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AFTER ACTION REPORT MUNITIONS RESPONSE ACTIVITIES FORMER GUN POSITIONS
41A AND 41B MCB CAMP LEJEUNE NC
5/1/2009
CH2M HILL

**After Action Report
Munitions Response Activities
Former Gun Positions 41A and 41B**

**Marine Corps Base Camp Lejeune
Jacksonville, North Carolina**

Task Order 009

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Prepared by



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Executive Summary

This After Action Report (AAR), required by the Naval Sea Systems Command (NAVSEA), guided by the Naval Ordnance Safety and Security Activity (NOSSA) Instruction 8020.15A (DoD, 2007), presents a summary of the intrusive investigation conducted at the munitions response site (MRS) Former Gun Positions 41A and 41B (hereafter referred to as the MRS), at Marine Corps Base (MCB) Camp Lejeune, North Carolina. This AAR has been prepared for Department of Defense Explosives Safety Board (DDESB) to serve as the basis for verifying response actions. The AAR documents that the explosives safety aspects of the response have been completed in accordance with the approved Explosives Safety Submission (ESS) (CH2M HILL, 2008c).

Due to historical activities at this MRS, a focused Preliminary Assessment/Site Inspection (PA/SI) was conducted in April 2008 in an effort to evaluate the presence of munitions and explosives of concern (MEC) and munitions constituents (MC). This Focused PA/SI included land surveying, vegetation clearing, digital geophysical mapping (DGM), and environmental sampling of soil and groundwater.

Further evaluation of potential subsurface MEC was conducted in September and October 2008 by intrusively investigating and removing the sources of geophysical anomalies that had been identified during the DGM effort. MEC detection techniques and response actions, along with appropriate quality control (QC)/quality assurance (QA) practices, were followed in accordance with the approved ESS and Work Plan (CH2M HILL, 2008a and 2008b). No MEC was identified at the MRS.

Soil and groundwater samples collected for MC analysis showed no detected concentrations of explosives residue or perchlorate; however, metals were detected in both soil and groundwater.

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Acronyms and Abbreviations

AAR	After Action Report
ASR	Archives Search Report
BIP	blow-in-place
CD	cultural debris
DDESB	Department of Defense Explosives Safety Board
DGM	digital geophysical mapping
DoD	Department of Defense
DPT	direct-push technology
EOD	Explosive Ordnance Disposal
ESS	Explosives Safety Submission
EZ	exclusion zone
ft	feet/foot
GPS	global positioning system
HE	high explosive
lb	pound
LUC	land use control
MARCORSYSCOM	Marine Corps System Command
MARSOC	Marine Special Operations Command
MC	munitions constituents
MCB	Marine Corps Base
MD	munitions debris
MEC	munitions and explosives of concern
mg/kg	milligram per kilogram
MI	multi-increment
MILCON	military construction
m	meter
mm	millimeter
MPPEH	material potentially presenting an explosive hazard
MR	munitions response
MRP	munitions response program
MRS	munitions response site
NAVSEA	Naval Sea Systems Command
NC SSL	North Carolina Soil Screening Level
NCDENR	North Carolina Department of Environment and Natural Resources
NCGWQS	North Carolina Groundwater Quality Standards
NOSSA	Naval Ordnance Safety and Security Activity

PA/SI	Preliminary Assessment/Site Inspection
PVC	polyvinyl chloride
QA	quality assurance
QC	quality control
RCRA	Resource Conservation and Recovery Act
RSL	regional screening level
RTK	real-time kinematic
SOP	standard operating procedure
SUXOS	Senior UXO Supervisor
USAE	USA Environmental, Inc.
USEPA	United States Environmental Protection Agency
UXB	UXB International, Inc.
UXO	unexploded ordnance
UXOQCS	UXO QC Specialist
WWII	World War II

SECTION 1

Munitions Response Site Land Use

The munitions response site (MRS) addressed by this After Action Report (AAR) comprises approximately 4 acres of a planned 1,244-acre military construction (MILCON) project for a Marine Special Operations Command (MARSOC) facility. Prior to the munitions response (MR) investigation activities addressed by this AAR, the majority of the MRS was heavily vegetated with trees and thick undergrowth and the rest of the MRS was a grassy field. Most of the vegetation was removed to conduct the Focused Preliminary Assessment/Site Inspection (PA/SI).

SECTION 2

Munitions Response Site Description

The MRS addressed by this AAR is referred to as Gun Positions 41A and 41B, but is also referred to as Archives Search Report (ASR) Site Number 2.212 in the *Range Identification and Preliminary Range Assessment* (USACE, 2001). The MRS is located in the Stone Bay area of MCB Camp Lejeune, east of Rifle Range Road.

An interview with the Base Safety Specialist (Richardson, 2007) indicated that the MRS was established during World War II (WW II) and was used during the Korean War era as a training ground. A Howitzer was positioned at the MRS and fired 105 millimeter (mm) and 155mm munitions into the K-2 and G-10 Impact Areas; other munitions suspected to be used at this MRS include 81mm, 120mm, 175mm, 4.2-inch, and 8-inch munitions (Redmond, 2007). Until recently, the MRS was used as an official training ground. No live fire training was conducted; however, blanks and pyrotechnics were used.

The topography of this MRS is gently sloping with little elevation relief. No water features are present within the MRS boundary; however there is an area of the MRS that often holds water for a short period of time after it rains. The MRS was heavily wooded prior to the performance of a Focused PA/SI in April 2008. At that time, the majority of the vegetation was removed.

Munitions Response Action Methodology

Detailed descriptions of the methods and technologies used in the munitions response action are described in the *Explosives Safety Submission for Munitions Response Activities at Former Gun Positions 41A and 41B, Proposed MARSOC MILCON Area, MCB Camp Lejeune, Jacksonville, North Carolina* (CH2M HILL, 2008c).

3.1 Geophysical Surveying

The primary objective of the geophysical activities at the MRS was to identify metallic anomalies that may represent subsurface munitions and explosives of concern (MEC) or material potentially presenting an explosive hazard (MPPEH). Geophysical mapping was conducted using digital methods where feasible. The digital method relied upon a Geonics EM61-MK2, a high-resolution time-domain electromagnetic instrument designed to detect, with high spatial resolution, shallow ferrous and non-ferrous metallic objects.

In areas of the MRS where digital geophysical mapping (DGM) could not be conducted due to site conditions, unexploded ordnance (UXO) technicians used Schonstedt GA-52Cx fluxgate gradiometers to identify metallic anomalies that may represent subsurface MEC or MPPEH during first phase of the intrusive investigation. The Schonstedt GA-52Cx is a handheld analog magnetometer which detects ferrous objects and ferromagnetic minerals.

The detection capabilities of geophysical instruments are dependent on the mass, depth, orientation, and shape of the ordnance items buried in the subsurface. In general, industry-acceptable digital geophysical instruments are able to detect ordnance items that fit within the following simplified expression for maximum depth of detection (DID FPRI-005-05):

$$\text{Detection Depth}^1 (\text{meters } [m]) = 11 \times \text{diameter (mm)} / 1000$$

3.2 Anomaly Reacquisition

A system of 50-m by 50-m operational grids was established across the MRS for DGM activities during the Focused PA/SI. However, an operational grid system was not reestablished prior to start of intrusive activities since the anomalies within the MRS had already been identified by name and survey coordinates during DGM activities. Thus, there was no need to resurvey and stake the operational grids prior to beginning the intrusive investigation.

A geophysicist with MR experience interpreted the DGM data and selected anomalies to be intrusively investigated. All geophysical anomalies identified for excavation were reacquired by a member of the intrusive investigation team to an exact location using real-time

¹ Detection depth is to the center of mass of the item.

kinematic (RTK) global positioning system (GPS) and an appropriate geophysical instrument.

Anomalies selected to be intrusively investigated using a Schonstedt GA-52Cx fluxgate gradiometers did not need to be reacquired because these anomalies were identified and intrusively investigated during Phase I of the intrusive investigation.

3.3 Excavation

Excavation of individual anomalies was performed by qualified UXO technicians using hand-excavation tools such as shovels, spades, trowels, and pry bars. The UXO team performing this work was composed of qualified UXO technicians supervised by a Technician III. The following basic technique was used for anomaly excavation:

- The UXO technician investigated within a 1-m radius of a flagged anomaly with an appropriate geophysical instrument.
- Until identified otherwise, the anomaly was assumed to be MEC. Excavation was initiated adjacent to the subsurface anomaly. The excavation continued until the excavated area reached a depth below the top of the anomaly as determined by frequent inspection with an appropriate geophysical instrument.
- Using progressively smaller and more delicate tools to remove the soil carefully, the excavation team expanded the sidewall to expose the metallic item for inspection and identification without moving or disturbing the item. If the UXO technician had excavated to a depth of 2 feet (ft) without exposing the item, the excavation stopped.
- If an item was exposed for inspection, the excavation team determined whether the item was MEC or MPPEH. If the item was MEC, it would have been blown-in-place (BIP). For items that were identified as MPPEH, the logic diagram presented in Section 8.4 of the Explosive Safety Submission (ESS) was followed.
- If the item was not suspected to be MEC or MPPEH, the source of the anomaly was removed to the scrap metal collection point for verification and certification.
- If the item was not suspected to be MEC or MPPEH, it was removed and the area was rechecked with the appropriate geophysical instrument to ensure that an item was not hidden beneath the item that was removed. The excavation team then annotated the results of the excavation on the dig sheet and moved on to the next geophysical anomaly.

3.4 Removal Verification

Intrusive investigation quality control (QC) inspections were performed by the UXO QC Specialist (UXOQCS) during the course of the fieldwork. Additional quality assurance (QA)/QC removal verification requirements were followed as required. The following is the procedure followed for quality control inspections of the intrusive investigation:

- After the dig team intrusively investigated an anomaly location, the hole was to be left open to the depth investigated and a polyvinyl chloride (PVC) flag placed in the hole or bent after the investigation was completed.
- The UXOQCS inspected at least 10 percent of the intrusively investigated anomaly locations using an appropriate geophysical instrument to determine whether all detectable metallic items within a 2-ft radius of the hole to a depth of 2 ft had been removed. The locations checked were distributed in a spatially representative sample across each grid.
- All holes related to intrusive investigations were filled back to original grade or covered before departing the project site each day.
- Inspected anomaly locations, along with results of the inspection and corrective actions planned in the event that the UXOQCS determines that inspection results require a change in intrusive team procedures or a re-performance of any work, were documented by the subcontractor and provided to the CH2M HILL site manager.
- Additional QC analyses of intrusive results versus original amplitude of geophysical anomalies were performed by the CH2M HILL Project Geophysicist within the project database. Anomaly locations that were determined to need re-investigation through this process were re-inspected.

3.5 Inspection and Segregation

The UXO team classified and segregated site debris into one of four categories in accordance with Naval Sea Systems Command (NAVSEA) OP 5 Volume 1, Seventh Revision.

A systematic approach was used for collecting, inspecting, and segregating site debris. The approach was designed so that materials would undergo a continual evaluation/inspection process from the time they were acquired until the time they were removed from the MRS. Site debris was classified and segregated into one of three categories:

- MEC
- MPPEH
- Non-MPPEH debris

Segregation procedures began at the time the metal item was discovered by the UXO Technician. At this point, the UXO Technician made a preliminary determination as to the classification of the item. If the item was identified as Non-MPPEH debris, it was placed at a temporary Non-MPPEH debris accumulation point located within the current operating grid. If the item was identified as MPPEH, it was placed in a temporary MPPEH accumulation point located within the current operating grid. If a MEC item had been discovered at this MRS it would have been handled as described in the excavation procedures.

MPPEH was inspected, certified, and verified in accordance with the requirements of Department of Defense (DoD) 4160.21-M (Chapter 4, Paragraph B) and OP 5 Volume 1 (Chapter 13-15) and demilitarized, if necessary, in accordance with DoD 4160.21-M-1.

CH2M HILL confirmed that MPPEH was properly inspected in accordance with the procedures in the Work Plan. Only UXO-qualified personnel performed these inspections. The UXO Tech III certified that the scrap metal was free of explosive hazards, and the Senior UXO Supervisor (SUXOS) (per OP 5, Section 13-15.7.2) verified the certification. The DD Form 1348-1A was used to document the certification/verification.

3.6 Limitations

The DGM investigation at the MRS was conducted using sound scientific principles, state-of-the-art technology and under strict quality control standards; however, there are inherent limitations to the detection capabilities of all DGM technologies available for detection of MEC in the subsurface and the possibility still exists that MEC items are present that could not be detected. Maximum detectable depths for MEC items vary based on site-specific and munitions-specific parameters, such as:

- Item orientation
- Site background/noise levels
- Masking effects from adjacent metallic items
- Item shape
- Magnetic conductivity of item materials
- Weathering effects on the magnetic conductivity of item materials

Given the variability in these parameters, a DGM survey can never provide absolute confidence that all MEC items have been detected.

3.7 Effects on Residual Risks

Although no populated areas are located directly within the MRS boundary, there are populated areas near the MRS that incurred the risk of being impacted by intrusive operations. However, no MEC was recovered so there was no impact to inhabitants of buildings from this intrusive investigation.

No sensitive habitats, threatened or endangered species, or cultural sites are known or suspected to be present on the MRS.

SECTION 4

Explosives Safety Submission Deviations

Following the required demilitarization, certification, and verification, all MD recovered during the first phase of the intrusive investigation was disposed of with the cultural debris (CD) at the Jacksonville Scrap Iron and Metal Co., in Jacksonville, North Carolina in accordance with Ordnance Publication (OP)-5 (NAVSEA, 2004). The MD for Phase I was not smelted as discussed in the ESS because of the small amount of MD identified. The MD sent to the Jacksonville Scrap Iron and Metal Co. consisted of the items listed below; none of these items contained high explosive (HE).

- Ten Signal, Illum, Ground, Cluster, M125A1, expended
- One M18 Grenade, smoke, expended
- Two grenade spoons

SECTION 5

Excluded Munitions Response Areas

The intrusive investigation activities were conducted within 100 percent of the MRS.

Anomaly Recovery and Disposition

6.1 Intrusive Investigation

The intrusive investigation at this MRS was conducted in two phases. Phase I was conducted by UXB International, Inc. (UXB) and occurred between September 8, 2008, and September 16, 2008. Phase II was conducted by USA Environmental, Inc. (USAE) and occurred between October 13, 2008, and October 27, 2008. All 895 geophysical anomaly locations identified by the DGM activities were intrusively investigated. In addition, the five anomaly locations that were identified during Phase I using a Schonstedt GA-52Cx fluxgate gradiometer in the area of the MRS where DGM could not be conducted were also intrusively investigated. All intrusive investigation locations are shown on Figure 1.

No MEC was identified from the intrusive investigation at this MRS. All items found were either munitions debris (MD) or cultural debris (CD). The MD and CD recovered during the intrusive investigation are listed in Appendix A, Tables A-1 through A-3. These tables document anomaly source materials in terms of quantity, type, condition, and depth.

6.2 Recovered MD

The following MD items were recovered from this MRS during the intrusive investigation:

TABLE 6-1
Recovered MD

Item	Quantity	Investigation
Signal, Illum, Ground, Cluster, M125A1, expended	10	Phase I
M18 Grenade, smoke, expended	1	Phase I
Grenade spoon	2	Phase I
Grenade spoon pieces	1	Phase I
M-22 Ground Signal Flares, expended	2	Phase II
M18 Grenade, Smoke, with M201A1 Fuze, expended	1	Phase II
MK1 Grenades, Practice, no Fuze, expended	3	Phase II
40mm Flare Cartridge, expended	2	Phase II
M583A1 40mm Flares, expended	2	Phase II
M49A1 Trip Fuze, expended	1	Phase II
Trip Flare, expended	1	Phase II
Flare Cartridge, expended	1	Phase II
M159 Flare, expended	1	Phase II

TABLE 6-1
Recovered MD

Item	Quantity	Investigation
Grenade Fuzes, expended	3	Phase II
M49 Trip Flare mounting brackets	3	Phase II
M-22 ground signal flare tube	2	Phase II
Grenade spoon	4	Phase II
Grenade pin	1	Phase II
Smoke Grenade components	7	Phase II

6.3 MD Disposition

Following the required demilitarization, certification, and verification, all MD recovered during Phase I was disposed of with the CD at the Jacksonville Scrap Iron and Metal Co., in Jacksonville, North Carolina in accordance with Ordnance Publication (OP)-5 (NAVSEA, 2004). The MD for Phase I was not smelted as discussed in the ESS because of the small amount of MD identified. A copy of the DD Form 1348-1A that was completed for the 546 pounds (lbs) of combined MD and CD that was disposed of at the Jacksonville Scrap Iron and Metal Co. during Phase I is provided in Appendix B.

For Phase II, after certifications and verifications, the recovered MD was disposed of at Bedford Recycling, Inc. in Bedford, Indiana. The Phase II MD was smelted at the Bedford Recycling, Inc. under a joint venture with Demil Metals, Inc. A copy of the DD Form 1348-1A that was completed for the 10 lbs of MD sent to Bedford Recycling, Inc. is in Appendix B. A copy of the documentation received from Demil Metals, Inc. verifying that the Phase II MD was received by Bedford Recycling, Inc. and that it was smelted is provided in Appendix C.

6.4 Small Arms Ammunition Recovery and Disposition

During both Phase I and Phase II of the intrusive investigation, small arms ammunition was recovered from the MRS. All small arms ammunition was turned over to the Marine Corps Base (MCB) Camp Lejeune Weapons Training Battalion.

6.5 Cultural Debris Disposition

The CD recovered during Phase I and Phase II was disposed of at the Jacksonville Scrap Iron and Metal Co. Copies of the DD Form 1348-1As that were completed for the CD are provided in Appendix B.

Quality Assurance and Quality Control Assessments

A QA/QC Plan was provided in the approved ESS for this intrusive investigation. The QA/QC Plan describes quality documentation, personnel qualifications, QC implementation (including audit and corrective/preventative action procedures), and QA implementation. The QA/QC reports from the intrusive investigation are provided in Appendix D.

Daily QA/QC checks were performed by CH2M HILL and its subcontractor. CH2M HILL maintained daily QC/QA reports for each day of intrusive work that was performed, along with follow-up checklists confirming the work was performed by qualified personnel and according to standard operating procedures and in accordance with the Work Plan. All daily QA/QC reports were reviewed by the CH2M HILL site manager.

CH2M HILL controlled the entire MR project process, documentation, and QC by maintaining reports on:

- Project Information (e.g., personnel, teams, instrument serial numbers, grid IDs, locations)
- Field Team Leader Notes (e.g., safety meetings, logbooks, field requests to management)
- DGM and UXO Team notes (e.g., grids, files, personnel, methods, instruments, GPS coordinates, descriptions of items found)
- DGM Data Processing Notes and Delivery Data (e.g., file names, processing performed, QC of data, delivery dates)
- Grid Statuses (e.g., activities performed by grid and by area, percents, quantities complete or remaining)
- QC (e.g., QC on notes, processing, data, comparison of DGM Results to intrusive results and field activities)

SECTION 8

Institutional Controls

There are currently no land use controls (LUCs) in place for this MRS.

Provisions for Long-term Management

Activities performed at the MRS included performing an intrusive investigation across 100 percent of the 4-acre MRS. The intrusive investigation was performed to significantly reduce the risk of encountering MEC during any grading and excavation activities. However, because it is not possible to provide 100 percent assurance that all MEC items have been removed, it would be prudent to provide "3R" (Recognize, Retreat, Report) training to all workers who will be onsite during grading and excavation activities and to provide on-call support from MCB Camp Lejeune Explosive Ordnance Disposal (EOD) or a qualified UXO contractor for inspection and disposal of suspected MEC that may be unearthed during construction activities.

This MRS is within the proposed MILCON for the MARSOC facility. At the conclusion of construction activities, most of the MRS will be covered by buildings and pavement, and used for industrial activities. Therefore, no recurring reviews are planned for this MRS.

SECTION 10

Exclusion Zone/Site Approval Cancellations

We hereby request that exclusion zones (EZs) and the Site Approval in the ESS be cancelled as no further MR activities are planned at this MRS.

SECTION 11

Maps

Figure 1 shows the boundaries of the MRS and illustrates the locations of the anomalies that were intrusively investigated.

Figure 2 shows the Munitions Constituents (MC) sampling locations.

SECTION 12

Subsurface Geophysical Anomalies

Figure 1 depicts the locations of the geophysical anomalies that were identified and intrusively investigated at this MRS.

SECTION 13

Dig Sheets

Dig sheet information is summarized in Appendix A.

SECTION 14

Photographs

A photograph of some of the recovered MD is provided in Appendix E.

Laboratory Analytical Results

To evaluate if historical activities may have resulted in munitions constituent (MC) contamination at this MRS, soil and groundwater samples were collected. The analytical results for samples collected at this MRS can be found in Appendix F. Explosives residues and perchlorate were not detected in any of the soil or groundwater samples. Metals were detected in both soil and groundwater. A summary of the samples collected and the analytical results are discussed below.

The laboratory analytical results for this MRS will also be documented in a PA/SI Report which will be submitted to the North Carolina Department of Environment and Natural Resources (NCDENR) and USEPA.

15.1 Surface Soil

Three composite surface soil samples were collected from each of the four decision units for a total of 12 samples (designated as ASR2.212-GP41-DU01-SS[01,02,03] through ASR2.212-GP41-DU04-SS[01,02,03]). The surface soil samples were collected from a depth of 0 to 2 inches using the multi-increment (MI) sampling procedure; this approach is described in the Systematic Random Multi-Increment Sampling standard operating procedure (SOP) in Appendix C of the Munitions Response Program (MRP) Master Project Plans (CH2M HILL, 2008a). The dimensions of each decision unit are approximately 64 m x 64 m. Each composite surface soil sample consisted of a minimum of 30 sample increments collected from an individual decision unit, using the previously referenced MI sampling procedure.

All surface soil samples were analyzed for explosives residues (SW-846 United States Environmental Protection Agency [USEPA] Method 8330), perchlorate (USEPA Method 6850), and Resource Conservation and Recovery Action (RCRA) metals (SW-846 USEPA Method 6010B/7000).

Constituents concentrations detected in surface soil were compared to the adjusted USEPA residential and industrial soil Regional Screening Levels (RSLs) (USEPA, 2008) and the North Carolina Soil Screening Levels (NC SSLs) (NCDENR, 2005a).

Arsenic and mercury were the only constituents that were detected above screening criteria. Arsenic exceeded the adjusted residential soil RSL (0.39 milligrams per kilogram [mg/kg]) in two samples from decision unit ASR2.212-GP41-DU03. Mercury exceeded the NC SSL (0.015 mg/kg) in at least one samples from decision units ASR2.212-GP41-DU02, -DU03, and -DU04.

15.2 Subsurface Soil

A direct-push technology (DPT) drill rig was used to collect a total of four subsurface soil samples (designated ASR2.212-GP41-IS01 through ASR2.212-GP41-IS04). The samples were

analyzed for explosives residues by USEPA Method 8330, RCRA metals by USEPA Method 6010B, and perchlorate by USEPA Method 6850. Subsurface soil samples were collected from just above the water table at depths ranging from 1 to 3 ft below ground surface.

Constituents concentrations detected in subsurface soil were compared to the same criteria as surface soil. Arsenic was the only constituent that was detected at concentrations above screening criteria; it exceeded the adjusted residential soil RSL (0.39 mg/kg) at sample locations ASR2.212-GP41-IS01 and ASR2.212-GP41-IS03.

15.3 Groundwater

A total of four groundwater samples were collected at this MRS (designated as ASR2.212-GP41-TW01 through ASR2.212-GP41-TW04). Groundwater samples were analyzed for explosives residues by USEPA Method 8330, total and dissolved RCRA metals by USEPA Method 6010B, and perchlorate by USEPA Method 6850.

Constituents concentrations detected in groundwater were compared to the adjusted USEPA tap water RSLs (USEPA, 2008) and the North Carolina Groundwater Quality Standards (NCGWQS) (NCDENR, 2005b). Arsenic, chromium, and lead were detected at concentrations above screening criteria. Arsenic was detected at concentrations above the adjusted USEPA tap water RSL (0.045 µg/L) at sample locations ASR2.212-GP41-TW02 and ASR2.212-GP41-TW04. Chromium was detected at concentrations above the NCGWQS (50 µg/L) at sample location ASR2.212-GP41-TW03. Lead was detected at concentrations above the NCGWQS (15 µg/L) at sample locations ASR2.212-GP41-TW02, -TW03, and -TW04.

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The following references were consulted during the preparation of this AAR. Not all sources are cited in the text.

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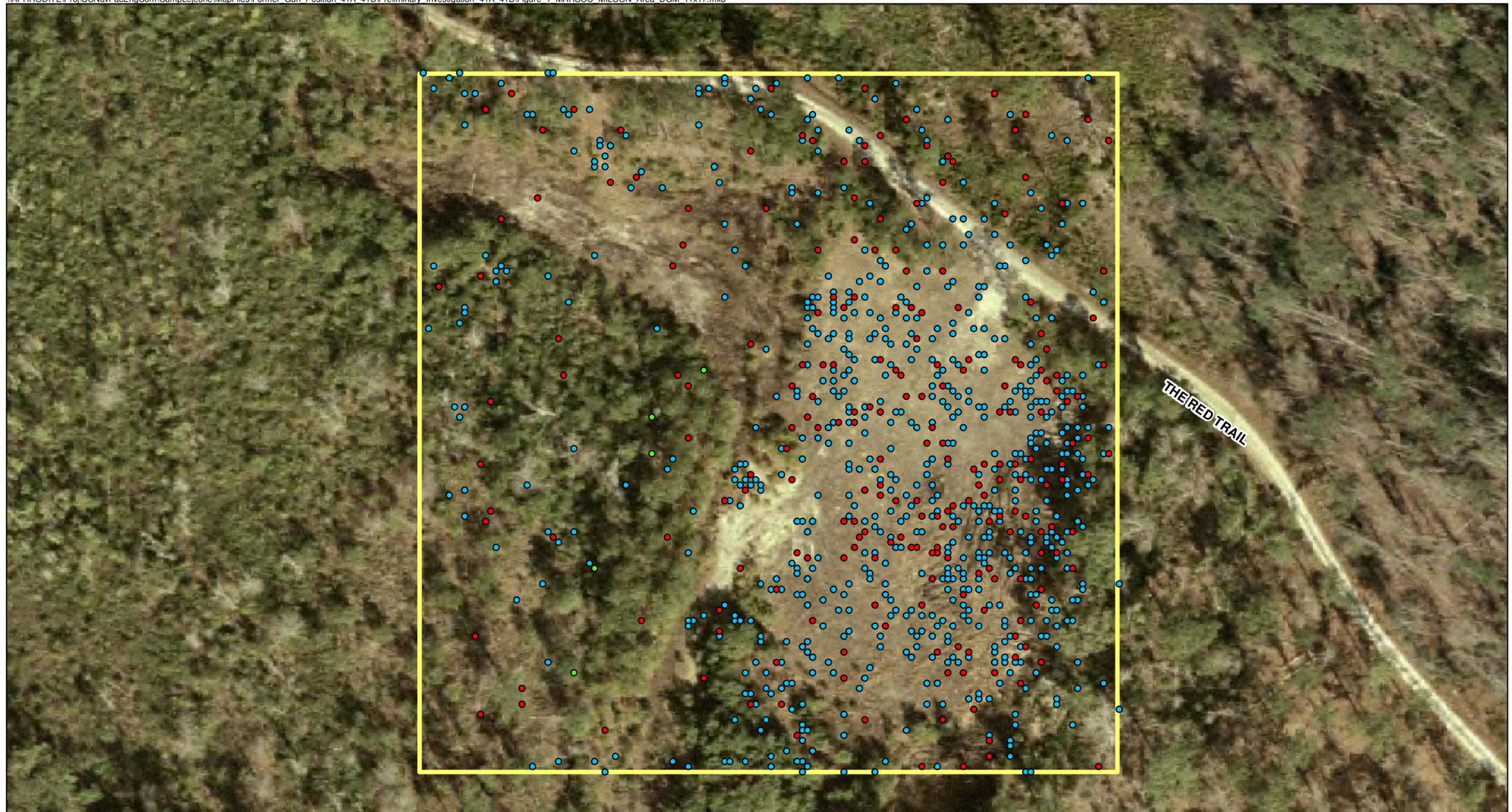
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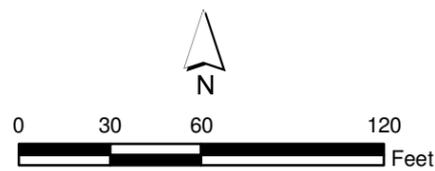
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- Legend**
- Phase I DGM Intrusive Locations
 - Phase I Magnetometer Locations
 - Phase II DGM Intrusive Locations
 - Former Gun Positions 41A & 41B



1 inch = 60 feet

Figure 1
Intrusive Investigation Locations
Former Gun Positions 41A and 41B
MCB Camp Lejeune
North Carolina



- Legend**
- Groundwater Sample Locations
 - ⊕ Subsurface Soil Sample Locations
 - ⊕ Subsurface Soil/ Groundwater Sample Locations
 - Surface Water Course Centerline
 - Road Centerline
 - Decision Units
 - ▭ Former Gun Positions 41A & 41B

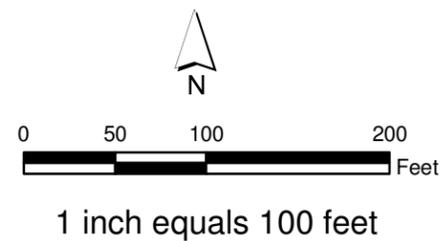


Figure 2
Environmental Sampling Locations
Former Gun Positions 41A & 41B
MCB Camp Lejeune
North Carolina

Appendix A

Dig Sheets

TABLE A-1
Phase I DGM Intrusive Investigation Results
Former Gun Positions 41A and 41B
MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Class	Quantity	Depth (inches)	Comment
1	C3J1C0	09/09/08	C3J1C0-00001	275337.7	3829456.2	227.7	Cultural Debris	1	6	
2	C3J1C0	09/16/08	C3J1C0-00002	275349	3829452.4	92.6	Cultural Debris	1	0	Scrap
3	C3J1C0	09/16/08	C3J1C0-00003	275343.2	3829458.8	16.7	Munitions Debris	1	0	Signal, Illum, Ground, Cluster, M125A1, expended
4	C3J1C7	09/11/08	C3J1C7-00001	275336.8	3829340.4	64.2	Cultural Debris	1	0	
5	C3J1C7	09/16/08	C3J1C7-00002	275345.3	3829342.1	26.6	Munitions Debris	1	0	Signal, Illum, Ground, Cluster, M125A1, expended
6	C3J1C7	09/16/08	C3J1C7-00003	275345	3829344.7	22.6	Cultural Debris	1	0	Scrap
7	C3J1C8		C3J1C8-00001	275339.1	3829378.9	112.9		0	0	See footnote
8	C3J1C8	09/10/08	C3J1C8-00002	275338.3	3829376.6	23.8	Cultural Debris	1	0	
9	C3J1C8	09/16/08	C3J1C8-00003	275336.8	3829388.2	23.5	Cultural Debris	1	0	Scrap
10	C3J1C8		C3J1C8-00004	275339.3	3829399.9	14.4		0	0	See footnote
11	C3J1C8	09/16/08	C3J1C8-00006	275335.9	3829354.5	3.7	Cultural Debris	1	0	Scrap
12	C3J1C9		C3J1C9-00001	275348.1	3829439.4	116.8		0	0	See footnote
13	C3J1C9	09/16/08	C3J1C9-00002	275341	3829434.6	112.5	Cultural Debris	1	0	Tent Stake
14	C3J1C9	09/10/08	C3J1C9-00004	275336.7	3829423.5	6.9	Cultural Debris	1	8	
15	C3J1C9		C3J1C9-00008	275329	3829422.2	3.5		0	0	See footnote
16	C3J1D0	09/09/08	C3J1D0-00001	275363.6	3829452.4	366.3	Cultural Debris	1	2	
17	C3J1D0	09/09/08	C3J1D0-00002	275399.2	3829451.1	203.1	Cultural Debris	2	4	
18	C3J1D0	09/09/08	C3J1D0-00003	275354.9	3829456.4	44.3	Cultural Debris	1	2	15 ft cable w/eye
19	C3J1D0	09/09/08	C3J1D0-00004	275393	3829459.8	26.5	Cultural Debris	1	4	
20	C3J1D7	09/11/08	C3J1D7-00003	275388.8	3829342	326.2	Cultural Debris	11	2	trash pit >24 inches
21	C3J1D7	09/11/08	C3J1D7-00004	275394.2	3829349.6	88.6	Cultural Debris	2	6	
22	C3J1D7	09/11/08	C3J1D7-00006	275360.8	3829336.9	38.2	Cultural Debris	1	0	survey pin
23	C3J1D7	09/11/08	C3J1D7-00007	275394.9	3829342.1	20.2	Cultural Debris	1	0	
24	C3J1D7	09/11/08	C3J1D7-00008	275397.6	3829335.8	17.1	Cultural Debris	1	0	
25	C3J1D7	09/11/08	C3J1D7-00009	275379.7	3829346.6	15.3	Cultural Debris	1	1	
26	C3J1D8	09/11/08	C3J1D8-00001	275351.4	3829374.4	1229.2	Cultural Debris	1	0	
27	C3J1D8	09/11/08	C3J1D8-00003	275387.6	3829382.8	146.8	Cultural Debris	10	24	trash pit > 24 inches
28	C3J1D8	09/11/08	C3J1D8-00004	275384	3829381.4	122.9	Cultural Debris	20	24	trash pit > 24 inches
29	C3J1D8	09/10/08	C3J1D8-00006	275397	3829395.4	96.8	Cultural Debris	1	6	concrete
30	C3J1D8	09/11/08	C3J1D8-00008	275397	3829385.4	49.3	Cultural Debris	1	3	
31	C3J1D8	09/15/08	C3J1D8-00010	275377.3	3829392.6	45.9	Cultural Debris	1	1	
32	C3J1D8	09/11/08	C3J1D8-00011	275393.8	3829364.2	45.8	Cultural Debris	1	3	
33	C3J1D8	09/11/08	C3J1D8-00013	275389.4	3829385.6	41	Cultural Debris	2	2	
34	C3J1D8	09/11/08	C3J1D8-00016	275396.2	3829391.2	35.3	Cultural Debris	1	12	
35	C3J1D8	09/16/08	C3J1D8-00018	275386.7	3829367.6	27.5	Cultural Debris	1	0	Tent Stake

TABLE A-1

Phase I DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Class	Quantity	Depth (inches)	Comment
36	C3J1D8	09/11/08	C3J1D8-00019	275397.6	3829370.9	27	Cultural Debris	1	0	concrete
37	C3J1D8	09/11/08	C3J1D8-00020	275383.4	3829356.2	24.9	Cultural Debris	1	0	
38	C3J1D8	09/11/08	C3J1D8-00022	275383.4	3829359.8	22.3	Cultural Debris	5	3	
39	C3J1D8	09/16/08	C3J1D8-00026	275372.6	3829373.9	18.5	Cultural Debris	1	0	Bar
40	C3J1D8	09/16/08	C3J1D8-00074	275367.5	3829357.8	3	No Find	0	0	No Find
41	C3J1D9	09/09/08	C3J1D9-00001	275376	3829429.8	430	Cultural Debris	1	1	
42	C3J1D9	09/15/08	C3J1D9-00002	275375.1	3829404.8	66.6	Cultural Debris	1	1	
43	C3J1D9	09/09/08	C3J1D9-00003	275399.2	3829406.9	46.6	Cultural Debris	1	2	
44	C3J1D9	09/15/08	C3J1D9-00004	275376.6	3829402.8	40.6	Cultural Debris	1	0	survey point
45	C3J1D9	09/09/08	C3J1D9-00005	275391.6	3829436.6	23.2	Cultural Debris	1	6	
46	C3J1D9	09/09/08	C3J1D9-00006	275397	3829403.2	19.8	Cultural Debris	1	3	
47	C3J1D9	09/15/08	C3J1D9-00007	275374.2	3829426.4	17.1	Munitions Debris	1	12	Signal, Illum, Ground, Cluster, M125A1, expended
48	C3J1D9	09/09/08	C3J1D9-00008	275367.4	3829443.4	14.5	Cultural Debris	1	1.5	
49	C3J1D9	09/16/08	C3J1D9-00011	275351.8	3829411.7	8.8	Cultural Debris	1	0	Can
50	C3J1D9	09/09/08	C3J1D9-00012	275377.4	3829436.8	8.7	Cultural Debris	2	2	
51	C3J1D9	09/10/08	C3J1D9-00023	275353	3829404.6	3.8	Cultural Debris	1	4	
52	C3J1D9	09/09/08	C3J1D9-00027	275362	3829442.4	3.4	Cultural Debris	1	6	
53	C3J1D9	09/09/08	C3J1D9-00030	275388.6	3829448.2	3.3	Small Arms Ammunition	8	1	7.62 linked blanks
54	C3J1D9	09/16/08	C3J1D9-00044	275389.4	3829411	3	Cultural Debris	1	0	Can
55	C3J1E0	09/09/08	C3J1E0-00001	275413.8	3829451.4	335	Cultural Debris	1	3	
56	C3J1E0	09/09/08	C3J1E0-00002	275401	3829450.1	200.3	Cultural Debris	1	4	
57	C3J1E0	09/09/08	C3J1E0-00003	275436	3829458.8	153	Cultural Debris	1	4	
58	C3J1E0	09/09/08	C3J1E0-00005	275441.9	3829454.7	34.5	Cultural Debris	1	6	
59	C3J1E0	09/09/08	C3J1E0-00007	275440.3	3829451.5	20.3	Cultural Debris	1	1	
60	C3J1E0	09/09/08	C3J1E0-00008	275410.7	3829460.1	19.2	Cultural Debris	1	1	
61	C3J1E0	09/16/08	C3J1E0-00015	275418.9	3829454.4	4.7	Cultural Debris	1	0	Stake
62	C3J1E7		C3J1E7-00001	275434.6	3829334.6	643.1		0	0	See footnote
63	C3J1E7	09/11/08	C3J1E7-00002	275445	3829349.7	472.5	Cultural Debris	1	1	
64	C3J1E7	09/11/08	C3J1E7-00003	275427.4	3829347.8	368.3	Seed	1	2	seed item
65	C3J1E7	09/11/08	C3J1E7-00004	275430.4	3829330.4	276.1	Cultural Debris	1	0	
66	C3J1E7	09/11/08	C3J1E7-00005	275430.2	3829347.7	67.9	Cultural Debris	1	1	
67	C3J1E7	09/11/08	C3J1E7-00006	275431.6	3829340.8	56.9	Cultural Debris	1	0	survey pin
68	C3J1E7	09/11/08	C3J1E7-00007	275434.6	3829331.6	49.4	Cultural Debris	1	6	
69	C3J1E7	09/11/08	C3J1E7-00008	275435.6	3829348.4	49.1	Cultural Debris	1	3	
70	C3J1E7	09/16/08	C3J1E7-00009	275411.3	3829338.8	39.8	Cultural Debris	1	0	Tent Stake

TABLE A-1

Phase I DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Class	Quantity	Depth (inches)	Comment
71	C3J1E7	09/11/08	C3J1E7-00010	275407.4	3829347.2	33.7	Cultural Debris	1	1	
72	C3J1E7	09/11/08	C3J1E7-00012	275440.6	3829346.2	20.6	Cultural Debris	9	12	
73	C3J1E7	09/11/08	C3J1E7-00015	275421.5	3829330.2	16.5	Cultural Debris	1	0	
74	C3J1E7	09/11/08	C3J1E7-00054	275425.6	3829338.6	3	Cultural Debris	2	6	
75	C3J1E8	09/15/08	C3J1E8-00002	275434.8	3829377.2	2684.8	Cultural Debris	1	0	
76	C3J1E8	09/10/08	C3J1E8-00003	275402.4	3829395.2	1261.9	Cultural Debris	1	0	concrete
77	C3J1E8	09/11/08	C3J1E8-00004	275418.2	3829374	976	Cultural Debris	3	24	trash > 24 inches
78	C3J1E8	09/10/08	C3J1E8-00005	275434.2	3829387.6	898.1	Cultural Debris	5	24	trash pit
79	C3J1E8	09/10/08	C3J1E8-00006	275412	3829399.4	810.1	Cultural Debris	1	24	
80	C3J1E8	09/11/08	C3J1E8-00009	275413.6	3829384.4	581.4	Cultural Debris	1	12	same hit as E8-40 com cable
81	C3J1E8	09/16/08	C3J1E8-00010	275442.4	3829378	423.6	Cultural Debris	1	0	Tent Stakes & Log with metal > 24 inches
82	C3J1E8	09/16/08	C3J1E8-00011	275437.2	3829378.2	399.4	Cultural Debris	1	0	Poles
83	C3J1E8	09/10/08	C3J1E8-00012	275437.2	3829385.4	377.6	Cultural Debris	1	6	
84	C3J1E8	09/16/08	C3J1E8-00014	275438.6	3829374.8	330.4	Cultural Debris	1	0	Poles
85	C3J1E8	09/15/08	C3J1E8-00015	275446.5	3829376.4	261	Cultural Debris	3	6	concrete
86	C3J1E8	09/10/08	C3J1E8-00017	275409	3829395.6	249.3	Cultural Debris	1	3	
87	C3J1E8	09/11/08	C3J1E8-00019	275416.6	3829381.4	239.6	Cultural Debris	1	18	
88	C3J1E8	09/15/08	C3J1E8-00020	275444.9	3829363.9	208.9	Cultural Debris	1	0	
89	C3J1E8	09/15/08	C3J1E8-00021	275439.9	3829378.9	202.9	Cultural Debris	1	6	
90	C3J1E8	09/10/08	C3J1E8-00022	275425.6	3829392.4	190.1	Cultural Debris	1	3	
91	C3J1E8	09/10/08	C3J1E8-00024	275431.2	3829381.4	179.5	Cultural Debris	1	6	
92	C3J1E8	09/10/08	C3J1E8-00026	275436.6	3829398.4	174.1	Cultural Debris	1	18	
93	C3J1E8	09/10/08	C3J1E8-00027	275437	3829387.5	154.8	Cultural Debris	4	8	
94	C3J1E8	09/11/08	C3J1E8-00028	275434.2	3829360.2	149.4	Cultural Debris	1	4	
95	C3J1E8	09/11/08	C3J1E8-00029	275440.6	3829365.6	131.5	Cultural Debris	1	0.25	
96	C3J1E8	09/11/08	C3J1E8-00030	275413.6	3829388.8	121.3	Cultural Debris	1	8	
97	C3J1E8	09/11/08	C3J1E8-00031	275409.2	3829377.2	113.3	Cultural Debris	1	3	
98	C3J1E8		C3J1E8-00032	275410.6	3829383.4	113.3		0	0	See footnote
99	C3J1E8	09/11/08	C3J1E8-00033	275415.2	3829357	92.6	Cultural Debris	1	24	
100	C3J1E8	09/15/08	C3J1E8-00035	275425	3829377.8	69.6	Cultural Debris	1	4	
101	C3J1E8	09/10/08	C3J1E8-00036	275426.6	3829389.4	68.7	Cultural Debris	1	1	survey traverse point
102	C3J1E8	09/15/08	C3J1E8-00038	275425.8	3829376.4	65.7	Cultural Debris	4	6	
103	C3J1E8	09/11/08	C3J1E8-00040	275413.5	3829382	64.2	Cultural Debris	1	12	same hit as E8-09 com cable and wire rope > 24 inches
104	C3J1E8	09/11/08	C3J1E8-00041	275413	3829370	62.8	Cultural Debris	1	2	
105	C3J1E8	09/11/08	C3J1E8-00042	275439.6	3829355.4	61	Cultural Debris	1	0	concrete

TABLE A-1

Phase I DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Class	Quantity	Depth (inches)	Comment
106	C3J1E8	09/11/08	C3J1E8-00043	275421.4	3829371.8	60.4	Cultural Debris	1	2	
107	C3J1E8	09/10/08	C3J1E8-00045	275433.6	3829382	59.3	Cultural Debris	2	6	
108	C3J1E8	09/15/08	C3J1E8-00046	275439.6	3829351.1	58.8	Cultural Debris	2	12	
109	C3J1E8	09/10/08	C3J1E8-00048	275400.1	3829397	57	Cultural Debris	1	6	
110	C3J1E8	09/16/08	C3J1E8-00049	275435	3829367.8	56.8	Cultural Debris	1	0	Pipe
111	C3J1E8	09/16/08	C3J1E8-00052	275419.8	3829371.8	53.6	Cultural Debris	1	0	Scrap > 24 inches
112	C3J1E8	09/16/08	C3J1E8-00053	275409	3829398	53.5	Cultural Debris	1	0	Scrap
113	C3J1E8	09/10/08	C3J1E8-00054	275428	3829380.4	52.9	Munitions Debris	3	6	genade spoon / trash
114	C3J1E8	09/16/08	C3J1E8-00057	275431.4	3829351.8	48.2	Cultural Debris	1	0	Tent Stake
115	C3J1E8	09/16/08	C3J1E8-00059	275448.3	3829371.2	47.4	Cultural Debris	1	0	Fence Post
116	C3J1E8	09/15/08	C3J1E8-00060	275428.2	3829375.6	46.2	Cultural Debris	1	3	
117	C3J1E8	09/11/08	C3J1E8-00061	275426.6	3829369.6	45.7	Cultural Debris	1	3	
118	C3J1E8	09/16/08	C3J1E8-00062	275441	3829385.4	44.9	Munitions Debris	1	0	Signal, Illum, Ground, Cluster, M125A1, expended
119	C3J1E8	09/11/08	C3J1E8-00064	275442.4	3829353.1	43.6	Cultural Debris	1	12	
120	C3J1E8	09/11/08	C3J1E8-00065	275441	3829357.8	43.1	Cultural Debris	1	2	concrete
121	C3J1E8	09/11/08	C3J1E8-00066	275416	3829372.6	42.7	Cultural Debris	1	0	concrete
122	C3J1E8	09/10/08	C3J1E8-00067	275444.6	3829398.3	42.2	Cultural Debris	1	6	concrete
123	C3J1E8	09/10/08	C3J1E8-00068	275422.8	3829391.6	41	Cultural Debris	1	3	
124	C3J1E8	09/16/08	C3J1E8-00069	275440.2	3829388.2	38.6	No Find	0	0	No Find
125	C3J1E8	09/10/08	C3J1E8-00070	275423.8	3829395.2	38.4	Cultural Debris	1	12	
126	C3J1E8	09/11/08	C3J1E8-00071	275436.4	3829366	38	Cultural Debris	1	5	
127	C3J1E8	09/10/08	C3J1E8-00073	275438.8	3829398.4	35.5	Cultural Debris	5	18	
128	C3J1E8	09/11/08	C3J1E8-00074	275422.3	3829360.6	35.4	Cultural Debris	1	10	
129	C3J1E8	09/11/08	C3J1E8-00075	275432.6	3829367	34.5	Cultural Debris	2	6	
130	C3J1E8	09/11/08	C3J1E8-00076	275425.2	3829371.4	33.6	No Find	0	24	> 24 inches
131	C3J1E8	09/10/08	C3J1E8-00077	275449.2	3829388.4	32.5	Cultural Debris	2	6	concrete slab
132	C3J1E8	09/15/08	C3J1E8-00079	275444.7	3829370.5	31.7	Cultural Debris	3	6	
133	C3J1E8	09/16/08	C3J1E8-00080	275432.7	3829383.9	31.7	Cultural Debris	1	0	Tent Stake
134	C3J1E8	09/11/08	C3J1E8-00081	275430.4	3829362.8	31.4	Cultural Debris	1	3	
135	C3J1E8	09/10/08	C3J1E8-00083	275448.6	3829384.9	30.7	Cultural Debris	1	12	
136	C3J1E8	09/16/08	C3J1E8-00084	275445.6	3829383.6	30.6	Cultural Debris	1	0	Spike
137	C3J1E8	09/11/08	C3J1E8-00086	275429.3	3829352.7	30.3	Cultural Debris	1	3	
138	C3J1E8	09/11/08	C3J1E8-00087	275424.9	3829372.4	29.9	No Find	0	24	> 24 inches
139	C3J1E8	09/11/08	C3J1E8-00088	275423.6	3829371.2	29	Cultural Debris	1	4	
140	C3J1E8	09/15/08	C3J1E8-00089	275444.8	3829374.6	28.8	Cultural Debris	1	6	
141	C3J1E8	09/11/08	C3J1E8-00091	275421.8	3829378	26.8	Cultural Debris	1	1	concrete

TABLE A-1

Phase I DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Class	Quantity	Depth (inches)	Comment
142	C3J1E8	09/11/08	C3J1E8-00092	275424.4	3829366.4	26.7	Cultural Debris	1	2	
143	C3J1E8	09/11/08	C3J1E8-00094	275400.1	3829369.6	24.9	Cultural Debris	1	0	survey point
144	C3J1E8	09/15/08	C3J1E8-00095	275443.6	3829360.6	24	Cultural Debris	1	3	
145	C3J1E8	09/10/08	C3J1E8-00098	275431.9	3829387.4	22.8	Cultural Debris	1	6	
146	C3J1E8	09/11/08	C3J1E8-00099	275425	3829351.8	22.6	Cultural Debris	1	0	survey pin
147	C3J1E8	09/16/08	C3J1E8-00101	275409.9	3829374.3	22.2	No Find	0	0	No Find
148	C3J1E8	09/11/08	C3J1E8-00102	275409.1	3829371.9	21.8	Cultural Debris	4	8	
149	C3J1E8	09/10/08	C3J1E8-00104	275406	3829395.6	21.5	Cultural Debris	1	4	
150	C3J1E8	09/11/08	C3J1E8-00106	275411.4	3829374.8	20.5	Munitions Debris	3	12	MD and scrap
151	C3J1E8	09/11/08	C3J1E8-00107	275406.7	3829376.8	20.4	Cultural Debris	3	3	
152	C3J1E8	09/15/08	C3J1E8-00108	275426.5	3829378.9	20.3	Cultural Debris	2	4	
153	C3J1E8	09/16/08	C3J1E8-00115	275414.4	3829397.8	18.8	Cultural Debris	1	0	Scrap
154	C3J1E8	09/16/08	C3J1E8-00148	275413	3829360.8	12.5	Cultural Debris	1	0	Melted Aluminum
155	C3J1E8	09/10/08	C3J1E8-00151	275442.8	3829389.4	12.3	Cultural Debris	1	6	
156	C3J1E8	09/11/08	C3J1E8-00178	275401.4	3829358	9.3	Cultural Debris	2	8	
157	C3J1E8	09/16/08	C3J1E8-00256	275421.2	3829381.4	4.8	No Find	0	0	No Find
158	C3J1E8	09/11/08	C3J1E8-00289	275406.8	3829369.8	3.7	Cultural Debris	2	8	
159	C3J1E8	09/16/08	C3J1E8-00328	275406.8	3829352.2	3	No Find	0	0	No Find
160	C3J1E9	09/10/08	C3J1E9-00001	275406.8	3829418.4	3587.1	Cultural Debris	1	0	
161	C3J1E9	09/10/08	C3J1E9-00002	275402.2	3829416.8	2146.8	Cultural Debris	1	0	
162	C3J1E9	09/09/08	C3J1E9-00004	275417.2	3829429.1	485.3	Cultural Debris	1	2	
163	C3J1E9	09/10/08	C3J1E9-00005	275445.4	3829406.2	374.6	Cultural Debris	1	2	
164	C3J1E9	09/10/08	C3J1E9-00007	275422.2	3829416.6	336.9	Cultural Debris	1	1	
165	C3J1E9	09/10/08	C3J1E9-00009	275438	3829403	233.8	Cultural Debris	1	4	
166	C3J1E9	09/10/08	C3J1E9-00011	275445.6	3829403.8	182.1	Cultural Debris	1	0	concrete
167	C3J1E9	09/10/08	C3J1E9-00012	275421.7	3829400.5	182.1	Cultural Debris	1	2	concrete
168	C3J1E9	09/16/08	C3J1E9-00013	275446.2	3829409.6	153.4	Cultural Debris	1	0	Scrap
169	C3J1E9	09/10/08	C3J1E9-00015	275422.5	3829449.4	143.2	Small Arms Ammunition	10	8	ammo can parts
170	C3J1E9		C3J1E9-00016	275426.6	3829447	142.5		0	0	See footnote
171	C3J1E9	09/10/08	C3J1E9-00017	275420.5	3829437.7	126.7	Cultural Debris	1	6	
172	C3J1E9	09/10/08	C3J1E9-00018	275441.1	3829407.2	121.3	Cultural Debris	1	6	concrete
173	C3J1E9	09/10/08	C3J1E9-00019	275419	3829401.4	118	Cultural Debris	1	12	
174	C3J1E9	09/10/08	C3J1E9-00020	275428	3829445.6	112.5	Small Arms Ammunition	11	3	linked 7.62 blanks
175	C3J1E9	09/09/08	C3J1E9-00021	275413.8	3829434.8	108.4	Cultural Debris	1	2	
176	C3J1E9	09/10/08	C3J1E9-00022	275419.8	3829418	105.3	Cultural Debris	3	6	

TABLE A-1
Phase I DGM Intrusive Investigation Results
Former Gun Positions 41A and 41B
MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Class	Quantity	Depth (inches)	Comment
177	C3J1E9	09/10/08	C3J1E9-00025	275441.6	3829442.7	96.3	Seed	1	1	seed item
178	C3J1E9	09/10/08	C3J1E9-00026	275416.8	3829418	93	Cultural Debris	1	0	survey traverse point
179	C3J1E9	09/10/08	C3J1E9-00027	275443	3829419.4	92.8	Munitions Debris	1	6	Signal, Illum, Ground, Cluster, M125A1, expended
180	C3J1E9	09/09/08	C3J1E9-00028	275419	3829425.2	89.9	Cultural Debris	1	6	
181	C3J1E9	09/10/08	C3J1E9-00029	275447.8	3829402	88.9	Cultural Debris	1	4	
182	C3J1E9	09/10/08	C3J1E9-00030	275420.6	3829412.2	88	Cultural Debris	1	1	survey traverse point
183	C3J1E9	09/10/08	C3J1E9-00032	275416.6	3829405.6	74.1	Cultural Debris	1	8	
184	C3J1E9	09/10/08	C3J1E9-00033	275418.2	3829405.2	66.8	Cultural Debris	2	24	
185	C3J1E9	09/10/08	C3J1E9-00034	275414.2	3829407.7	65.7	Cultural Debris	1	2	
186	C3J1E9	09/10/08	C3J1E9-00035	275403	3829406.8	63.4	Cultural Debris	1	1	
187	C3J1E9	09/16/08	C3J1E9-00036	275449.4	3829438	60.5	Munitions Debris	1	0	Blanks & Signal, Illum, Ground, Cluster, M125A1, expended
188	C3J1E9	09/09/08	C3J1E9-00037	275413.1	3829429.1	56	Cultural Debris	1	0	concrete slab
189	C3J1E9	09/16/08	C3J1E9-00038	275402.2	3829429.2	50.2	Munitions Debris	1	0	Signal, Illum, Ground, Cluster, M125A1, expended
190	C3J1E9	09/10/08	C3J1E9-00039	275425.3	3829407	47.9	Cultural Debris	1	6	
191	C3J1E9	09/10/08	C3J1E9-00041	275425.6	3829402.5	46.2	Cultural Debris	1	8	
192	C3J1E9	09/10/08	C3J1E9-00042	275405.4	3829406.8	45.6	Small Arms Ammunition	1	3	7.62 cartridge case
193	C3J1E9	09/09/08	C3J1E9-00043	275410.6	3829449.2	45.5	Cultural Debris	1	6	concrete in road
194	C3J1E9	09/10/08	C3J1E9-00045	275404.6	3829420.2	43.1	Cultural Debris	1	2	
195	C3J1E9	09/16/08	C3J1E9-00046	275401.1	3829401.1	41.7	Cultural Debris	1	0	Hoe
196	C3J1E9	09/10/08	C3J1E9-00047	275448.1	3829405.4	41.3	Cultural Debris	1	0	concrete
197	C3J1E9	09/09/08	C3J1E9-00050	275411.4	3829445.6	35.3	Cultural Debris	1	12	
198	C3J1E9	09/10/08	C3J1E9-00054	275440	3829408.3	24.1	Cultural Debris	1	6	concrete
199	C3J1E9	09/10/08	C3J1E9-00055	275431	3829407.8	23.4	Cultural Debris	3	8	
200	C3J1E9	09/10/08	C3J1E9-00068	275445.2	3829413	16.1	Cultural Debris	2	3	
201	C3J1E9	09/09/08	C3J1E9-00083	275428.8	3829417.6	10.4	Cultural Debris	1	14	
202	C3J1E9	09/09/08	C3J1E9-00085	275426	3829424.8	10.3	Cultural Debris	1	8	
203	C3J1E9	09/10/08	C3J1E9-00099	275426.2	3829442	8.3	Cultural Debris	1	2	
204	C3J1E9	09/09/08	C3J1E9-00101	275406.8	3829446	8.2	Cultural Debris	2	4	2nd item nail 1 m nw
205	C3J1E9	09/09/08	C3J1E9-00107	275409.4	3829431	7.3	Cultural Debris	1	2	
206	C3J1E9	09/10/08	C3J1E9-00118	275437.8	3829436.2	6	Munitions Debris	1	12	grenade spoon piece
207	C3J1E9	09/16/08	C3J1E9-00123	275429.6	3829406	5.8	Cultural Debris	1	0	Wire
208	C3J1E9	09/10/08	C3J1E9-00165	275409.2	3829420.2	3.4	Cultural Debris	1	12	
209	C3J1E9	09/16/08	C3J1E9-00185	275409.2	3829439.2	3	Cultural Debris	1	0	License plate

TABLE A-1

Phase I DGM Intrusive Investigation Results

*Former Gun Positions 41A and 41B**MCB Camp Lejeune, North Carolina*

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Class	Quantity	Depth (inches)	Comment
210	C3J1F0	09/09/08	C3J1F0-00001	275458	3829450.1	79.1	Munitions Debris	1	4	
211	C3J1F0	09/09/08	C3J1F0-00003	275453.9	3829453.8	8.9	Cultural Debris	1	0	
212	C3J1F7	09/16/08	C3J1F7-00001	275455.6	3829329.8	29.4	Cultural Debris	1	0	Scrap
213	C3J1F8	09/15/08	C3J1F8-00001	275450.2	3829400	549.8	Cultural Debris	8	1	concrete
214	C3J1F8	09/10/08	C3J1F8-00002	275457.8	3829389.5	164.7	Cultural Debris	1	0	
215	C3J1F8	09/10/08	C3J1F8-00003	275453.8	3829392.6	159.1	Cultural Debris	1	0	concrete slab
216	C3J1F8	09/16/08	C3J1F8-00005	275451.1	3829374.9	53.3	Cultural Debris	1	0	Scrap
217	C3J1F8	09/10/08	C3J1F8-00006	275453.8	3829385.6	35.7	Cultural Debris	1	3	
218	C3J1F8	09/15/08	C3J1F8-00008	275450.6	3829392	20.9	Cultural Debris	2	6	concrete
219	C3J1F8	09/16/08	C3J1F8-00019	275451	3829367.6	6.1	Cultural Debris	1	0	Scrap
220	C3J1F9	09/10/08	C3J1F9-00001	275451.6	3829401	3026.2	Cultural Debris	1	0	
221	C3J1F9	09/10/08	C3J1F9-00002	275457.2	3829424.8	132.1	Munitions Debris	1	2	Signal, Illum, Ground, Cluster, M125A1, expended
222	C3J1F9	09/15/08	C3J1F9-00003	275458	3829449.9	60.1	Cultural Debris	1	6	
223	C3J1F9	09/15/08	C3J1F9-00009	275456.8	3829407.4	3.7	Cultural Debris	1	8	
224	C3J1F9	09/10/08	C3J1F9-00014	275454.8	3829415.8	3	Cultural Debris	1	2	

Note: The intrusive investigation data from the anomalies that are highlighted was lost during Phase I so these locations were re-investigated during Phase II.

TABLE A-2

Phase I Magnetometer Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

X Coordinate	Y Coordinate	Comments
275379.8	3829405.8	Signal, Illum, Ground, Cluster, M125A1, expended
275369.8	3829396.7	full SAW drum, 202 blanks
275370.2	3829390.3	M18 Grenade, Smoke, expended
275359.3	3829368.2	Signal, Illum, Ground, Cluster, M125A1, expended
275355.3	3829348.1	linked 7.62 - 211 blanks

TABLE A-3

Phase II DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Type	Quantity	Depth (inches)	Comment
1	C3J1C0	10/23/08	C3J1C0-00004	275326	3829462.8	13.3	Cultural Debris	1	0	
2	C3J1C0	10/23/08	C3J1C0-00005	275335.8	3829458.9	12.8	Cultural Debris	1	1	
3	C3J1C0	10/23/08	C3J1C0-00006	275333.2	3829462.8	10.5	Cultural Debris	1	0	
4	C3J1C0	10/23/08	C3J1C0-00007	275328.4	3829459.8	7.3	Cultural Debris	1	4	
5	C3J1C0	10/23/08	C3J1C0-00008	275333.8	3829458.6	5.2	Cultural Debris	2	0	
6	C3J1C0	10/22/08	C3J1C0-00009	275349.6	3829462.7	5.1	No Find	0		
7	C3J1C0	10/27/08	C3J1C0-00010	275346.8	3829454.6	3.9	Cultural Debris	0		
8	C3J1C0	10/22/08	C3J1C0-00011	275341.4	3829460.8	3.8	Cultural Debris	1	0	
9	C3J1C0	10/23/08	C3J1C0-00012	275330.6	3829462.4	3.3	Cultural Debris	1	2	
10	C3J1C0	10/23/08	C3J1C0-00013	275345.6	3829454.8	3.1	No Find	0		
11	C3J1C0	10/23/08	C3J1C0-00014	275333.9	3829452.9	3	Cultural Debris	1	0	
12	C3J1C7	10/23/08	C3J1C7-00004	275346.6	3829329.8	3.2	Cultural Debris	1	2	
13	C3J1C8	10/23/08	C3J1C8-00001	275339.1	3829378.9	112.9	No Find	0		Phase I Dig Location
14	C3J1C8	10/23/08	C3J1C8-00004	275339.3	3829399.9	14.4	No Find	0		Phase I Dig Location
15	C3J1C8	10/23/08	C3J1C8-00005	275345.8	3829384	7.8	Cultural Debris	1	0	
16	C3J1C8	10/23/08	C3J1C8-00007	275332.9	3829396.7	3.2	No Find	0		
17	C3J1C8	10/23/08	C3J1C8-00008	275348.9	3829365.2	3.1	Cultural Debris	1	2	
18	C3J1C8	10/23/08	C3J1C8-00009	275332.2	3829399.4	3	Cultural Debris	1	0	
19	C3J1C8	10/23/08	C3J1C8-00010	275349.6	3829374.8	3	Cultural Debris	1	0	
20	C3J1C8	10/23/08	C3J1C8-00011	275339.8	3829372.4	3	Cultural Debris	1	0	
21	C3J1C8	10/23/08	C3J1C8-00012	275331.4	3829381.9		No Find	0		
22	C3J1C8	10/23/08	C3J1C8-00013	275344.3	3829361.6		No Find	0		
23	C3J1C8	10/23/08	C3J1C8-00014	275334.4	3829378.2		No Find	0		
24	C3J1C8	10/23/08	C3J1C8-00015	275334.4	3829398.6		Cultural Debris	1	1	
25	C3J1C8	10/23/08	C3J1C8-00016	275333.6	3829383.3		No Find	0		
26	C3J1C9	10/23/08	C3J1C9-00001	275348.1	3829439.4	116.8	No Find	0		Phase I Dig Location
27	C3J1C9	10/23/08	C3J1C9-00003	275341.2	3829426.4	12.7	No Find	0		
28	C3J1C9	10/23/08	C3J1C9-00005	275342	3829425.4	6	No Find	0		
29	C3J1C9	10/23/08	C3J1C9-00006	275340.4	3829425.4	4.5	Cultural Debris	1	10	
30	C3J1C9	10/23/08	C3J1C9-00007	275326.8	3829414	4.3	Cultural Debris	1	1	
31	C3J1C9	10/23/08	C3J1C9-00008	275329	3829422.2	3.5	No Find	0		Phase I Dig Location
32	C3J1C9	10/23/08	C3J1C9-00009	275328.3	3829425.5	3.3	No Find	0		
33	C3J1C9	10/23/08	C3J1C9-00010	275338.2	3829428.4	3	Cultural Debris	1	0	
34	C3J1C9	10/23/08	C3J1C9-00011	275339.7	3829422.6	3	Cultural Debris	1	1	
35	C3J1C9	10/23/08	C3J1C9-00012	275333.6	3829418.4		No Find	0		
36	C3J1C9	10/23/08	C3J1C9-00013	275332.9	3829415.3		No Find	0		
37	C3J1C9	10/23/08	C3J1C9-00014	275333.6	3829417.1		No Find	0		
38	C3J1C9	10/22/08	C3J1C9-00015	275349.6	3829423.9		No Find	0		
39	C3J1D0	10/21/08	C3J1D0-00005	275394.2	3829461.4	18.2	Cultural Debris	2	5	

TABLE A-3

Phase II DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Type	Quantity	Depth (inches)	Comment
40	C3J1D0	10/22/08	C3J1D0-00006	275353.8	3829455.2	16.1	Cultural Debris	1	1	
41	C3J1D0	10/22/08	C3J1D0-00007	275360	3829450.1	10.5	Cultural Debris	1	3	
42	C3J1D0	10/21/08	C3J1D0-00008	275384	3829460.6	8.3	Cultural Debris	1	4	
43	C3J1D0	10/21/08	C3J1D0-00009	275389.4	3829458.2	5.8	Cultural Debris	1	4	
44	C3J1D0	10/21/08	C3J1D0-00010	275383.8	3829462	5.3	No Find	0		
45	C3J1D0	10/22/08	C3J1D0-00011	275350.6	3829462.7	4.9	No Find	0		
46	C3J1D0	10/22/08	C3J1D0-00012	275357.8	3829455.8	4.8	Cultural Debris	2	4	
47	C3J1D0	10/22/08	C3J1D0-00013	275365.4	3829450.6	4	Cultural Debris	2	3	
48	C3J1D0	10/21/08	C3J1D0-00014	275380.8	3829460.4	3.9	Cultural Debris	2	2	
49	C3J1D0	10/22/08	C3J1D0-00015	275390.6	3829456.4	3.7	Cultural Debris	1	2	
50	C3J1D0	10/22/08	C3J1D0-00016	275379.2	3829452.8	3.7	Cultural Debris	1	0	
51	C3J1D0	10/22/08	C3J1D0-00017	275353	3829456	3.7	Cultural Debris	1	1	
52	C3J1D0	10/21/08	C3J1D0-00018	275389.8	3829459.8	3.4	Cultural Debris	1	3	
53	C3J1D0	10/21/08	C3J1D0-00019	275378.6	3829460	3.2	Cultural Debris	1	3	
54	C3J1D0	10/22/08	C3J1D0-00020	275378.6	3829458.8	3.1	Cultural Debris	1	0	
55	C3J1D0	10/22/08	C3J1D0-00021	275393.4	3829455	3	Cultural Debris	1	2	
56	C3J1D7	10/23/08	C3J1D7-00001	275361.4	3829329	6153.4	Cultural Debris	1	0	
57	C3J1D7	10/23/08	C3J1D7-00002	275358.6	3829330.6	1218.3	Cultural Debris	1	0	
58	C3J1D7	10/23/08	C3J1D7-00005	275389.3	3829343.5	38.7	Cultural Debris	1	0	
59	C3J1D7	10/23/08	C3J1D7-00010	275390.2	3829342	15.1	Cultural Debris	3	3	
60	C3J1D7	10/23/08	C3J1D7-00011	275384.2	3829330.6	14	Cultural Debris	1	12	
61	C3J1D7	10/23/08	C3J1D7-00012	275387.7	3829330.6	13.7	Cultural Debris	1	12	
62	C3J1D7	10/23/08	C3J1D7-00013	275390	3829349.6	12.3	Cultural Debris	1	12	
63	C3J1D7	10/23/08	C3J1D7-00014	275399.4	3829331.2	11.2	Cultural Debris	1	6	
64	C3J1D7	10/23/08	C3J1D7-00015	275387.9	3829343.5	11.1	Cultural Debris	1	3	
65	C3J1D7	10/23/08	C3J1D7-00016	275385	3829331.2	9.6	Cultural Debris	1	4	
66	C3J1D7	10/23/08	C3J1D7-00017	275399.4	3829329.1	9.2	Cultural Debris	1	0	
67	C3J1D7	10/23/08	C3J1D7-00018	275396.4	3829332.8	8.6	Cultural Debris	1	5	
68	C3J1D7	10/23/08	C3J1D7-00019	275399.4	3829338.2	7.7	Cultural Debris	1	2	
69	C3J1D7	10/23/08	C3J1D7-00020	275396	3829345.8	7.5	Cultural Debris	1	1	
70	C3J1D7	10/23/08	C3J1D7-00021	275392.8	3829329.7	7.4	Cultural Debris	1	2	
71	C3J1D7	10/23/08	C3J1D7-00022	275351.6	3829330.6	6.9	Cultural Debris	1	2	
72	C3J1D7	10/23/08	C3J1D7-00023	275397	3829345.8	6.8	Cultural Debris	1	8	
73	C3J1D7	10/23/08	C3J1D7-00024	275377	3829329.8	6.7	Cultural Debris	1	1	
74	C3J1D7	10/23/08	C3J1D7-00025	275392.7	3829344.2	6.6	Cultural Debris	1	2	
75	C3J1D7	10/23/08	C3J1D7-00026	275392.2	3829345	6.3	Cultural Debris	1	4	
76	C3J1D7	10/23/08	C3J1D7-00027	275394.8	3829345.3	5.9	Cultural Debris	3	0	
77	C3J1D7	10/23/08	C3J1D7-00028	275398.6	3829335.2	5.7	Cultural Debris	1	0	
78	C3J1D7	10/23/08	C3J1D7-00029	275393.4	3829332	4.9	Cultural Debris	1	2	

TABLE A-3

Phase II DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Type	Quantity	Depth (inches)	Comment
79	C3J1D7	10/23/08	C3J1D7-00030	275391.8	3829339	4.8	Cultural Debris	1	6	
80	C3J1D7	10/23/08	C3J1D7-00031	275363.2	3829332	4	Cultural Debris	1	0	
81	C3J1D7	10/23/08	C3J1D7-00032	275388	3829348	4	Cultural Debris	1	0	
82	C3J1D7	10/23/08	C3J1D7-00033	275399.4	3829342	3.6	Cultural Debris	1	6	
83	C3J1D7	10/23/08	C3J1D7-00034	275386	3829339	3.6	Cultural Debris	1	3	
84	C3J1D7	10/23/08	C3J1D7-00035	275397.8	3829331.4	3.3	Cultural Debris	1	0	
85	C3J1D7	10/23/08	C3J1D7-00036	275390.8	3829336.6	3.2	Cultural Debris	2	4	
86	C3J1D7	10/23/08	C3J1D7-00037	275391.7	3829348.1	3.2	Cultural Debris	1	0	
87	C3J1D7	10/23/08	C3J1D7-00038	275396.5	3829341.2	3.2	Cultural Debris	1	4	
88	C3J1D7	10/23/08	C3J1D7-00039	275373.8	3829330.5	3.1	Cultural Debris	1	0	
89	C3J1D7	10/23/08	C3J1D7-00040	275398.6	3829337.4	3	Cultural Debris	1	3	
90	C3J1D7	10/23/08	C3J1D7-00041	275399.8	3829336.6	3	Cultural Debris	1	3	
91	C3J1D8	10/23/08	C3J1D8-00002	275352.4	3829372.6	643.1	Cultural Debris	1	0	
92	C3J1D8	10/23/08	C3J1D8-00005	275387	3829383.6	118.8	Cultural Debris	2	3	
93	C3J1D8	10/23/08	C3J1D8-00007	275385	3829380.9	94	Cultural Debris	7	4	
94	C3J1D8	10/23/08	C3J1D8-00009	275388.2	3829384.6	47	Cultural Debris	5	24	
95	C3J1D8	10/23/08	C3J1D8-00012	275394.8	3829350.1	43.6	Cultural Debris	2	8	
96	C3J1D8	10/22/08	C3J1D8-00014	275399.8	3829397	39.3	No Find	0		
97	C3J1D8	10/20/08	C3J1D8-00015	275395	3829364.1	38.5	Cultural Debris	2	2	
98	C3J1D8	10/23/08	C3J1D8-00017	275395.2	3829391.2	28.3	Cultural Debris	2	2	
99	C3J1D8	10/21/08	C3J1D8-00021	275399.9	3829369.8	24.3	Cultural Debris	1	0	
100	C3J1D8	10/22/08	C3J1D8-00023	275386.4	3829385.3	19.3	Cultural Debris	1	0	
101	C3J1D8	10/21/08	C3J1D8-00024	275399.9	3829365.9	18.9	Cultural Debris	1	3	
102	C3J1D8	10/23/08	C3J1D8-00025	275389.3	3829383.8	18.6	Cultural Debris	4	24	
103	C3J1D8	10/20/08	C3J1D8-00027	275386	3829357.7	17.4	Cultural Debris	1	4	
104	C3J1D8	10/23/08	C3J1D8-00028	275385.5	3829386.6	16.8	Cultural Debris	1	5	
105	C3J1D8	10/20/08	C3J1D8-00029	275397.8	3829363	15.7	Cultural Debris	1	6	
106	C3J1D8	10/21/08	C3J1D8-00030	275378.2	3829358.4	12.5	Cultural Debris	1	3	
107	C3J1D8	10/20/08	C3J1D8-00031	275399.2	3829363.2	12.2	Cultural Debris	1	6	
108	C3J1D8	10/22/08	C3J1D8-00032	275388.2	3829388.2	11.2	Cultural Debris	1	3	
109	C3J1D8	10/23/08	C3J1D8-00033	275391	3829383	10.9	Cultural Debris	5	24	
110	C3J1D8	10/20/08	C3J1D8-00034	275386.4	3829359	10.5	Cultural Debris	1	2	
111	C3J1D8	10/23/08	C3J1D8-00035	275390.8	3829354	10	Cultural Debris	1	6	
112	C3J1D8	10/23/08	C3J1D8-00036	275358.4	3829368.8	9.2	Cultural Debris	1	1	
113	C3J1D8	10/20/08	C3J1D8-00037	275390.1	3829384.8	9	Cultural Debris	2	3	
114	C3J1D8	10/22/08	C3J1D8-00038	275399.4	3829388.8	8.8	Cultural Debris	1	2	
115	C3J1D8	10/20/08	C3J1D8-00039	275387	3829358.4	8.6	Cultural Debris	1	0	
116	C3J1D8	10/23/08	C3J1D8-00040	275390.6	3829354.8	8.4	Cultural Debris	1	6	
117	C3J1D8	10/20/08	C3J1D8-00041	275386.9	3829380.1	7.4	Cultural Debris	3	6	

TABLE A-3

Phase II DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Type	Quantity	Depth (inches)	Comment
118	C3J1D8	10/23/08	C3J1D8-00042	275391.1	3829384.4	7.2	Cultural Debris	4	24	
119	C3J1D8	10/20/08	C3J1D8-00043	275383.9	3829361.4	7.1	Cultural Debris	2	2	
120	C3J1D8	10/23/08	C3J1D8-00044	275387	3829388	7	Cultural Debris	1	5	
121	C3J1D8	10/20/08	C3J1D8-00045	275392.6	3829364.4	6.3	Cultural Debris	1	8	
122	C3J1D8	10/21/08	C3J1D8-00046	275398.6	3829377.2	5.9	Cultural Debris	1	3	
123	C3J1D8	10/20/08	C3J1D8-00047	275399.9	3829360.6	5.7	Cultural Debris	2	6	
124	C3J1D8	10/27/08	C3J1D8-00048	275395.4	3829385.6	5.2	Cultural Debris	1	2	
125	C3J1D8	10/21/08	C3J1D8-00049	275379.8	3829359.2	5	Cultural Debris	1	0	
126	C3J1D8	10/23/08	C3J1D8-00050	275350.1	3829350.1	4.9	No Find	0		
127	C3J1D8	10/21/08	C3J1D8-00051	275396.8	3829368.8	4.6	Cultural Debris	3	6	
128	C3J1D8	10/20/08	C3J1D8-00052	275390.5	3829365.4	4.4	Cultural Debris	1	3	
129	C3J1D8	10/21/08	C3J1D8-00053	275400	3829374.8	4.3	Cultural Debris	1	4	
130	C3J1D8	10/21/08	C3J1D8-00054	275398.1	3829376.5	4.2	Cultural Debris	1	3	
131	C3J1D8	10/20/08	C3J1D8-00055	275399.4	3829353.4	4.1	Cultural Debris	1	6	
132	C3J1D8	10/20/08	C3J1D8-00056	275399.8	3829352.3	4.1	Cultural Debris	1	4	
133	C3J1D8	10/21/08	C3J1D8-00057	275393.5	3829365.9	3.8	Cultural Debris	2	12	
134	C3J1D8	10/27/08	C3J1D8-00058	275390.4	3829394.8	3.7	Cultural Debris	0		
135	C3J1D8	10/23/08	C3J1D8-00059	275378.2	3829379.2	3.5	Munitions Debris	1	0	M-22 ground signal flare expended
136	C3J1D8	10/20/08	C3J1D8-00060	275388.5	3829358.1	3.5	Cultural Debris	2	3	
137	C3J1D8	10/23/08	C3J1D8-00061	275396.4	3829353.6	3.5	Cultural Debris	1	6	
138	C3J1D8	10/20/08	C3J1D8-00062	275382.6	3829355	3.3	Cultural Debris	2	1	
139	C3J1D8	10/21/08	C3J1D8-00063	275397.7	3829368.3	3.3	Cultural Debris	2	2	
140	C3J1D8	10/22/08	C3J1D8-00064	275398.6	3829393	3.3	Cultural Debris	1	4	
141	C3J1D8	10/21/08	C3J1D8-00065	275376.8	3829357.8	3.2	Cultural Debris	1	3	
142	C3J1D8	10/23/08	C3J1D8-00066	275364.5	3829384.1	3.1	Cultural Debris	2	4	
143	C3J1D8	10/23/08	C3J1D8-00067	275355.3	3829390.9	3.1	No Find	0		
144	C3J1D8	10/23/08	C3J1D8-00068	275372.9	3829386.6	3.1	Cultural Debris	1	3	
145	C3J1D8	10/21/08	C3J1D8-00069	275398.4	3829366.8	3.1	Cultural Debris	1	3	
146	C3J1D8	10/21/08	C3J1D8-00070	275376.7	3829356.5	3	Cultural Debris	1	3	
147	C3J1D8	10/23/08	C3J1D8-00071	275374.4	3829389.4	3	Munitions Debris	1	0	expended smoke grenade components
148	C3J1D8	10/23/08	C3J1D8-00072	275354.6	3829374.8	3	Cultural Debris	1	0	
149	C3J1D8	10/23/08	C3J1D8-00073	275377.4	3829371.1	3	Cultural Debris	1	2	
150	C3J1D9	10/22/08	C3J1D9-00009	275383.8	3829433.7	11.3	Cultural Debris	2	2	
151	C3J1D9	10/22/08	C3J1D9-00010	275359	3829444.6	11	Cultural Debris	2	0	
152	C3J1D9	10/22/08	C3J1D9-00013	275368.2	3829444.1	8.4	No Find	0		
153	C3J1D9	10/22/08	C3J1D9-00014	275359	3829427.8	7.7	No Find	0		
154	C3J1D9	10/22/08	C3J1D9-00015	275359.7	3829449.1	7.2	Cultural Debris	1	6	

TABLE A-3

Phase II DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Type	Quantity	Depth (inches)	Comment
155	C3J1D9	10/27/08	C3J1D9-00016	275399.6	3829418.4	6.8	Cultural Debris	0		
156	C3J1D9	10/22/08	C3J1D9-00017	275361.4	3829446.6	6.4	Cultural Debris	2	6	
157	C3J1D9	10/22/08	C3J1D9-00018	275399.9	3829411.4	6	Cultural Debris	1	1	
158	C3J1D9	10/22/08	C3J1D9-00019	275393.5	3829400.6	6	Munitions Debris	1	6	M18 grenade, smoke, practice, with M201A1 fuze expended
159	C3J1D9	10/22/08	C3J1D9-00020	275359.3	3829445.7	5.8	Cultural Debris	2	0	
160	C3J1D9	10/22/08	C3J1D9-00021	275361.4	3829445.4	4.7	Cultural Debris	2	3	
161	C3J1D9	10/22/08	C3J1D9-00022	275398.5	3829450	3.9	Cultural Debris	1	1	
162	C3J1D9	10/22/08	C3J1D9-00024	275396.8	3829440.8	3.6	Cultural Debris	1	0	
163	C3J1D9	10/22/08	C3J1D9-00025	275366	3829440.6	3.5	No Find	0		
164	C3J1D9	10/21/08	C3J1D9-00026	275398.2	3829402.4	3.5	Cultural Debris	1	6	
165	C3J1D9	10/22/08	C3J1D9-00028	275372	3829441	3.3	No Find	0		
166	C3J1D9	10/27/08	C3J1D9-00029	275399.9	3829416.4	3.3	Cultural Debris	0		
167	C3J1D9	10/22/08	C3J1D9-00031	275370.7	3829414.3	3.2	No Find	1		
168	C3J1D9	10/22/08	C3J1D9-00032	275355.2	3829448	3.2	Cultural Debris	1	6	
169	C3J1D9	10/22/08	C3J1D9-00033	275398.1	3829433.7	3.2	No Find	0		
170	C3J1D9	10/22/08	C3J1D9-00034	275362.2	3829448.6	3.1	Cultural Debris	1	1	
171	C3J1D9	10/21/08	C3J1D9-00035	275391.5	3829410.1	3.1	Cultural Debris	1	3	
172	C3J1D9	10/22/08	C3J1D9-00036	275381.8	3829445.3	3.1	Cultural Debris	1	1	
173	C3J1D9	10/22/08	C3J1D9-00037	275384	3829419.9	3	Cultural Debris	1	2	
174	C3J1D9	10/22/08	C3J1D9-00038	275383.4	3829441.8	3	Cultural Debris	1	2	
175	C3J1D9	10/27/08	C3J1D9-00039	275398.2	3829400.8	3	Cultural Debris	0		
176	C3J1D9	10/22/08	C3J1D9-00040	275396.6	3829439.8	3	Cultural Debris	1	0	
177	C3J1D9	10/22/08	C3J1D9-00041	275387.6	3829425.6	3	No Find	0		
178	C3J1D9	10/22/08	C3J1D9-00042	275353.8	3829419.2	3	Cultural Debris	1	2	
179	C3J1D9	10/22/08	C3J1D9-00043	275385.6	3829428.8	3	Cultural Debris	1	6	
180	C3J1E0	10/22/08	C3J1E0-00004	275422.6	3829450.1	39.2	Cultural Debris	2	0	
181	C3J1E0	10/21/08	C3J1E0-00006	275410.4	3829450.1	26.8	Cultural Debris	2	1	
182	C3J1E0	10/22/08	C3J1E0-00009	275421.2	3829456	10	Munitions Debris	1	6	MK1 grenades, practice, no fuze, expended
183	C3J1E0	10/22/08	C3J1E0-00010	275427.4	3829454.2	6.7	Cultural Debris	1	6	
184	C3J1E0	10/21/08	C3J1E0-00011	275400.4	3829462	5.7	Cultural Debris	1	24	utility
185	C3J1E0	10/22/08	C3J1E0-00012	275405.5	3829462.2	5.5	Cultural Debris	1	3	
186	C3J1E0	10/21/08	C3J1E0-00013	275401.2	3829455	5.3	Cultural Debris	1	3	
187	C3J1E0	10/22/08	C3J1E0-00014	275421.8	3829451.6	5.3	Cultural Debris	1	1	
188	C3J1E0	10/22/08	C3J1E0-00016	275413	3829457.6	4.2	Cultural Debris	1	0	
189	C3J1E0	10/22/08	C3J1E0-00017	275417	3829460.6	3.6	Cultural Debris	1	1	
190	C3J1E0	10/22/08	C3J1E0-00018	275439.2	3829454.6	3.5	Cultural Debris	1	1	

TABLE A-3

Phase II DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Type	Quantity	Depth (inches)	Comment
191	C3J1E0	10/21/08	C3J1E0-00019	275408	3829452.2	3.2	Cultural Debris	2	4	
192	C3J1E0	10/22/08	C3J1E0-00020	275447.3	3829451.3	3.2	No Find	0		
193	C3J1E0	10/21/08	C3J1E0-00021	275400.1	3829453.8	3.1	No Find	0		
194	C3J1E0	10/21/08	C3J1E0-00022	275402.2	3829451.6	3	No Find	0		
195	C3J1E7	10/23/08	C3J1E7-00001	275434.6	3829334.6	643.1	Cultural Debris	1	12	Phase I Dig Location
196	C3J1E7	10/23/08	C3J1E7-00011	275444.2	3829348.4	21.5	No Find	0		
197	C3J1E7	10/16/08	C3J1E7-00013	275435.7	3829349.8	17.5	Cultural Debris	20	8	
198	C3J1E7	10/16/08	C3J1E7-00014	275427.1	3829349.9	17.2	Cultural Debris	1	4	
199	C3J1E7	10/14/08	C3J1E7-00016	275437	3829346.2	16	Cultural Debris	1	2	nail
200	C3J1E7	10/16/08	C3J1E7-00017	275432.5	3829342.6	13.4	Cultural Debris	1	4	
201	C3J1E7	10/14/08	C3J1E7-00018	275440.5	3829349.9	12.7	Cultural Debris	1	12	
202	C3J1E7	10/14/08	C3J1E7-00019	275438.4	3829349.9	11.6	Cultural Debris	1	4	
203	C3J1E7	10/23/08	C3J1E7-00020	275448.4	3829341.8	10.5	Cultural Debris	1	3	
204	C3J1E7	10/20/08	C3J1E7-00021	275400.7	3829348.2	9.2	Munitions Debris	2	12	1ea 40mm flare cartridge expended, and scrap
205	C3J1E7	10/14/08	C3J1E7-00022	275438.9	3829347.6	9.1	Cultural Debris	1	5	wire
206	C3J1E7	10/23/08	C3J1E7-00023	275447.6	3829342.6	8.8	Cultural Debris	1	24	
207	C3J1E7	10/20/08	C3J1E7-00024	275410.4	3829345	8.7	Cultural Debris	1	6	
208	C3J1E7	10/23/08	C3J1E7-00025	275407	3829340.4	8.6	Cultural Debris	2	6	
209	C3J1E7	10/16/08	C3J1E7-00026	275428.7	3829349.8	7.1	Cultural Debris	4	2	
210	C3J1E7	10/16/08	C3J1E7-00027	275423.4	3829346.4	6.2	Cultural Debris	1	6	
211	C3J1E7	10/14/08	C3J1E7-00028	275439.2	3829332	6.1	Cultural Debris	1	0	
212	C3J1E7	10/20/08	C3J1E7-00029	275404	3829349.6	5.9	Cultural Debris	2	6	
213	C3J1E7	10/20/08	C3J1E7-00030	275411.9	3829349.2	5.8	Cultural Debris	3	6	
214	C3J1E7	10/16/08	C3J1E7-00031	275435.4	3829343.4	5.5	Cultural Debris	1	3	
215	C3J1E7	10/20/08	C3J1E7-00032	275404.8	3829347.8	5.3	Cultural Debris	1	3	
216	C3J1E7	10/16/08	C3J1E7-00033	275422.8	3829341.8	4.9	Cultural Debris	1	3	
217	C3J1E7	10/23/08	C3J1E7-00034	275401.4	3829332.8	4.8	No Find	0		
218	C3J1E7	10/16/08	C3J1E7-00035	275433.4	3829343.8	4.5	Cultural Debris	2	6	
219	C3J1E7	10/23/08	C3J1E7-00036	275413.2	3829329.1	4.1	Cultural Debris	1	1	
220	C3J1E7	10/27/08	C3J1E7-00037	275439.2	3829334.8	4	Cultural Debris	0		
221	C3J1E7	10/14/08	C3J1E7-00038	275441.5	3829329.1	3.8	Cultural Debris	1	0	
222	C3J1E7	10/23/08	C3J1E7-00039	275406.6	3829335.8	3.8	Cultural Debris	1	0	
223	C3J1E7	10/23/08	C3J1E7-00040	275406.7	3829329.1	3.7	Cultural Debris	1	2	
224	C3J1E7	10/20/08	C3J1E7-00041	275410.8	3829346.6	3.5	Cultural Debris	2	6	
225	C3J1E7	10/14/08	C3J1E7-00042	275443.4	3829329.2	3.3	Cultural Debris	1	0	
226	C3J1E7	10/16/08	C3J1E7-00043	275430.7	3829343.4	3.3	Cultural Debris	1	4	
227	C3J1E7	10/23/08	C3J1E7-00044	275441.7	3829345.3	3.3	Cultural Debris	2	2	
228	C3J1E7	10/23/08	C3J1E7-00045	275400.2	3829329.8	3.2	Cultural Debris	1	2	

TABLE A-3

Phase II DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Type	Quantity	Depth (inches)	Comment
229	C3J1E7	10/23/08	C3J1E7-00046	275414.9	3829330.5	3.2	Cultural Debris	1	2	
230	C3J1E7	10/16/08	C3J1E7-00047	275425.7	3829341.9	3.2	Cultural Debris	2	3	
231	C3J1E7	10/20/08	C3J1E7-00048	275440	3829337.8	3.2	Cultural Debris	1	2	
232	C3J1E7	10/20/08	C3J1E7-00049	275438.6	3829334.1	3.1	Cultural Debris	1	2	
233	C3J1E7	10/16/08	C3J1E7-00050	275425.3	3829345.8	3.1	Cultural Debris	2	2	
234	C3J1E7	10/14/08	C3J1E7-00051	275434.8	3829336.4	3.1	Cultural Debris	1	2	
235	C3J1E7	10/20/08	C3J1E7-00052	275439.7	3829340	3	Cultural Debris	1	2	
236	C3J1E7	10/23/08	C3J1E7-00053	275418.9	3829336.6	3	Cultural Debris	1	4	
237	C3J1E7	10/23/08	C3J1E7-00055	275425.4	3829330.2	3	Cultural Debris	1	2	
238	C3J1E8	10/21/08	C3J1E8-00001	275431.2	3829374.3	6026.4	Munitions Debris	1	8	m49a1 flare mount
239	C3J1E8	10/15/08	C3J1E8-00007	275445	3829350.1	726.6	No Find	0		
240	C3J1E8	10/22/08	C3J1E8-00008	275437.2	3829379.4	623.8	Cultural Debris	1	10	
241	C3J1E8	10/21/08	C3J1E8-00013	275436.5	3829377.2	356.8	Cultural Debris	1	6	
242	C3J1E8	10/21/08	C3J1E8-00016	275414.4	3829385	253.3	Cultural Debris	2	4	
243	C3J1E8	10/16/08	C3J1E8-00018	275435	3829361	239.6	Cultural Debris	2	4	
244	C3J1E8	10/20/08	C3J1E8-00023	275410.6	3829398.6	186.8	Cultural Debris	2	2	
245	C3J1E8	10/21/08	C3J1E8-00025	275433.3	3829377.2	176.2	Cultural Debris	1	8	
246	C3J1E8	10/21/08	C3J1E8-00032	275410.6	3829383.4	113.3	Cultural Debris	1	6	Phase I Dig Location
247	C3J1E8	10/20/08	C3J1E8-00034	275410.6	3829377	86.6	Cultural Debris	1	3	
248	C3J1E8	10/22/08	C3J1E8-00037	275448.7	3829398.7	65.8	Cultural Debris	1		
249	C3J1E8	10/21/08	C3J1E8-00039	275436	3829379.2	65.7	Cultural Debris	1	3	
250	C3J1E8	10/15/08	C3J1E8-00044	275443.6	3829363.4	59.7	Cultural Debris	2	6	
251	C3J1E8	10/21/08	C3J1E8-00047	275412.2	3829389	57.3	Cultural Debris	2	2	
252	C3J1E8	10/15/08	C3J1E8-00050	275436	3829387	56.3	Cultural Debris	2	10	
253	C3J1E8	10/14/08	C3J1E8-00051	275438.2	3829350.6	55.3	Cultural Debris	1	4	
254	C3J1E8	10/14/08	C3J1E8-00055	275440.2	3829386.1	50.3	Cultural Debris	1	4	
255	C3J1E8	10/20/08	C3J1E8-00056	275408.4	3829396.4	48.2	Cultural Debris	1	5	
256	C3J1E8	10/21/08	C3J1E8-00058	275435	3829379.6	47.9	Cultural Debris	1	4	
257	C3J1E8	10/15/08	C3J1E8-00063	275423.5	3829396.4	44.2	Cultural Debris	2	4	
258	C3J1E8	10/14/08	C3J1E8-00072	275438.8	3829354.8	35.6	Cultural Debris	1	12	rebar
259	C3J1E8	10/22/08	C3J1E8-00078	275446.2	3829399.6	31.8	Cultural Debris	1		
260	C3J1E8	10/22/08	C3J1E8-00082	275447.1	3829398.3	31.1	Cultural Debris	1		
261	C3J1E8	10/16/08	C3J1E8-00085	275416.2	3829373.6	30.4	Cultural Debris	1	18	
262	C3J1E8	10/14/08	C3J1E8-00090	275449.9	3829385.4	27.9	Cultural Debris	1	10	
263	C3J1E8	10/22/08	C3J1E8-00093	275444	3829399.8	26.3	Cultural Debris	1		
264	C3J1E8	10/15/08	C3J1E8-00096	275425	3829379.2	23.2	Cultural Debris	1	6	
265	C3J1E8	10/20/08	C3J1E8-00097	275423.5	3829377.5	23.2	Cultural Debris	1	10	
266	C3J1E8	10/21/08	C3J1E8-00100	275413.2	3829386.9	22.5	Munitions Debris	2	4	m583a1 40mm flare expended, and a can

TABLE A-3

Phase II DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Type	Quantity	Depth (inches)	Comment
267	C3J1E8	10/15/08	C3J1E8-00103	275449.8	3829375	21.6	Cultural Debris	1	4	elevated in mound
268	C3J1E8	10/14/08	C3J1E8-00105	275448.6	3829387	21.4	Cultural Debris	1	12	
269	C3J1E8	10/15/08	C3J1E8-00109	275444	3829378.6	19.8	Cultural Debris	1	6	
270	C3J1E8	10/20/08	C3J1E8-00110	275401.6	3829392.6	19.8	Cultural Debris	1	12	
271	C3J1E8	10/15/08	C3J1E8-00111	275446.8	3829371.7	19.5	Cultural Debris	1	6	
272	C3J1E8	10/23/08	C3J1E8-00112	275445.2	3829371.2	19.4	Cultural Debris	2	2	
273	C3J1E8	10/21/08	C3J1E8-00113	275400.1	3829365.8	19.3	Cultural Debris	1	3	
274	C3J1E8	10/21/08	C3J1E8-00114	275433.8	3829373.8	18.9	Cultural Debris	2	6	
275	C3J1E8	10/22/08	C3J1E8-00116	275449.8	3829391.9	18.6	Cultural Debris	1		
276	C3J1E8	10/20/08	C3J1E8-00117	275408.4	3829365.1	18.4	Cultural Debris	1	18	
277	C3J1E8	10/14/08	C3J1E8-00118	275441.9	3829388.9	17.8	Cultural Debris	1	3	
278	C3J1E8	10/15/08	C3J1E8-00119	275448	3829369.6	17.7	Cultural Debris	1	6	
279	C3J1E8	10/14/08	C3J1E8-00120	275443.4	3829384.8	17.5	Cultural Debris	1	5	
280	C3J1E8	10/15/08	C3J1E8-00121	275427.8	3829377.9	17.2	Munitions Debris	4	4	grenade spoon
281	C3J1E8	10/16/08	C3J1E8-00122	275435.9	3829350.1	17	Cultural Debris	20	8	
282	C3J1E8	10/21/08	C3J1E8-00123	275432.6	3829379.2	16.7	Cultural Debris	3	4	
283	C3J1E8	10/15/08	C3J1E8-00124	275443.2	3829391.5	16.5	Cultural Debris	1	6	
284	C3J1E8	10/21/08	C3J1E8-00125	275408.2	3829378.1	16.4	Munitions Debris	1	6	m583a1 flare expended
285	C3J1E8	10/16/08	C3J1E8-00126	275425.8	3829366.2	16.2	Cultural Debris	1	2	
286	C3J1E8	10/20/08	C3J1E8-00127	275408.2	3829388.4	16	Munitions Debris	1	4	m49 mounting bracket
287	C3J1E8	10/15/08	C3J1E8-00128	275449.8	3829368	16	Munitions Debris	1	6	M-22 ground signal flare tube
288	C3J1E8	10/21/08	C3J1E8-00129	275415.9	3829383.3	15.8	Cultural Debris	2	4	
289	C3J1E8	10/15/08	C3J1E8-00130	275445.6	3829374	15.7	Cultural Debris	1	12	
290	C3J1E8	10/20/08	C3J1E8-00131	275407.7	3829392.1	15.6	Cultural Debris	1	2	
291	C3J1E8	10/16/08	C3J1E8-00132	275427.2	3829350.1	15.5	Cultural Debris	1	7	
292	C3J1E8	10/15/08	C3J1E8-00133	275428.8	3829397.7	15.4	Cultural Debris	1	6	
293	C3J1E8	10/20/08	C3J1E8-00134	275430.4	3829363.8	15.4	Cultural Debris	7	4	
294	C3J1E8	10/20/08	C3J1E8-00135	275404	3829395.2	15.1	Cultural Debris	1	1	
295	C3J1E8	10/23/08	C3J1E8-00136	275443.4	3829368	14.9	Cultural Debris	1	4	
296	C3J1E8	10/22/08	C3J1E8-00137	275442.9	3829399.1	14.8	Cultural Debris	1		
297	C3J1E8	10/16/08	C3J1E8-00138	275424.4	3829354.8	14.7	Cultural Debris	1	4	
298	C3J1E8	10/16/08	C3J1E8-00139	275414.7	3829364.8	14.6	Cultural Debris	3	4	
299	C3J1E8	10/20/08	C3J1E8-00140	275410.6	3829396.8	14.2	Cultural Debris	1	2	
300	C3J1E8	10/16/08	C3J1E8-00141	275418.2	3829376.8	13.6	Cultural Debris	1	14	
301	C3J1E8	10/20/08	C3J1E8-00142	275407.6	3829397.6	13.3	Cultural Debris	2	2	
302	C3J1E8	10/23/08	C3J1E8-00143	275449.8	3829384	13.1	Cultural Debris	1	24	
303	C3J1E8	10/14/08	C3J1E8-00144	275440.4	3829350.1	13	Cultural Debris	1	12	
304	C3J1E8	10/16/08	C3J1E8-00145	275427.9	3829362.4	12.8	Cultural Debris	1	4	

TABLE A-3

Phase II DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Type	Quantity	Depth (inches)	Comment
305	C3J1E8	10/20/08	C3J1E8-00146	275413.6	3829374.8	12.7	Cultural Debris	1	18	
306	C3J1E8	10/21/08	C3J1E8-00147	275432.6	3829370.2	12.7	Cultural Debris	1	3	
307	C3J1E8	10/15/08	C3J1E8-00149	275443.2	3829358	12.3	Cultural Debris	1	3	
308	C3J1E8	10/23/08	C3J1E8-00150	275438.7	3829399.9	12.3	Cultural Debris	5	6	
309	C3J1E8	10/15/08	C3J1E8-00152	275432.8	3829385.6	12.1	Cultural Debris	2	8	
310	C3J1E8	10/15/08	C3J1E8-00153	275431.8	3829380	12	Cultural Debris	3	6	
311	C3J1E8	10/21/08	C3J1E8-00154	275418.2	3829398.2	12	Cultural Debris	11	3	
312	C3J1E8	10/15/08	C3J1E8-00155	275431.4	3829364.3	11.8	Cultural Debris	2	8	
313	C3J1E8	10/20/08	C3J1E8-00156	275402.2	3829393.4	11.7	Cultural Debris	3	12	
314	C3J1E8	10/27/08	C3J1E8-00157	275419	3829382	11.6	Cultural Debris	0		
315	C3J1E8	10/15/08	C3J1E8-00158	275432.6	3829365.8	11.4	Cultural Debris	3	8	
316	C3J1E8	10/20/08	C3J1E8-00159	275406.5	3829362.9	11.4	Cultural Debris	1	6	
317	C3J1E8	10/14/08	C3J1E8-00160	275438.1	3829353.9	11.3	Cultural Debris	1	2	wire
318	C3J1E8	10/15/08	C3J1E8-00161	275446.6	3829374.9	11.3	Cultural Debris	1	6	
319	C3J1E8	10/21/08	C3J1E8-00162	275412.8	3829377.8	11.1	Munitions Debris	1	3	m49a1 trip flare mounting bracket
320	C3J1E8	10/21/08	C3J1E8-00163	275401.4	3829376.7	11	Cultural Debris	1	2	
321	C3J1E8	10/16/08	C3J1E8-00164	275418	3829372.2	10.8	Cultural Debris	1	12	
322	C3J1E8	10/21/08	C3J1E8-00165	275416	3829379.2	10.8	Cultural Debris	2	24	
323	C3J1E8	10/23/08	C3J1E8-00166	275437.7	3829399.1	10.8	Cultural Debris	5	6	
324	C3J1E8	10/15/08	C3J1E8-00167	275444	3829394.2	10.6	Cultural Debris	1	5	
325	C3J1E8	10/16/08	C3J1E8-00168	275429.6	3829359.3	10.6	Cultural Debris	1	6	
326	C3J1E8	10/20/08	C3J1E8-00169	275407.5	3829398.8	10.5	Munitions Debris	1	12	40mm flare cartridge expended
327	C3J1E8	10/21/08	C3J1E8-00170	275409	3829379.8	10.3	Cultural Debris	1	6	
328	C3J1E8	10/21/08	C3J1E8-00171	275434.2	3829380.4	10.2	Cultural Debris	2	6	
329	C3J1E8	10/21/08	C3J1E8-00172	275435	3829374.9	10.2	Cultural Debris	1	6	
330	C3J1E8	10/15/08	C3J1E8-00173	275428.2	3829397	9.9	Cultural Debris	1	6	
331	C3J1E8	10/15/08	C3J1E8-00174	275443.6	3829390.6	9.9	Cultural Debris	1	6	
332	C3J1E8	10/15/08	C3J1E8-00175	275432.6	3829363.6	9.8	Cultural Debris	1	6	
333	C3J1E8	10/21/08	C3J1E8-00176	275433.7	3829368.7	9.4	Cultural Debris	2	4	
334	C3J1E8	10/15/08	C3J1E8-00177	275427.4	3829371.2	9.3	Cultural Debris	2	6	
335	C3J1E8	10/15/08	C3J1E8-00179	275424.3	3829389.4	9.2	Cultural Debris	1	6	
336	C3J1E8	10/20/08	C3J1E8-00180	275413.1	3829375.8	9	Cultural Debris	3	2	
337	C3J1E8	10/16/08	C3J1E8-00181	275426.6	3829368.4	9	Cultural Debris	3	6	
338	C3J1E8	10/16/08	C3J1E8-00182	275414.5	3829369.2	8.9	Cultural Debris	1	5	
339	C3J1E8	10/15/08	C3J1E8-00183	275449.9	3829370.7	8.9	Cultural Debris	1		
340	C3J1E8	10/16/08	C3J1E8-00184	275426	3829357.6	8.9	Cultural Debris	1	6	
341	C3J1E8	10/15/08	C3J1E8-00185	275446.2	3829396.8	8.8	Cultural Debris	2	10	

TABLE A-3

Phase II DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Type	Quantity	Depth (inches)	Comment
342	C3J1E8	10/20/08	C3J1E8-00186	275420.5	3829394.5	8.7	Cultural Debris	1	6	
343	C3J1E8	10/16/08	C3J1E8-00187	275420.6	3829353.4	8.5	Cultural Debris	1	6	
344	C3J1E8	10/15/08	C3J1E8-00188	275446.6	3829360.2	8.5	Cultural Debris	1	6	
345	C3J1E8	10/15/08	C3J1E8-00189	275444.2	3829377	8.4	Cultural Debris	1	6	
346	C3J1E8	10/14/08	C3J1E8-00190	275439.2	3829387.6	8.4	Cultural Debris	1	2	
347	C3J1E8	10/15/08	C3J1E8-00191	275437.8	3829356.8	8.4	Cultural Debris	1	6	
348	C3J1E8	10/16/08	C3J1E8-00192	275426.6	3829355.2	8.4	Cultural Debris	1	6	
349	C3J1E8	10/16/08	C3J1E8-00193	275421.9	3829355.8	8.3	Cultural Debris	1	6	
350	C3J1E8	10/16/08	C3J1E8-00194	275424.9	3829357.4	8.3	Cultural Debris	2	0	
351	C3J1E8	10/23/08	C3J1E8-00195	275444.6	3829367.8	8.2	No Find	0		
352	C3J1E8	10/15/08	C3J1E8-00196	275447.8	3829360.2	8.2	Cultural Debris	1	6	
353	C3J1E8	10/16/08	C3J1E8-00197	275420.5	3829374.7	8.1	Cultural Debris	1	3	
354	C3J1E8	10/22/08	C3J1E8-00198	275449.1	3829390.2	8.1	Cultural Debris	1		
355	C3J1E8	10/14/08	C3J1E8-00199	275441.3	3829389.8	8	Cultural Debris	2	2	
356	C3J1E8	10/15/08	C3J1E8-00200	275422.6	3829387.9	7.6	Cultural Debris	2	6	
357	C3J1E8	10/21/08	C3J1E8-00201	275408.2	3829382	7.5	Cultural Debris	1	1	
358	C3J1E8	10/15/08	C3J1E8-00202	275429.6	3829366.3	7.4	Cultural Debris	1	6	
359	C3J1E8	10/15/08	C3J1E8-00203	275424.2	3829381.4	7.4	Cultural Debris	1	4	
360	C3J1E8	10/16/08	C3J1E8-00204	275431.2	3829358.4	7.3	Cultural Debris	2	4	
361	C3J1E8	10/15/08	C3J1E8-00205	275430	3829367.3	7.2	Cultural Debris	1	4	
362	C3J1E8	10/16/08	C3J1E8-00206	275424.2	3829351.2	7.2	Cultural Debris	1	4	
363	C3J1E8	10/21/08	C3J1E8-00207	275402.2	3829382.2	7	Cultural Debris	1	3	
364	C3J1E8	10/21/08	C3J1E8-00208	275434.1	3829370.3	7	Cultural Debris	2	1	
365	C3J1E8	10/15/08	C3J1E8-00209	275443.4	3829393.4	7	Cultural Debris	2	12	
366	C3J1E8	10/16/08	C3J1E8-00210	275423.6	3829358.8	6.9	Cultural Debris	2	4	
367	C3J1E8	10/16/08	C3J1E8-00211	275419.9	3829360.3	6.6	Cultural Debris	2	12	
368	C3J1E8	10/14/08	C3J1E8-00212	275442.4	3829386.4	6.6	Cultural Debris	1	4	
369	C3J1E8	10/20/08	C3J1E8-00213	275406.8	3829355.4	6.4	Cultural Debris	1	6	
370	C3J1E8	10/16/08	C3J1E8-00214	275436	3829351.6	6.3	Cultural Debris	1	6	
371	C3J1E8	10/23/08	C3J1E8-00215	275445.8	3829372.5	6.2	Cultural Debris	1	14	
372	C3J1E8	10/21/08	C3J1E8-00216	275409.6	3829386.9	6.2	Cultural Debris	1	3	
373	C3J1E8	10/16/08	C3J1E8-00217	275428.8	3829350	6.1	Cultural Debris	4	2	
374	C3J1E8	10/20/08	C3J1E8-00218	275407.6	3829356.2	6.1	Cultural Debris	1	4	
375	C3J1E8	10/15/08	C3J1E8-00219	275445.5	3829392.1	6.1	Cultural Debris	1	8	
376	C3J1E8	10/15/08	C3J1E8-00220	275442.6	3829363.2	6	Cultural Debris	1	6	
377	C3J1E8	10/14/08	C3J1E8-00221	275447.4	3829387.4	5.9	Cultural Debris	2	2	
378	C3J1E8	10/16/08	C3J1E8-00222	275426.6	3829364.2	5.9	Cultural Debris	2	3	
379	C3J1E8	10/21/08	C3J1E8-00223	275435	3829370.8	5.8	Cultural Debris	2	4	
380	C3J1E8	10/16/08	C3J1E8-00224	275419.6	3829380	5.8	Cultural Debris	3	10	

TABLE A-3

Phase II DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Type	Quantity	Depth (inches)	Comment
381	C3J1E8	10/20/08	C3J1E8-00225	275420.4	3829395.8	5.7	Cultural Debris	1	4	
382	C3J1E8	10/23/08	C3J1E8-00226	275445.5	3829381	5.7	Cultural Debris	1	3	
383	C3J1E8	10/21/08	C3J1E8-00227	275408.2	3829387	5.6	Cultural Debris	1	3	
384	C3J1E8	10/15/08	C3J1E8-00228	275430.4	3829369.6	5.6	Cultural Debris	6	10	
385	C3J1E8	10/15/08	C3J1E8-00229	275426.6	3829372	5.5	Small Arms Ammunition	2	8	.50 cal links
386	C3J1E8	10/15/08	C3J1E8-00230	275449.2	3829373.2	5.4	Cultural Debris	1	1	in mound
387	C3J1E8	10/16/08	C3J1E8-00231	275413	3829371.4	5.4	Cultural Debris	1	4	
388	C3J1E8	10/21/08	C3J1E8-00232	275432.6	3829371	5.4	Cultural Debris	1	3	
389	C3J1E8	10/23/08	C3J1E8-00233	275449.9	3829394.9	5.3	No Find	0		
390	C3J1E8	10/20/08	C3J1E8-00234	275419	3829352	5.3	Cultural Debris	1	2	
391	C3J1E8	10/16/08	C3J1E8-00235	275428	3829351	5.3	Cultural Debris	2	6	
392	C3J1E8	10/23/08	C3J1E8-00236	275449.9	3829381.7	5.2	Cultural Debris	2	0	
393	C3J1E8	10/21/08	C3J1E8-00237	275411.4	3829394.4	5.2	Cultural Debris	2	4	
394	C3J1E8	10/16/08	C3J1E8-00238	275435.8	3829353.2	5.2	Cultural Debris	3	4	
395	C3J1E8	10/20/08	C3J1E8-00239	275403	3829362.4	5.2	Cultural Debris	2	12	
396	C3J1E8	10/14/08	C3J1E8-00240	275441.4	3829352.6	5.2	Cultural Debris	1	0	wire
397	C3J1E8	10/14/08	C3J1E8-00241	275438.1	3829358.4	5.1	Cultural Debris	1	4	
398	C3J1E8	10/20/08	C3J1E8-00242	275403	3829357	5.1	Cultural Debris	1	10	
399	C3J1E8	10/16/08	C3J1E8-00243	275416.8	3829371.6	5.1	Cultural Debris	1	8	
400	C3J1E8	10/21/08	C3J1E8-00244	275435.2	3829373.6	5.1	Cultural Debris	2	3	
401	C3J1E8	10/16/08	C3J1E8-00245	275412.2	3829367.4	5.1	Cultural Debris	1	2	
402	C3J1E8	10/16/08	C3J1E8-00246	275426.8	3829354.3	5	Cultural Debris	1	12	
403	C3J1E8	10/27/08	C3J1E8-00247	275442.4	3829366	5	Cultural Debris	0		
404	C3J1E8	10/15/08	C3J1E8-00248	275444.5	3829354.9	5	Cultural Debris	1	2	
405	C3J1E8	10/22/08	C3J1E8-00249	275436.4	3829382.6	5	Cultural Debris	3	6	
406	C3J1E8	10/15/08	C3J1E8-00250	275421	3829383.6	5	Cultural Debris	1	8	
407	C3J1E8	10/15/08	C3J1E8-00251	275428.2	3829392.4	5	Cultural Debris	1	10	
408	C3J1E8	10/15/08	C3J1E8-00252	275427.4	3829391.7	4.9	Cultural Debris	1	3	
409	C3J1E8	10/20/08	C3J1E8-00253	275400	3829352.2	4.8	Cultural Debris	1	4	
410	C3J1E8	10/16/08	C3J1E8-00254	275428	3829357	4.8	Cultural Debris	1	4	
411	C3J1E8	10/15/08	C3J1E8-00255	275440.2	3829380.6	4.8	Cultural Debris	1	6	
412	C3J1E8	10/21/08	C3J1E8-00257	275418.8	3829377.7	4.7	Cultural Debris	8	4	
413	C3J1E8	10/15/08	C3J1E8-00258	275445.8	3829357.6	4.7	Cultural Debris	1	3	
414	C3J1E8	10/16/08	C3J1E8-00259	275430.4	3829361	4.7	Cultural Debris	2	10	
415	C3J1E8	10/16/08	C3J1E8-00260	275428.2	3829365.8	4.6	Cultural Debris	3	4	
416	C3J1E8	10/20/08	C3J1E8-00261	275400.1	3829360.8	4.6	Cultural Debris	2	6	
417	C3J1E8	10/20/08	C3J1E8-00262	275419.8	3829350.8	4.5	Cultural Debris	1	6	
418	C3J1E8	10/15/08	C3J1E8-00263	275429.4	3829376.8	4.5	Munitions Debris	1	8	m49a1 trip fuze expended

TABLE A-3

Phase II DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Type	Quantity	Depth (inches)	Comment
419	C3J1E8	10/27/08	C3J1E8-00264	275440.3	3829397.8	4.4	Cultural Debris	0		
420	C3J1E8	10/21/08	C3J1E8-00265	275416	3829386	4.4	Cultural Debris	1	4	
421	C3J1E8	10/21/08	C3J1E8-00266	275400.1	3829375	4.3	Cultural Debris	1	4	
422	C3J1E8	10/21/08	C3J1E8-00267	275401.6	3829369.6	4.3	Cultural Debris	1	2	
423	C3J1E8	10/20/08	C3J1E8-00268	275408.2	3829359.5	4.2	Cultural Debris	1	6	
424	C3J1E8	10/23/08	C3J1E8-00269	275449.4	3829394	4.2	Cultural Debris	1	2	
425	C3J1E8	10/15/08	C3J1E8-00270	275448.4	3829353.2	4.2	Cultural Debris	1	8	
426	C3J1E8	10/16/08	C3J1E8-00271	275415.2	3829362.8	4.2	Cultural Debris	1	8	
427	C3J1E8	10/20/08	C3J1E8-00272	275428.2	3829373.4	4.2	Cultural Debris	2	13	
428	C3J1E8	10/27/08	C3J1E8-00273	275423.4	3829385.8	4.1	Cultural Debris	1	6	
429	C3J1E8	10/15/08	C3J1E8-00274	275443.4	3829372.9	4.1	Cultural Debris	1	12	
430	C3J1E8	10/15/08	C3J1E8-00275	275431	3829399.6	4.1	Cultural Debris	1	12	
431	C3J1E8	10/21/08	C3J1E8-00276	275415.7	3829395.7	4.1	Cultural Debris	1	24	
432	C3J1E8	10/23/08	C3J1E8-00277	275447.9	3829377.6	4.1	Cultural Debris	1	0	
433	C3J1E8	10/15/08	C3J1E8-00278	275441.9	3829371.3	4	Cultural Debris	1	4	
434	C3J1E8	10/15/08	C3J1E8-00279	275427.4	3829399	4	Cultural Debris	1	7	
435	C3J1E8	10/20/08	C3J1E8-00280	275400.8	3829351.4	3.9	Cultural Debris	1	6	
436	C3J1E8	10/16/08	C3J1E8-00281	275412.2	3829365.6	3.8	Cultural Debris	1	2	
437	C3J1E8	10/15/08	C3J1E8-00282	275424.2	3829384.2	3.8	Munitions Debris	1	10	trip flare expended
438	C3J1E8	10/22/08	C3J1E8-00283	275439.4	3829369.6	3.8	No Find	0		
439	C3J1E8	10/20/08	C3J1E8-00284	275414.4	3829353	3.7	Cultural Debris	1	6	
440	C3J1E8	10/14/08	C3J1E8-00285	275440	3829390.4	3.7	Cultural Debris	1	2	
441	C3J1E8	10/15/08	C3J1E8-00286	275440.2	3829383.4	3.7	Cultural Debris	1	6	
442	C3J1E8	10/20/08	C3J1E8-00287	275400.1	3829353.5	3.7	Cultural Debris	1	6	
443	C3J1E8	10/21/08	C3J1E8-00288	275416.8	3829397.6	3.7	Cultural Debris	1	0	
444	C3J1E8	10/16/08	C3J1E8-00290	275431.4	3829350.6	3.7	Cultural Debris	1	2	
445	C3J1E8	10/16/08	C3J1E8-00291	275419	3829359.2	3.7	Cultural Debris	2	6	
446	C3J1E8	10/20/08	C3J1E8-00292	275413.4	3829357.2	3.6	Cultural Debris	2	0	
447	C3J1E8	10/14/08	C3J1E8-00293	275446.2	3829386.8	3.5	Cultural Debris	1	8	
448	C3J1E8	10/15/08	C3J1E8-00294	275446.6	3829361.6	3.5	Cultural Debris	1	6	
449	C3J1E8	10/14/08	C3J1E8-00295	275436.6	3829360.5	3.5	Cultural Debris	1	2	nail
450	C3J1E8	10/16/08	C3J1E8-00296	275411.4	3829368.2	3.5	Cultural Debris	1	4	
451	C3J1E8	10/15/08	C3J1E8-00297	275429.6	3829379.8	3.5	Cultural Debris	1	6	
452	C3J1E8	10/15/08	C3J1E8-00298	275438	3829371.4	3.5	Cultural Debris	1	5	
453	C3J1E8	10/16/08	C3J1E8-00299	275422.2	3829358.8	3.4	Cultural Debris	3	6	
454	C3J1E8	10/16/08	C3J1E8-00300	275427.2	3829366.2	3.4	Cultural Debris	2	6	
455	C3J1E8	10/16/08	C3J1E8-00301	275427.3	3829367.1	3.4	Cultural Debris	1	2	
456	C3J1E8	10/16/08	C3J1E8-00302	275416	3829359	3.4	Cultural Debris	1	6	

TABLE A-3

Phase II DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Type	Quantity	Depth (inches)	Comment
457	C3J1E8	10/14/08	C3J1E8-00303	275439	3829367.2	3.4	Small Arms Ammunition	1	2	5.56 cartridge
458	C3J1E8	10/15/08	C3J1E8-00304	275448.2	3829356.8	3.4	Cultural Debris	1	2	
459	C3J1E8	10/16/08	C3J1E8-00305	275422.1	3829374.9	3.4	Cultural Debris	3	3	
460	C3J1E8	10/15/08	C3J1E8-00306	275429.6	3829394.6	3.4	Cultural Debris	1	8	
461	C3J1E8	10/16/08	C3J1E8-00307	275433.4	3829357.2	3.3	Cultural Debris	2	4	
462	C3J1E8	10/15/08	C3J1E8-00308	275433.6	3829399.4	3.3	Cultural Debris	1	5	
463	C3J1E8	10/16/08	C3J1E8-00309	275416	3829362.2	3.3	Cultural Debris	1	6	
464	C3J1E8	10/15/08	C3J1E8-00310	275445.8	3829355.4	3.3	Cultural Debris	1	3	
465	C3J1E8	10/15/08	C3J1E8-00311	275441	3829375.4	3.3	Cultural Debris	1	6	
466	C3J1E8	10/15/08	C3J1E8-00312	275443	3829374.4	3.3	Cultural Debris	1	0	
467	C3J1E8	10/15/08	C3J1E8-00313	275445.4	3829394	3.3	Cultural Debris	1	4	
468	C3J1E8	10/22/08	C3J1E8-00314	275442.8	3829396.6	3.3	Cultural Debris	1		
469	C3J1E8	10/21/08	C3J1E8-00315	275416.8	3829384.8	3.3	Cultural Debris	1	6	
470	C3J1E8	10/21/08	C3J1E8-00316	275400.8	3829368.2	3.2	Cultural Debris	1	3	
471	C3J1E8	10/21/08	C3J1E8-00317	275405.2	3829396.2	3.2	Cultural Debris	1	6	
472	C3J1E8	10/16/08	C3J1E8-00318	275428.9	3829367.8	3.2	Cultural Debris	2	3	
473	C3J1E8	10/15/08	C3J1E8-00319	275426.6	3829387.8	3.1	Cultural Debris	1	4	
474	C3J1E8	10/16/08	C3J1E8-00320	275416.8	3829360.4	3.1	Cultural Debris	1	2	
475	C3J1E8	10/27/08	C3J1E8-00321	275416	3829391	3.1	Cultural Debris	1	6	brass, and previous dig
476	C3J1E8	10/15/08	C3J1E8-00322	275434.4	3829396.8	3.1	Cultural Debris	1	6	
477	C3J1E8	10/14/08	C3J1E8-00323	275443.4	3829366	3.1	Cultural Debris	1	2	
478	C3J1E8	10/15/08	C3J1E8-00324	275440	3829368	3.1	Cultural Debris	1	3	
479	C3J1E8	10/15/08	C3J1E8-00325	275425	3829382	3	Cultural Debris	1	5	
480	C3J1E8	10/14/08	C3J1E8-00326	275445	3829385.2	3	Cultural Debris	1	4	
481	C3J1E8	10/16/08	C3J1E8-00327	275419.9	3829355.7	3	No Find	0		
482	C3J1E8	10/15/08	C3J1E8-00329	275449.6	3829358	3	Cultural Debris	1	3	
483	C3J1E8	10/20/08	C3J1E8-00330	275406	3829359.9	3	Cultural Debris	1	4	
484	C3J1E8	10/16/08	C3J1E8-00331	275420.6	3829354.8	3	Cultural Debris	1	1	
485	C3J1E8	10/22/08	C3J1E8-00332	275403.6	3829391.8	3	Cultural Debris	3	4	
486	C3J1E8	10/15/08	C3J1E8-00333	275448	3829374.4	3	Munitions Debris	1	4	hand grenade pin
487	C3J1E8	10/20/08	C3J1E8-00334	275405.4	3829364.2	3	Cultural Debris	3	8	
488	C3J1E8	10/20/08	C3J1E8-00335	275410.6	3829371	3	Cultural Debris	1	12	
489	C3J1E8	10/16/08	C3J1E8-00336	275422.2	3829367.4	3	Cultural Debris	1	2	
490	C3J1E8	10/16/08	C3J1E8-00337	275431	3829360.2	3	Cultural Debris	2	5	
491	C3J1E8	10/20/08	C3J1E8-00338	275413.6	3829354.6	3	Cultural Debris	1	4	
492	C3J1E8	10/15/08	C3J1E8-00339	275432.6	3829398.8	3	Cultural Debris	1	7	
493	C3J1E8	10/15/08	C3J1E8-00340	275435.8	3829390.2	3	Cultural Debris	2	8	
494	C3J1E9	10/22/08	C3J1E9-00003	275449.7	3829400.1	597.8	Cultural Debris	1		

TABLE A-3

Phase II DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Type	Quantity	Depth (inches)	Comment
495	C3J1E9	10/21/08	C3J1E9-00006	275405.2	3829418	344.3	Cultural Debris	1	6	
496	C3J1E9	10/22/08	C3J1E9-00008	275401.4	3829418.1	265.4	No Find	0		
497	C3J1E9	10/22/08	C3J1E9-00010	275448.8	3829401.4	199.7	Cultural Debris	1		
498	C3J1E9	10/21/08	C3J1E9-00014	275408.3	3829418.7	145.7	No Find	0		
499	C3J1E9	10/22/08	C3J1E9-00016	275426.6	3829447	142.5	Cultural Debris	4	4	Phase I Dig Location
500	C3J1E9	10/22/08	C3J1E9-00023	275400.7	3829449.9	104.3	Cultural Debris	1	0	
501	C3J1E9	10/22/08	C3J1E9-00024	275442.5	3829407.3	96.8	Cultural Debris	1		
502	C3J1E9	10/21/08	C3J1E9-00031	275404.5	3829418.7	74.8	Cultural Debris	1	6	
503	C3J1E9	10/23/08	C3J1E9-00040	275449.9	3829402.2	47.5	Cultural Debris	1	1	
504	C3J1E9	10/16/08	C3J1E9-00044	275444.4	3829407.5	43.3	Cultural Debris	1	3	
505	C3J1E9	10/23/08	C3J1E9-00048	275400.1	3829406.6	38.3	Cultural Debris	3	1	
506	C3J1E9	10/21/08	C3J1E9-00049	275418.8	3829418.7	37.4	Cultural Debris	1	5	
507	C3J1E9	10/21/08	C3J1E9-00051	275404.5	3829417.3	34.2	Cultural Debris	1	6	
508	C3J1E9	10/22/08	C3J1E9-00052	275443.4	3829406.6	29.5	Cultural Debris	1		
509	C3J1E9	10/22/08	C3J1E9-00053	275444.8	3829400.4	27.2	Cultural Debris	1		
510	C3J1E9	10/21/08	C3J1E9-00056	275409.8	3829449.6	21.8	Cultural Debris	1	2	
511	C3J1E9	10/15/08	C3J1E9-00057	275441.7	3829401.9	19.8	Cultural Debris	1	6	
512	C3J1E9	10/20/08	C3J1E9-00058	275426.4	3829405.8	18.8	Cultural Debris	1	24	
513	C3J1E9	10/15/08	C3J1E9-00059	275423.6	3829402.8	18.3	Cultural Debris	1	6	
514	C3J1E9	10/20/08	C3J1E9-00060	275419.6	3829412.8	17.9	Cultural Debris	2	2	
515	C3J1E9	10/22/08	C3J1E9-00061	275405.4	3829421.1	17.4	Cultural Debris	1	2	
516	C3J1E9	10/21/08	C3J1E9-00062	275419	3829415.8	17.3	Cultural Debris	2	10	
517	C3J1E9	10/21/08	C3J1E9-00063	275413.7	3829400.2	17.1	Cultural Debris	1	12	
518	C3J1E9	10/16/08	C3J1E9-00064	275427.7	3829435	17	Cultural Debris	1	3	
519	C3J1E9	10/21/08	C3J1E9-00065	275401.6	3829413.4	16.9	No Find	0		> 24 inches
520	C3J1E9	10/20/08	C3J1E9-00066	275425	3829405.3	16.8	Cultural Debris	1	24	
521	C3J1E9	10/21/08	C3J1E9-00067	275409	3829417	16.6	Cultural Debris	1	5	
522	C3J1E9	10/21/08	C3J1E9-00069	275441.6	3829427.4	15.5	Cultural Debris	3	4	
523	C3J1E9	10/22/08	C3J1E9-00070	275401	3829414.2	15.1	Cultural Debris	1	18	
524	C3J1E9	10/15/08	C3J1E9-00071	275441.6	3829400.8	15	Cultural Debris	1	6	
525	C3J1E9	10/21/08	C3J1E9-00072	275416	3829406.5	14.6	Cultural Debris	1	4	
526	C3J1E9	10/22/08	C3J1E9-00073	275415.2	3829426	14.4	Cultural Debris	1	4	
527	C3J1E9	10/16/08	C3J1E9-00074	275422.1	3829437.7	14.3	Cultural Debris	1	0	
528	C3J1E9	10/21/08	C3J1E9-00075	275415.2	3829412.2	14.2	Cultural Debris	1	2	
529	C3J1E9	10/20/08	C3J1E9-00076	275426.8	3829403	14	Cultural Debris	1	12	
530	C3J1E9	10/20/08	C3J1E9-00077	275428.2	3829415	13.7	Cultural Debris	4	8	
531	C3J1E9	10/21/08	C3J1E9-00078	275405.4	3829405.6	12.9	Cultural Debris	3	4	
532	C3J1E9	10/20/08	C3J1E9-00079	275428.2	3829422.8	12.2	Cultural Debris	3	8	
533	C3J1E9	10/15/08	C3J1E9-00080	275432.6	3829409.4	12	Cultural Debris	1	0	

TABLE A-3

Phase II DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Type	Quantity	Depth (inches)	Comment
534	C3J1E9	10/27/08	C3J1E9-00081	275444.2	3829404.6	10.8	Cultural Debris	0		
535	C3J1E9	10/22/08	C3J1E9-00082	275400.1	3829418.7	10.5	Cultural Debris	1	8	
536	C3J1E9	10/15/08	C3J1E9-00084	275438	3829412	10.4	Cultural Debris	1	3	
537	C3J1E9	10/21/08	C3J1E9-00086	275412.9	3829407.6	10.3	No Find	0		
538	C3J1E9	10/15/08	C3J1E9-00087	275423.6	3829408.2	10.2	Cultural Debris	2	4	
539	C3J1E9	10/22/08	C3J1E9-00088	275445	3829437.4	10.1	Munitions Debris	2	10	MK1 grenade, practice, no fuze, expended
540	C3J1E9	10/21/08	C3J1E9-00089	275409.3	3829408.1	9.8	Cultural Debris	1	4	
541	C3J1E9	10/21/08	C3J1E9-00090	275405.2	3829413.2	9.8	Cultural Debris	1	2	
542	C3J1E9	10/21/08	C3J1E9-00091	275404.9	3829402.3	9.5	Cultural Debris	2	2	
543	C3J1E9	10/21/08	C3J1E9-00092	275412.2	3829417	9.5	Cultural Debris	1	3	
544	C3J1E9	10/15/08	C3J1E9-00093	275433.6	3829408.8	9.3	Munitions Debris	6	12	expended smoke grenade components
545	C3J1E9	10/21/08	C3J1E9-00094	275408.4	3829408.6	9.1	Cultural Debris	2	2	
546	C3J1E9	10/20/08	C3J1E9-00095	275432.8	3829421.6	8.8	Cultural Debris	1	12	
547	C3J1E9	10/22/08	C3J1E9-00096	275426	3829429.8	8.4	Cultural Debris	1	3	
548	C3J1E9	10/21/08	C3J1E9-00097	275406	3829401	8.3	Cultural Debris	4	0	
549	C3J1E9	10/21/08	C3J1E9-00098	275415.2	3829414.2	8.3	Cultural Debris	1	8	
550	C3J1E9	10/15/08	C3J1E9-00100	275419.8	3829408.2	8.3	Cultural Debris	4	8	
551	C3J1E9	10/21/08	C3J1E9-00102	275407	3829404.6	8	Cultural Debris	1	3	
552	C3J1E9	10/20/08	C3J1E9-00103	275427.2	3829422.3	8	Cultural Debris	3	8	
553	C3J1E9	10/21/08	C3J1E9-00104	275403	3829404.4	7.9	Cultural Debris	1	6	
554	C3J1E9	10/21/08	C3J1E9-00105	275411.7	3829423.7	7.7	Cultural Debris	1	6	
555	C3J1E9	10/21/08	C3J1E9-00106	275414.2	3829426.6	7.4	Cultural Debris	1	6	
556	C3J1E9	10/21/08	C3J1E9-00108	275417.6	3829420.4	7.3	Cultural Debris	2	3	
557	C3J1E9	10/21/08	C3J1E9-00109	275406.6	3829416.4	7.2	Cultural Debris	1	10	
558	C3J1E9	10/20/08	C3J1E9-00110	275434	3829422.2	7	Cultural Debris	1	0	
559	C3J1E9	10/16/08	C3J1E9-00111	275438.4	3829425.6	6.9	No Find	0		no find (in road)
560	C3J1E9	10/15/08	C3J1E9-00112	275443.2	3829402.2	6.8	Cultural Debris	1	0	
561	C3J1E9	10/22/08	C3J1E9-00113	275430.2	3829441.6	6.7	Cultural Debris	2	2	
562	C3J1E9	10/21/08	C3J1E9-00114	275402.2	3829400.2	6.6	Cultural Debris	2	4	
563	C3J1E9	10/21/08	C3J1E9-00115	275415.2	3829404.8	6.3	Cultural Debris	1	6	
564	C3J1E9	10/22/08	C3J1E9-00116	275442.7	3829404.4	6.3	Cultural Debris	1		
565	C3J1E9	10/15/08	C3J1E9-00117	275436.2	3829412	6.1	Cultural Debris	1	3	
566	C3J1E9	10/21/08	C3J1E9-00119	275411.4	3829419.8	5.9	Cultural Debris	1	4	
567	C3J1E9	10/22/08	C3J1E9-00120	275423.5	3829400.9	5.9	Munitions Debris	1	12	flare cartridge expended
568	C3J1E9	10/22/08	C3J1E9-00121	275441.3	3829403.3	5.9	Cultural Debris	1		
569	C3J1E9	10/22/08	C3J1E9-00122	275400.8	3829419.7	5.8	Cultural Debris	1	10	
570	C3J1E9	10/21/08	C3J1E9-00124	275408.4	3829406.4	5.7	Cultural Debris	1	3	

TABLE A-3

Phase II DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Type	Quantity	Depth (inches)	Comment
571	C3J1E9	10/16/08	C3J1E9-00125	275448.6	3829404.2	5.7	Cultural Debris	1	8	
572	C3J1E9	10/21/08	C3J1E9-00126	275420.6	3829415.5	5.6	Cultural Debris	4	5	
573	C3J1E9	10/16/08	C3J1E9-00127	275422.8	3829439.2	5.5	Cultural Debris	1	5	
574	C3J1E9	10/15/08	C3J1E9-00128	275428.8	3829401.2	5.4	Cultural Debris	1	4	
575	C3J1E9	10/16/08	C3J1E9-00129	275442.3	3829420.3	5.3	Cultural Debris	3	0	
576	C3J1E9	10/21/08	C3J1E9-00130	275413	3829413.2	5.3	Cultural Debris	1	0	
577	C3J1E9	10/21/08	C3J1E9-00131	275412.2	3829412.4	5	Cultural Debris	1	4	
578	C3J1E9	10/15/08	C3J1E9-00132	275431	3829401.6	5	Cultural Debris	1	4	
579	C3J1E9	10/15/08	C3J1E9-00133	275428.3	3829408.1	5	Cultural Debris	3	0	
580	C3J1E9	10/21/08	C3J1E9-00134	275408.4	3829421.2	4.9	Cultural Debris	2	0	
581	C3J1E9	10/22/08	C3J1E9-00135	275402.3	3829447.8	4.8	Munitions Debris	1	0	m159 flare expended
582	C3J1E9	10/21/08	C3J1E9-00136	275420.6	3829421.8	4.7	Cultural Debris	2	3	
583	C3J1E9	10/22/08	C3J1E9-00137	275440.2	3829402.4	4.7	Cultural Debris	1		
584	C3J1E9	10/22/08	C3J1E9-00138	275426	3829446	4.6	Cultural Debris	2	5	
585	C3J1E9	10/21/08	C3J1E9-00139	275403.8	3829412	4.6	Cultural Debris	2	6	
586	C3J1E9	10/21/08	C3J1E9-00140	275406.8	3829401.8	4.5	Cultural Debris	1	3	
587	C3J1E9	10/22/08	C3J1E9-00141	275411	3829429	4.5	Cultural Debris	1	2	
588	C3J1E9	10/21/08	C3J1E9-00142	275408.8	3829404.2	4.5	Cultural Debris	1	2	
589	C3J1E9	10/15/08	C3J1E9-00143	275428	3829402	4.4	Cultural Debris	1	8	
590	C3J1E9	10/16/08	C3J1E9-00144	275429.8	3829434.8	4.4	Cultural Debris	1	2	
591	C3J1E9	10/16/08	C3J1E9-00145	275439	3829429.8	4.4	Cultural Debris	1	3	
592	C3J1E9	10/22/08	C3J1E9-00146	275449.8	3829449.8	4.3	No Find	1		
593	C3J1E9	10/22/08	C3J1E9-00147	275402	3829419.5	4.2	Cultural Debris	1	5	
594	C3J1E9	10/16/08	C3J1E9-00148	275444.4	3829415.8	4	Munitions Debris	1	5	grenade fuze expended
595	C3J1E9	10/21/08	C3J1E9-00149	275408.4	3829413.2	4	Cultural Debris	2	6	
596	C3J1E9	10/21/08	C3J1E9-00150	275414.4	3829416.4	4	Cultural Debris	1	4	
597	C3J1E9	10/21/08	C3J1E9-00151	275422.8	3829425.4	3.9	Cultural Debris	2	12	
598	C3J1E9	10/16/08	C3J1E9-00152	275424.4	3829412	3.9	Cultural Debris	1	3	
599	C3J1E9	10/21/08	C3J1E9-00153	275407.6	3829412.4	3.8	Cultural Debris	2	6	
600	C3J1E9	10/16/08	C3J1E9-00154	275431.1	3829432.3	3.8	Cultural Debris	2	4	
601	C3J1E9	10/22/08	C3J1E9-00155	275449	3829433.8	3.8	Cultural Debris	1	6	
602	C3J1E9	10/20/08	C3J1E9-00156	275431.2	3829416.8	3.8	Cultural Debris	2	5	
603	C3J1E9	10/22/08	C3J1E9-00157	275436.2	3829437.8	3.8	Cultural Debris	1	1	
604	C3J1E9	10/27/08	C3J1E9-00158	275422.8	3829429.6	3.8	Cultural Debris	0		
605	C3J1E9	10/16/08	C3J1E9-00159	275425	3829414	3.7	Cultural Debris	1	2	
606	C3J1E9	10/22/08	C3J1E9-00160	275420.2	3829433.6	3.6	Cultural Debris	1	0	
607	C3J1E9	10/16/08	C3J1E9-00161	275432	3829414	3.6	Cultural Debris	1	3	
608	C3J1E9	10/22/08	C3J1E9-00162	275406.6	3829441.2	3.6	No Find	0		
609	C3J1E9	10/16/08	C3J1E9-00163	275446.7	3829415.8	3.5	Cultural Debris	1	8	

TABLE A-3

Phase II DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Type	Quantity	Depth (inches)	Comment
610	C3J1E9	10/16/08	C3J1E9-00164	275428.2	3829412.6	3.5	Cultural Debris	1	5	
611	C3J1E9	10/22/08	C3J1E9-00166	275419	3829433.4	3.4	Cultural Debris	1		
612	C3J1E9	10/20/08	C3J1E9-00167	275432.6	3829420	3.3	Cultural Debris	3	3	
613	C3J1E9	10/21/08	C3J1E9-00168	275413.8	3829423.4	3.3	Cultural Debris	1	1	
614	C3J1E9	10/16/08	C3J1E9-00169	275436.2	3829432.2	3.2	Cultural Debris	1	4	
615	C3J1E9	10/22/08	C3J1E9-00170	275446.7	3829428.2	3.2	Cultural Debris	1	6	
616	C3J1E9	10/16/08	C3J1E9-00171	275429.8	3829430.2	3.2	Cultural Debris	2	2	
617	C3J1E9	10/22/08	C3J1E9-00172	275416.8	3829416.8	3.2	Cultural Debris	1	2	
618	C3J1E9	10/21/08	C3J1E9-00173	275415.9	3829411.2	3.1	Cultural Debris	3	6	
619	C3J1E9	10/21/08	C3J1E9-00174	275404.6	3829404.4	3.1	Cultural Debris	1	3	
620	C3J1E9	10/15/08	C3J1E9-00175	275420.6	3829410.3	3.1	Cultural Debris	1	6	
621	C3J1E9	10/22/08	C3J1E9-00176	275402.1	3829440.2	3.1	Cultural Debris	1	2	
622	C3J1E9	10/15/08	C3J1E9-00177	275425.9	3829400.1	3.1	Cultural Debris	1	10	
623	C3J1E9	10/22/08	C3J1E9-00178	275403.8	3829423.6	3.1	No Find	0		
624	C3J1E9	10/22/08	C3J1E9-00179	275448.2	3829428.6	3.1	Munitions Debris	1	4	grenade fuze expended
625	C3J1E9	10/21/08	C3J1E9-00180	275406.8	3829410.4	3.1	Cultural Debris	3	2	
626	C3J1E9	10/22/08	C3J1E9-00181	275411.6	3829437.8	3	Cultural Debris	1	1	
627	C3J1E9	10/22/08	C3J1E9-00182	275409.8	3829423.2	3	Cultural Debris	1	0	
628	C3J1E9	10/16/08	C3J1E9-00183	275442.6	3829411	3	Munitions Debris	1	4	grenade fuze expended
629	C3J1E9	10/22/08	C3J1E9-00184	275445.8	3829430	3	Cultural Debris	1	4	
630	C3J1E9	10/27/08	C3J1E9-00186	275428.8	3829407.2	3	Cultural Debris	0		
631	C3J1E9	10/15/08	C3J1E9-00187	275434.2	3829406.4	3	Cultural Debris	2	12	
632	C3J1E9	10/22/08	C3J1E9-00188	275442.8	3829440.2	3	Cultural Debris	1	1	
633	C3J1E9	10/16/08	C3J1E9-00189	275433.8	3829434.5	3	Cultural Debris	1		axe head 4'E at 590mv
634	C3J1E9	10/16/08	C3J1E9-00190	275437.2	3829425.8	3	No Find	0		no find (in road)
635	C3J1E9	10/16/08	C3J1E9-00191	275434.2	3829414	3	Cultural Debris	1	6	
636	C3J1E9	10/21/08	C3J1E9-00192	275419	3829410.8	3	Cultural Debris	1	2	
637	C3J1F0	10/27/08	C3J1F0-00002	275453.5	3829462.3	16.2	Munitions Debris	1	10	M-22 ground signal flare, expended
638	C3J1F7	10/27/08	C3J1F7-00002	275450.6	3829338.2	9.6	Cultural Debris	0		
639	C3J1F7	10/14/08	C3J1F7-00003	275459.5	3829341.3	3.5	Cultural Debris	1	0	
640	C3J1F7	10/23/08	C3J1F7-00004	275456.7	3829346.1	3.5	Cultural Debris	1	2	
641	C3J1F7	10/23/08	C3J1F7-00005	275452	3829344.6	3.5	Cultural Debris	1	3	
642	C3J1F7	10/23/08	C3J1F7-00006	275452.3	3829349.7	3.3	No Find	0		
643	C3J1F8	10/15/08	C3J1F8-00004	275456.8	3829389.8	127.4	Small Arms Ammunition	200	6	pm ammo
644	C3J1F8	10/14/08	C3J1F8-00007	275450.2	3829385.4	27.8	Cultural Debris	1	10	
645	C3J1F8	10/15/08	C3J1F8-00009	275450.1	3829368.1	16	Munitions Debris	1		M-22 ground signal flare tube

TABLE A-3

Phase II DGM Intrusive Investigation Results

Former Gun Positions 41A and 41B

MCB Camp Lejeune, North Carolina

Dig Event ID	Grid	Date	ID	X Coordinates	Y Coordinates	Amplitude (mV)	Type	Quantity	Depth (inches)	Comment
646	C3J1F8	10/23/08	C3J1F8-00010	275451.7	3829393.4	14.3	Cultural Debris	1	1	
647	C3J1F8	10/14/08	C3J1F8-00011	275452.2	3829390	14.1	Cultural Debris	1	12	
648	C3J1F8	10/23/08	C3J1F8-00012	275450.2	3829384	12.8	Cultural Debris	1	24	
649	C3J1F8	10/15/08	C3J1F8-00013	275451.2	3829357.6	10.5	Cultural Debris	1	6	
650	C3J1F8	10/14/08	C3J1F8-00014	275459.6	3829364.5	9.9	Cultural Debris	1	4	
651	C3J1F8	10/14/08	C3J1F8-00015	275458.4	3829394.6	9.8	Cultural Debris	1	6	
652	C3J1F8	10/15/08	C3J1F8-00016	275450.3	3829370.8	9.1	Cultural Debris	1	12	
653	C3J1F8	10/22/08	C3J1F8-00017	275450.2	3829390.2	6.8	Cultural Debris	1		
654	C3J1F8	10/14/08	C3J1F8-00018	275452.6	3829386.2	6.1	Cultural Debris	1	0	
655	C3J1F8	10/14/08	C3J1F8-00020	275452.8	3829365	5.9	Cultural Debris	3	18	
656	C3J1F8	10/23/08	C3J1F8-00021	275450.2	3829394.6	5.1	Cultural Debris	2	0	
657	C3J1F8	10/23/08	C3J1F8-00022	275450.2	3829381.6	5.1	Cultural Debris	2	0	
658	C3J1F8	10/15/08	C3J1F8-00023	275452.8	3829363.7	4.5	Cultural Debris	2	3	
659	C3J1F8	10/14/08	C3J1F8-00024	275454.1	3829383.9	4	Cultural Debris	1	5	
660	C3J1F8	10/14/08	C3J1F8-00025	275453.4	3829388.8	3.8	Cultural Debris	1	4	
661	C3J1F8	10/15/08	C3J1F8-00026	275452.4	3829362.4	3.6	No Find	0		
662	C3J1F8	10/23/08	C3J1F8-00027	275453.6	3829395.2	3.5	Cultural Debris	1	1	
663	C3J1F8	10/14/08	C3J1F8-00028	275454.6	3829384.8	3.5	Cultural Debris	1	4	
664	C3J1F8	10/23/08	C3J1F8-00029	275452.4	3829395.2	3.4	Cultural Debris	1	2	
665	C3J1F8	10/15/08	C3J1F8-00030	275450.9	3829362.1	3.2	Cultural Debris	1	5	
666	C3J1F8	10/15/08	C3J1F8-00031	275452.6	3829376.4	3	Cultural Debris	1	3	
667	C3J1F8	10/14/08	C3J1F8-00032	275451.8	3829383.2	3	Cultural Debris	1	2	
668	C3J1F8	10/23/08	C3J1F8-00033	275452.7	3829399	3	Cultural Debris	1	1	
669	C3J1F8	10/27/08	C3J1F8-00034	275451.8	3829377.4	3	Cultural Debris	0		
670	C3J1F9	10/27/08	C3J1F9-00004	275450.8	3829402.2	57.5	Cultural Debris	0		
671	C3J1F9	10/14/08	C3J1F9-00005	275454.8	3829420.6	9.2	Small Arms Ammunition	1	6	40mm cartridge
672	C3J1F9	10/22/08	C3J1F9-00006	275450.3	3829437.9	8.2	Cultural Debris	1	4	
673	C3J1F9	10/23/08	C3J1F9-00007	275452.8	3829400.9	7.3	Cultural Debris	2	0	
674	C3J1F9	10/22/08	C3J1F9-00008	275453.2	3829438.4	5.2	Cultural Debris	1	6	
675	C3J1F9	10/14/08	C3J1F9-00010	275456	3829406.6	3.5	Cultural Debris	1	8	
676	C3J1F9	10/16/08	C3J1F9-00011	275453.1	3829404.5	3.3	Cultural Debris	2	5	
677	C3J1F9	10/14/08	C3J1F9-00012	275457	3829418.6	3.1	No Find	0		
678	C3J1F9	10/16/08	C3J1F9-00013	275450.1	3829405.4	3.1	Cultural Debris	1	4	

Appendix B
DD Form 1348-1As

DD FORM 1348-1A, JUL 91 ISSUE RELEASE/RECEIPT DOCUMENT S/N 0102-LF-114-5000

1	2	3	4	5	6	7	2	2	2	2	2	4	4	4	4	5	5	5	5	5	5	5	6	6	6	6	6	6	7	7	7	7	7	7	8	8																																																							
CODIT							QUANTITY					SUPPLEMENTARY ADDRESS					SING					DIS-TRIBU-TION					PRO-JECT					PRI					RDD EEA QLT E					ADV					RI					O/P					CMGT					UNIT PRICE					DOLLARS					CTS					1. TOTAL PRICE					2. SHIP FROM					3. SHIP TO				
RI FROM							M & S					UNITS					SING					DIS-TRIBU-TION					PRO-JECT					PRI					RDD EEA QLT E					ADV					RI					O/P					CMGT					DOLLARS					CTS					Former Gun Positions 41A & 41B Camp Lejeune, NC					Jacksonville Scrap Iron & Metal, Jacksonville, NC														
M & S							UNITS					SING					DIS-TRIBU-TION					PRO-JECT					PRI					RDD EEA QLT E					ADV					RI					O/P					CMGT					DOLLARS					CTS					4. MARK FOR Smelting																								
24 DOCUMENT NUMBER & SUFFIX (30-44) CH2MHill Contract # N62470-07-D-0501 Task Order 009																																	5. DOC					6. NMFC					7. FRT RATE					8. TYPE CARGO					9. PS																																						
25 NATIONAL STOCK NO & ADD (8-22)										10. QTY. REC'D					11. UP					12. UNIT WEIGHT					13. UNIT CUBE					14. UFC					15. SL																																																								
16. FREIGHT CLASSIFICATION NOMENCLATURE																																																																																											
17. ITEM NOMENCLATURE Scrap Metal																																																																																											
26 RIC (4-6) UI (23-24) QTY (25-29) CON CODE (71) DIST (55-56) UP (74-80)										18. TY CONT					19. NO CONT					20. TOTAL WEIGHT 26 Lb - Alum 520 Lb - Steel					21. TOTAL CUBE					22. RECEIVED BY David Roberts JAY SCRAP IRON					23. DATE RECEIVED 17 Sep 08																																																								
27 ADDITIONAL DATA																																																																																											

Print/Sign:

UXB International, Inc.
2020 Kraft Drive, Ste. 2100
Blacksburg, VA 24060
Phone: (540) 443-3700

UXB International, Inc.
2020 Kraft Drive, Ste. 2100
Blacksburg, VA 24060
(540) 443-3700

Certified By: *J Tomiko*
(James Tomiko)

Verified By: *Gary Cole*
(Gary Cole)

"This certifies that the AEDA residue, Range Residue and /or Explosive Contaminated property listed has been 100 percent properly inspected and to the best of our knowledge and belief, is inert and/or free of explosives or related materials."

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																																																																																								
UNIT PRICE												DOLLARS		CTS		1. TOTAL PRICE												2. SHIP FROM USA Envir. Camp Gejeane Project. Oldsmar, FL.												3. SHIP TO Jacksonville Recycling Jacksonville, NC																																																																																																																															
DOLLARS												CTS		4. MARK FOR												5. DOC DATE												6. NMFC												7. FRT RATE												8. TYPE CARGO												9. PS																																																																																													
QUANTITY												SUPPLEMENTARY ADDRESS												SITE												FUND												DISTRIBUTION												PROJECT												PRI												REEL												DEALTE												ADV												RI												O/P												COND												MGT											
Basic Material Content: <u>Scrap Metal Mixed</u>												Estimate Weight (lbs): <u>150</u>												Container ID No.: <u>1</u>												Seal ID No.: <u>N/A</u>												Site Address: <u>Camp Gejeane, NC</u>												Site Telephone No.: <u>678-300-2493</u>												16. FREIGHT CLASSIFICATION NOMENCLATURE <u>Scrap Metal Mixed</u>												17. ITEM NOMENCLATURE <u>Scrap Metal Mixed</u>												18. TY CONT <u>55 Drums</u>												19. NO CONT <u>1</u>												20. TOTAL WEIGHT <u>150 lbs</u>												21. TOTAL CUBE												22. RECEIVED BY <u>David C. [Signature]</u>												23. DATE RECEIVED <u>10/27/08</u>											

24. DOCUMENT NUMBER & SUFFIX (30-44)

25. NATIONAL STOCK NO. & ADD (8-22)

26. RIC (4-6)
LI (23-24)
QTY (25-28)
CON CODE (71)
DIST (55-56)
UP (74-80)

27. ADDITIONAL DATA

Certify By:

[Signature] Date: 10/27/08
UXO Technician III / Team Leader
CHRLES RODO

Verify By:

[Signature] Date: 10/27/08
Senior UXO Supervisor
G.W. Edwards

USA Environmental, Inc., 720 Brooker Creek Boulevard, Suite 204, Oldsmar, Florida 34677, Telephone: 813.343.6336, Fax: 813.343.637

1	2	3	4	5	6	7	23	24	25	26	27	28	29	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
UNIT PRICE	DOLLARS		CTS		1. TOTAL PRICE		2. SHIP FROM		3. SHIP TO																																								
DOLLARS	CTS						USA Environmental Camp Lejeune, NC		Bedford Bldg 904 Summit St Bedford IN 47421 47421																																								
4. MARK FOR																																																	
5. DOC DATE										6. NMFC					7. FRT RATE					8. TYPE CARGO					9. PS																								
27 OCT 2008																																																	
10. QTY. REC'D					11. UP					12. UNIT WEIGHT					13. UNIT CUBE					14. UFC					15. SL																								
16. FREIGHT CLASSIFICATION NOMENCLATURE																																																	
Munitions Scrap mix METALS																																																	
17. ITEM NOMENCLATURE																																																	
Munitions Scrap NON-HAZARD																																																	
18. TY CONT					19. NO CONT					20. TOTAL WEIGHT										21. TOTAL CUBE																													
22. RECEIVED BY																				23. DATE RECEIVED																													

Basic Material Content: Munitions Scrap mixed

Estimate Weight (lbs): 5

Container ID No.: 1 Seal ID No.: 856623 ?
856624

Site Address: Camp Lejeune, NC

Site Telephone No.: 678-300-2493

This certifies and verifies that the AEDA residue, Range Residue and/or Explosive Contaminated property listed has been 100 percent properly inspected and to the best of our knowledge and belief, is inert and/or free of explosives or related materials.

Certify By: [Signature] Date: 10/27/08
UXO Technician III / Team Leader

Verify By: [Signature] 10/27/08
[Signature] Date: 10/27/08
Senior UXO Supervisor

USA Environmental, Inc., 720 Brooker Creek Boulevard, Suite 204, Oldsmar, Florida 34677, Telephone: 813.343.6336, Fax: 813.343.637

24. DOCUMENT NUMBER & SUFFIX (30-44)

25. NATIONAL STOCK NO. & ADD (8-22)

26. RIC (4-6) UI (23-24) QTY (25-28) CON CODE (7-1) DIST (55-58) UP (74-80)

27. ADDITIONAL DATA

copy

PREVIOUS EDITION MAY BE USED

PerFORM (DLA)

Appendix C
Phase II MD Smelting Documentation



DEMIL METALS, INC.

P.O. Box 126
Glencoe, Illinois 60022
www.demilmetals.com

BLANKET END USE CERTIFICATION

UXO INSPECTED RANGE RESIDUE SCRAP
EX CAMP LEJEUNE, NC
10 LB

P.O.#: 592-2018-501

It is hereby certified that Bedford Recycling and Demil Metals, Inc., will comply with all applicable federal, state and local ordinances, and regulations with respect to the care, handling storage, shipment, resale, export, and other use of the material hereby purchased, and that he/she as a user in said materials is capable of complying with all applicable federal, state and local laws. It is further certified that the material will be recycled into new products by means of shredding and smelting within the continental United States of America and that the material will only be identifiable by its basic content. This certification is made in accordance with and subject to the penalties of Title 18, Section 1001, of the United States Code, Crimes and Criminal Procedures.

SIGNATURE:

Barry R. Schaffer

DATE: November 17, 2008

TITLE: President

COMPANY: DEMIL METALS, INC.



DEMIL METALS, INC.

P.O. Box 126
Glencoe, Illinois 60022
www.demilmetals.com

CERTIFICATE OF DESTRUCTION

To: Mr. Manok Synakorn
Project Manager
USA Environmental, Inc.
720 Brooker Creek Blvd, Suite 204
Oldsmar, Florida 34677

From: Barry R. Schaffer
President
Demil Metals, Inc.

Re: PO 592-2018-501
Demilitarization & Recycling of Camp Lejeune, NC Range Residues
10 LB.

I hereby certify that of the above referenced material shipped from Camp Lejeune, NC was demilitarized by means of shredding and smelting at Bedford Recycling, Inc. Bedford, IN and were only identifiable by their basic contents.

This certification is made in accordance with and subject to the penalties of law under the United States Code, Crimes and Criminal Procedures; Title 18, Section 1001.

Signature: 

Name: Barry R. Schaffer

Title: President

Company: Demil Metals, Inc.

Date: November 17, 2008

Appendix D
QA/QC Reports

INITIAL PHASE CHECK LIST

Contract No.: Task Order 009 MARSOC

Date: 8 Sep 08

Title and No. of Technical Section: IAW Section 7.0 SSWP/8 MWP and ORR

EQUIPMENT TESTING: Per ORR and previous work, UXB will not be required to go through GPO Prove Out.

Magnetometers will be checked daily with an Equipment Check Area to be established in close proximity to the work area. A record will be kept.

Description and Location of Work Inspected: Equipment Test

A. Key Personnel Present:

Name	Position	Company
WHITE, CLIF	UXOQCS	CH2M HILL
JIM TOMIKO	SUXOS	UXB INT.
GARY COLE	UXOSO/UXOQCS	UXB INT.
PETE VAN RIPER	UXO TECH II	UXB INT.
DAVID TYRER	UXO TEC I/GIS	UXB INT.
COLIN SULLIVAN	GIS	CH2M HILL

B. Materials being used are in strict compliance with the contract plans and specifications: Yes X_ No ___

If not, explain:

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes N/A No ___

If not, explain:

D. Workmanship is acceptable: Yes N/A ___ No ___

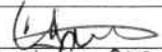
State where improvement is needed:

E. Workmanship is free of safety violations:
No _____

Yes N/A _____

If no, corrective action taken:

WHITE, CLIF


AS AGENT FOR CH2M HILL
UXOQA

FOLLOW UP CHECKLIST

Date: 09 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
EQUIPMENT CHECK, MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

CHECKED FUNCTION OF MAGNETOMETER IN ECA/VAN RIPER, PETE

QA Representative [Signature] Date 17 SEP 08
AS ABSENT FOR CH2M HILL

FOLLOW UP CHECKLIST

Date: 10 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
EQUIPMENT CHECK, MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

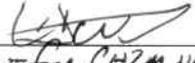
COLE, GARY

VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

CHECKED FUNCTION OF MAGNETOMETER IN ECA/VAN RIPER, PETE

QA Representative  Date 17SEP08
AS AGENT FOR CH2M HILL

FOLLOW UP CHECKLIST

Date: 11 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
EQUIPMENT CHECK, MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

CHECKED FUNCTION OF MAGNETOMETER IN ECA/VAN RIPER, PETE / Cole, Gary

EM-61/Tyrer

QA Representative  Date 17 SEP 08
AS AGENT for CH2M HILL

FOLLOW UP CHECKLIST

Date: 15 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
EQUIPMENT CHECK, MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

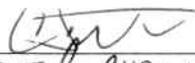
VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

CHECKED FUNCTION OF MAGNETOMETER IN ECA/VAN RIPER, PETE / Cole, Gary

Tyrer-EM61

QA Representative  Date 17 SEP 08
AS AGENT FOR CH2M HILL

FOLLOW UP CHECKLIST

Date: 16 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
EQUIPMENT CHECK, MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

VAN RIPER, PETE

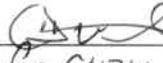
TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

CHECKED FUNCTION OF MAGNETOMETER IN ECA/VAN RIPER, PETE CHECKED BOTH MAGS

Tyrer-EM61

QA Representative



Date 17 SEP 08

AS AGENT FOR CH2M HILL

INITIAL PHASE CHECK LIST

Contract No.: Task Order 009 MARSOC

Date: 8 Sep 08

Title and No. of Technical Section: NOTE GIVEN-DFOW PG 2 OF 3

VERIFY THAT THE ANOMALY RECOVERED DURING INTRUSIVE OPERATIONS IS APPROPRIATE TO THE AMPLITUDE OF THE ANOMALY DETECTED DURING DGM N/A FOR THE FIELD TEAM. THIS NEEDS TO BE VERIFIED BY CH2M HILL GIS

Description and Location of Work Inspected: ANOMALY REAQUISITION

A. Key Personnel Present:

Name	Position	Company
WHITE, CLIF	UXOQCS	CH2M HILL
JIM TOMIKO	SUXOS	UXB INT.
GARY COLE	UXOSO/UXOQCS	UXB INT.
PETE VAN RIPER	UXO TECH II	UXB INT.
DAVID TYRER	UXO TEC I/GIS	UXB INT.
COLIN SULLIVAN	GIS	CH2M HILL

B. Materials being used are in strict compliance with the contract plans and specifications: Yes No

If not, explain: SEE ABOVE COMMENT

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes N/A No

If not, explain: UXB IS IN COMPLIANCE WITH THEIR SOW AS THEY ARE CHECKING THE EXCAVATION POST INTRUSIVE OPERATIONS TO ENSURE THAT THERE ARE NO FURTHER ANOMALIES PRESENT

D. Workmanship is acceptable: Yes N/A No

State where improvement is needed:

E. Workmanship is free of safety violations:

Yes N/A No ____

If no, corrective action taken:

WHITE, CLIF



AS AGENT FOR CH2M HILL
UXOQA

FOLLOW UP CHECKLIST

Date: 09 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
ANOMALY AMPLITUDE, MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

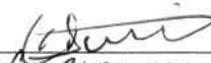
VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM IS CHECKING PROSECUTED ANOMALY LOCATIONS FOR ADDITIONAL ITEMS.

TOMIKO / VAN RIPER

QA Representative  Date 17SEP08
AS ABSENT FOR CH2M HILL

FOLLOW UP CHECKLIST

Date: 10 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
ANOMALY AMPLITUDE, MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM IS CHECKING PROSECUTED ANOMALY LOCATIONS FOR ADDITIONAL ITEMS.

TOMIKO / VAN RIPER

QA Representative (Signature) Date 17SEP08
AS AGENT FOR CH2M HILL

~~UXO QCS~~

FOLLOW UP CHECKLIST

Date: 11 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
ANOMALY AMPLITUDE, MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM IS CHECKING PROSECUTED ANOMALY LOCATIONS FOR ADDITIONAL ITEMS.

TOMIKO / VAN RIPER

QA Representative  Date 17 SEP 08
AS ABSENT for CH2M HILL

FOLLOW UP CHECKLIST

Date: 15 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
ANOMALY AMPLITUDE, MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM IS CHECKING PROSECUTED ANOMALY LOCATIONS FOR ADDITIONAL ITEMS.

TOMIKO / VAN RIPER

Cole/Tyrer- Using EM-61 for non ferrous digs

(Signature) 17 SEP 08
AS AGENT FOR CH2M HILL

FOLLOW UP CHECKLIST

Date: 16 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
ANOMALY AMPLITUDE, MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

VAN RIPER, PETE

TYRER, DAVID

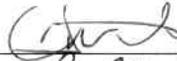
TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM IS CHECKING PROSECUTED ANOMALY LOCATIONS FOR ADDITIONAL ITEMS.

TOMIKO / VAN RIPER

Cole/Tyrer- Using EM-61 for non ferrous digs

QA Representative



Date: 17 SEP 08

AS AGENT FOR CH2M HILL

INITIAL PHASE CHECK LIST

Contract No.: Task Order 009 MARSOC

Date: 8 Sep 08

Title and No. of Technical Section: INSPECTIONS CONDUCTED IAW SSWP
DISCUSSED INSPECTION PROCESS/RESPONSIBILITIES

Description and Location of Work Inspected: INSPECTING MATERIAL RECOVERED DURING
INTRUSIVE OPERATIONS

A. Key Personnel Present:

Name	Position	Company
WHITE, CLIF	UXOQCS	CH2M HILL
JIM TOMIKO	SUXOS	UXB INT.
GARY COLE	UXOSO/UXOQCS	UXB INT.
PETE VAN RIPER	UXO TECH II	UXB INT.
DAVID TYRER	UXO TEC I/GIS	UXB INT.
COLIN SULLIVAN	GIS	CH2M HILL

B. Materials being used are in strict compliance with the contract plans and specifications: Yes No

If not, explain: _____

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes N/A No

If not, explain: _____

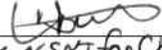
D. Workmanship is acceptable: Yes N/A No

State where improvement is needed: _____

E. Workmanship is free of safety violations: Yes N/A

No _____

If no, corrective action taken:

WHITE, CLIF 
AS AGENT FOR CHEM HILL
UXOQBSA

FOLLOW UP CHECKLIST

Date: 15 SEP 08
 Contractor: CH2M HILL / UXB
 Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT

Inspection of all debris

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

All debris has been inspected per ESS/SSWP/SSHAP

QA Representative *[Signature]* Date 17 SEP 08
AS AGENT FOR CH2M HILL

~~UXOQCS~~ _____ Date _____

FOLLOW UP CHECKLIST

Date: 09 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
MATERIAL INSPECTION, MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

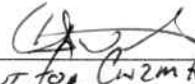
VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM 1 IS INSPECTING ITEMS RECOVERED AND WILL CONDUCT FURTHER INVESTIGATION LATER.

TOMIKO / VAN RIPER

QA Representative  Date 17 SEP 08
AS AGENT FOR CH2M HILL

~~UXO Q25: WHITE, CLIF~~

FOLLOW UP CHECKLIST

Date: 10 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
MATERIAL INSPECTION, MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM 1 IS INSPECTING ITEMS RECOVERED AND WILL CONDUCT FURTHER INVESTIGATION
LATER

TOMIKO / VAN RIPER

QA Representative *[Signature]* Date 17 SEP 08
AS AGENT FOR CH2M HILL

~~UXO QCS. WHITE, CLIF~~

FOLLOW UP CHECKLIST

Date: 11 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
MATERIAL INSPECTION, MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM 1 IS INSPECTING ITEMS RECOVERED AND WILL CONDUCT FURTHER INVESTIGATION
LATER

TOMIKO / VAN RIPER

QA Representative

Clif White
AS AGENT FOR CH2M HILL

Date 17 SEP 08

~~UXOCS WHITE, CLIF~~

FOLLOW UP CHECKLIST

Date: 15 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
MATERIAL INSPECTION, MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM 1 IS INSPECTING ITEMS RECOVERED AND WILL CONDUCT FURTHER INVESTIGATION
LATER

TOMIKO / VAN RIPER/Col

QA Representative *[Signature]* Date 17 SEP 08
AS AGENT FOR CH2M HILL

~~UXOQC/WHITE, CLIF~~

FOLLOW UP CHECKLIST

Date: 16 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
MATERIAL INSPECTION, MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM IS CONDUCTING FINAL SORT AND INSPECTION OF DEBRIS

Materials will meet "5X" Standards

QA Representative *Cliff White* Date 17 SEP 08
AS AGENT FOR CH2M HILL

~~UXO QA CLIF WHITE, CLIF~~

INITIAL PHASE CHECK LIST

Contract No.: Task Order 009 MARSOC

Date: 8 Sep 08

Title and No. of Technical Section: IAW APPLICABLE DOCUMENTS
REVIEWED AND UXB GIVEN COPY OF SSWP/ESS

Description and Location of Work Inspected: CERTIFACATION OF RECOVERED MATERIALS

A. Key Personnel Present:

Table with 3 columns: Name, Position, Company. Rows include WHITE, CLIF (UXOQCS, CH2M HILL), JIM TOMIKO (SUXOS, UXB INT.), GARY COLE (UXOSO/UXOQCS, UXB INT.), PETE VAN RIPER (UXO TECH II, UXB INT.), DAVID TYRER (UXO TEC I/GIS, UXB INT.), COLIN SULLIVAN (GIS, CH2M HILL).

B. Materials being used are in strict compliance with the contract plans and specifications: Yes X_ No ___

If not, explain: [Blank lines for explanation]

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes N/A No ___

If not, explain: [Blank lines for explanation]

D. Workmanship is acceptable: Yes N/A ___
No ___

State where improvement is needed: [Blank lines for explanation]

E. Workmanship is free of safety violations: Yes N/A ___
No ___

If no, corrective action taken:

WHITE, CLIF

[Handwritten Signature]
AS AGENT FOR CLIF HILL
UXOQ

FOLLOW UP CHECKLIST

Date: 17 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT

Certification of scrap

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

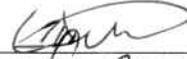
VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

All debris has been certified as "Free of Explosive Hazard" and documented on DD Form 1348

QA Representative



Date 17SEP08

AS AGENT FOR CH2M HILL

~~UXBQCS~~

~~DATE~~

INITIAL PHASE CHECK LIST

Contract No.: Task Order 009 MARSOC

Date: 8 Sep 08_____

Title and No. of Technical Section: IAW APPLICABLE DOCUMENTS
DISCUSSED EXPLOSIVE OPERATIONS AND ALSO DISPOSAL OF SCRAP MATERIALS

Description and Location of Work Inspected: N/A

A. Key Personnel Present:

Name	Position	Company
WHITE, CLIF	UXOQCS	CH2M HILL
JIM TOMIKO	SUXOS	UXB INT.
GARY COLE	UXOSO/UXOQCS	UXB INT.
PETE VAN RIPER	UXO TECH II	UXB INT.
DAVID TYRER	UXO TEC I/GIS	UXB INT.
COLIN SULLIVAN	GIS	CH2M HILL

B. Materials being used are in strict compliance with the contract plans and specifications: Yes No

If not, explain: _____

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes N/A No

If not, explain: _____

D. Workmanship is acceptable: Yes N/A No

State where improvement is needed: _____

E. Workmanship is free of safety violations: Yes N/A No

If no, corrective action taken:

WHITE, CLIF


AS AGENT FOR C&ZM, INC.
UXOQBA

FOLLOW UP CHECKLIST

Date: 17 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

**IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
DISPOSAL PROCESS OF SITE DEBIS AND MPPEH**

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

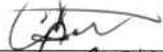
VAN RIPER, PETE

**TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests
taken)**

All metal debris was treated and meet the standards of 5X per the ESS/SSWP/SSHASP

Said metal scrap has been turned over to local scrap yard.

All MPPEH (SA blanks) have been turned over to Rifle Range AMMO Office under Amnesty Program. They will process per their SOP.

QA Representative  Date 17 SEP 08
NS AGENT FOR CH2M HILL

INITIAL PHASE CHECK LIST

Contract No.: Task Order 009 MARSOC

Date: 8 Sep 08 _____

Title and No. of Technical Section: IAW APPICABLE DOCUMENTS
HOLES TO FILLED DURING OPERATIONS -DISCUSSED

Description and Location of Work Inspected: N/A

A. Key Personnel Present:

Name	Position	Company
WHITE, CLIF	UXOQCS	CH2M HILL
JIM TOMIKO	SUXOS	UXB INT.
GARY COLE	UXOSO/UXOQCS	UXB INT.
PETE VAN RIPER	UXO TECH II	UXB INT.
DAVID TYRER	UXO TEC I/GIS	UXB INT.
COLIN SULLIVAN	GIS	CH2M HILL

B. Materials being used are in strict compliance with the contract plans and specifications: Yes X_ No ____

If not, explain: _____

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes N/A No ____

If not, explain: _____

D. Workmanship is acceptable: Yes N/A ____
No ____

State where improvement is needed: _____

E. Workmanship is free of safety violations: Yes N/A ____
No ____

If no, corrective action taken:

WHITE, CLIF

CLIF
AS AGENT FOR CHZM Hill
UXOQ88A

FOLLOW UP CHECKLIST

Date: 15 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
ANOMALY AMPLITUDE, MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

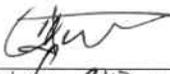
COLE, GARY

VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM IS policing up scrap and filling holes per the ESS/WP

QA Representative  Date 17 SEP 08
AS AGENT for CH2M HILL

FOLLOW UP CHECKLIST

Date: 16 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
ANOMALY AMPLITUDE, MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

Team has filled all holes. CH2M HILL will check fence signage after UXB departs

QA Representative

AS
AS AGENT FOR CH2M HILL

Date

17 SEP 08

INITIAL PHASE CHECK LIST

Contract No.: Task Order 009 MARSOC

Date: 8 Sep 08

Title and No. of Technical Section: IAW Section 4.6.5 SSWP/ESS AMEND 1

TEAM SEPERATION DISTANCE

SEPERATION DISTANCES AND EXCLUSION ZONES DISCUSSED AND CLARIFIED

Description and Location of Work Inspected: N/A

A. Key Personnel Present:

Name	Position	Company
WHITE, CLIF	UXOQCS	CH2M HILL
JIM TOMIKO	SUXOS	UXB INT.
GARY COLE	UXOSO/UXOQCS	UXB INT.
PETE VAN RIPER	UXO TECH II	UXB INT.
DAVID TYRER	UXO TEC I/GIS	UXB INT.
COLIN SULLIVAN	GIS	CH2M HILL

B. Materials being used are in strict compliance with the contract plans and specifications: Yes No

If not, explain: _____

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes N/A No

If not, explain: _____

D. Workmanship is acceptable: Yes N/A No

State where improvement is needed: _____

E. Workmanship is free of safety violations: Yes N/A No

If no, corrective action taken:

WHITE, CLIF

[Signature]
AS AGENT for Chem mill
UX0008 9

INITIAL PHASE CHECK LIST

Contract No.: Task Order 009 MARSOC

Date: 8 Sep 08 _____

Title and No. of Technical Section: IAW SSWP, SOPs, HSP
VERIFY OPERATIONS PER APPLICABLE DOCUMENTS ABOVE
OPERATIONS WERE DISCUSSED DURING KICK OFF MEETING

Description and Location of Work Inspected: INCLUSIVE

A. Key Personnel Present:

Name	Position	Company
WHITE, CLIF	UXOQCS	CH2M HILL
JIM TOMIKO	SUXOS	UXB INT.
GARY COLE	UXOSO/UXOQCS	UXB INT.
PETE VAN RIPER	UXO TECH II	UXB INT.
DAVID TYRER	UXO TEC I/GIS	UXB INT.
COLIN SULLIVAN	GIS	CH2M HILL

B. Materials being used are in strict compliance with the contract plans and specifications: Yes X_ No ____

If not, explain: _____

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes N/A No ____

If not, explain: _____

D. Workmanship is acceptable: Yes N/A ____
No ____

State where improvement is needed: _____

E. Workmanship is free of safety violations: Yes N/A ____
No ____

If no, corrective action taken:

WHITE, CLIF


AS AGENT FOR CHEM HILL
UX008A

FOLLOW UP CHECKLIST

Date: 09 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM 1 IS OBSERVING APPLICABLE TSD.

SEE ABOVE LIST FOR NAMES

QA Representative *[Signature]* Date 17 SEP 08
NS AGENT for CH2M HILL

FOLLOW UP CHECKLIST

Date: 10 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

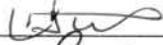
VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM 1 IS OBSERVING APPLICABLE TSD.

SEE ABOVE LIST OF NAMES

QA Representative  Date 17 SEP 08
NS AGENT FOR CH2M HILL

FOLLOW UP CHECKLIST

Date: 11 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM 1 IS OBSERVING APPLICABLE TSD.

SEE ABOVE LIST FOR NAMES

QA Representative AW Date 17 SEP 08
AS AGENT FOR CH2MHILL

FOLLOW UP CHECKLIST

Date: 15 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

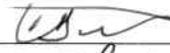
VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM 1 IS OBSERVERING APPLICABLE TSD.

SEE ABOVE LIST FOR NAMES

QA Representative  Date 17 SEP 08
AS AGENT for CH2M HILL

FOLLOW UP CHECKLIST

Date: 16 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

Only Excavation team operating today in conjunction w/QC

QA Representative *[Signature]* Date 17 SEP 08
AS AGENT for CH2M HILL

FOLLOW UP CHECKLIST

Date: 09 SEP 08

Contractor: CH2M HILL / UXB

Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

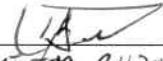
VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXB INT. IS PERFORMING WORK IAW APPLICABLE DOCUMENTS

QA Representative


AS AGENT FOR CH2M HILL

Date 17 SEP 08

FOLLOW UP CHECKLIST

Date: 10 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXB INT. IS PERFORMING WORK IAW APPLICABLE DOCUMENTS

QA Representative



Date 17 SEP 08

AS AGENT FOR CH2M HILL

FOLLOW UP CHECKLIST

Date: 11 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

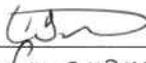
COLE, GARY

VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXB INT/UXO-01. IS PERFORMING WORK IAW APPLICABLE DOCUMENTS

QA Representative  Date 17SEP08
AS AGENT FOR CH2M HILL

FOLLOW UP CHECKLIST

Date: 15 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B

- WHITE, CLIF
- TOMIKO, JIM
- COLE, GARY
- VAN RIPER, PETE
- TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXB INT/UXO-01. IS PERFORMING WORK IAW APPLICABLE DOCUMENTS
Further discussion and clarification today

QA Representative *[Signature]* Date 17 Sep 08
AS AGENT for CH2M Hill

FOLLOW UP CHECKLIST

Date: 16 SEP 08
Contractor: CH2M HILL / UXB
Contract No: CTO-009 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B

WHITE, CLIF

TOMIKO, JIM

COLE, GARY

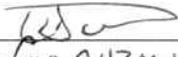
VAN RIPER, PETE

TYRER, DAVID

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXB INT/UXO-01. IS PERFORMING WORK IAW APPLICABLE DOCUMENTS

QA Representative

 Date 17 SEP 08
AS AGENT FOR CH2M HILL

FOLLOW UP CHECKLIST

Date: 14 Oct 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT

TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B
ONLY REAQUISITION TEAM RUNNING

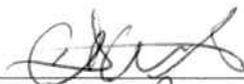
- CLIF WHITE
- GEORGE EDWARDS
- D. J. MOORE
- CHARLES BOBO
- CHAD LAWRENCE
- ROBERT SHAUGER
- JOHN CAPANO
- JACKIE JAMES
- ORVILLE JAMES
- DAWN WEBER

ROBER

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

USAE IS PERFORMING WORK IAW APPLICABLE DOCUMENTS AND DISCUSSING PROCESS
PROCEEDURE AS WE WORK THROUGH THE DAY.

QA Representative


AS AGENT FOR CH2M HILL

Date 14 OCT 08

FOLLOW UP CHECKLIST

Date: 15 Oct 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT

TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B
ONLY REAQUISITION TEAM RUNNING

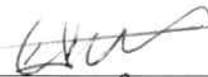
- CLIF WHITE
- GEORGE EDWARDS
- D. J. MOORE
- CHARLES BOBO
- CHAD LAWRENCE
- ROBERT SHAUGER
- JOHN CAPANO
- JACKIE JAMES
- ORVILLE JAMES
- DAWN WEBER

ROBER

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

USAE IS PERFORMING WORK IAW APPLICABLE DOCUMENTS AND DISCUSSING PROCESS
PROCEEDURE AS WE WORK THROUGH THE DAY.

QA Representative



Date 15 OCT 08

AS AGENT FOR CH2M HILL

FOLLOW UP CHECKLIST

Date: 16 Oct 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT

TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B
ONLY REAQUISITION TEAM RUNNING

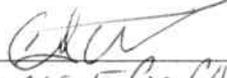
- CLIF WHITE
- GEORGE EDWARDS
- D. J. MOORE
- CHARLES BOBO
- CHAD LAWRENCE
- ROBERT SHAUGER
- JOHN CAPANO
- JACKIE JAMES
- ORVILLE JAMES
- DAWN WEBER

ROBER

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

USAE IS PERFORMING WORK IAW APPLICABLE DOCUMENTS AND DISCUSSING PROCESS
PROCEEDURE AS WE WORK THROUGH THE DAY.

It was discovered that the Reacquisition Team was marking the anomaly and flagging it per the WP. Change operation to flagging DGM location offset 1'N per ESS.

QA Representative  Date 16 OCT 08

AS AGENT FOR CH2M HILL

INITIAL PHASE CHECK LIST

Contract No.: Task Order 011 MARSOC

Date: 13 OCT 08

Title and No. of Technical Section: IAW APPICABLE DOCUMENTS
HOLES TO FILLED DURING OPERATIONS -DISCUSSED

Description and Location of Work Inspected: N/A

A. Key Personnel Present:

Name	Position	Company
WHITE, CLIF	UXOQCS	CH2M HILL
GEORGE EDWARDS	SUXOS	USAE
D.J. MOORE	UXOSO/UXOQCS	USAE

B. Materials being used are in strict compliance with the contract plans and specifications: Yes X_ No ___

If not, explain:

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes N/A No ___

If not, explain:

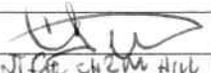
D. Workmanship is acceptable: Yes N/A ___
No ___

State where improvement is needed:

E. Workmanship is free of safety violations: Yes N/A ___
No ___

If no, corrective action taken:

WHITE, CLIF



AS AGENT FOR CH2M HILL U
UXOQA

FOLLOW UP CHECKLIST

Date: 13 OCT 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

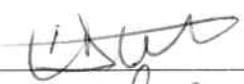
Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
ANOMALY AMPLITUDE, MARSOC GP 41 A&B

CLIF WHITE
GEORGE EDWARDS
D. J. MOORE
CHARLES BOBO
CHAD LAWRENCE
ROBERT SHAUGER
JOHN CAPANO
JACKIE JAMES
ORVILLE JAMES
DAWN WEBER

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM will policing up scrap and filling holes per the ESS/WP
No dig ops being conducted today

QA Representative  Date 13 OCT 08
AS AGENT for CH2M HILL

FOLLOW UP CHECKLIST

Date: 14 OCT 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

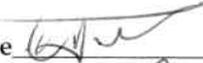
Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
ANOMALY AMPLITUDE, MARSOC GP 41 A&B

CLIF WHITE
GEORGE EDWARDS
D. J. MOORE
CHARLES BOBO
CHAD LAWRENCE
ROBERT SHAUGER
JOHN CAPANO
JACKIE JAMES
ORVILLE JAMES
DAWN WEBER

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM is policing up scrap and filling holes per the ESS/WP

QA Representative  Date 14 OCT 08
AS AGENT FOR CH2M HILL

FOLLOW UP CHECKLIST

Date: 15 OCT 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

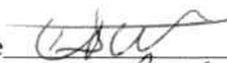
Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
ANOMALY AMPLITUDE, MARSOC GP 41 A&B

CLIF WHITE
GEORGE EDWARDS
D. J. MOORE
CHARLES BOBO
CHAD LAWRENCE
ROBERT SHAUGER
JOHN CAPANO
JACKIE JAMES
ORVILLE JAMES
DAWN WEBER

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM is policing up scrap and filling holes per the ESS/WP

QA Representative  Date 15 OCT 08
AS AGENT FOR CH2M HILL

FOLLOW UP CHECKLIST

Date: 16 OCT 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
ANOMALY AMPLITUDE, MARSOC GP 41 A&B

CLIF WHITE
GEORGE EDWARDS
D. J. MOORE
CHARLES BOBO
CHAD LAWRENCE
ROBERT SHAUGER
JOHN CAPANO
JACKIE JAMES
ORVILLE JAMES
DAWN WEBER

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM is policing up scrap and filling holes per the ESS/WP

QA Representative  Date 16 OCT 08
AS AGENT for CH2M HILL

INITIAL PHASE CHECK LIST

Contract No.: Task Order 011 MARSOC

Date: 13 OCT 08

Title and No. of Technical Section: IAW Section 4.6.5 SSWP/ESS AMEND 1

TEAM SEPERATION DISTANCE

SEPERATION DISTANCES AND EXCLUSION ZONES DISCUSSED AND CLARIFIED

Description and Location of Work Inspected: N/A

A. Key Personnel Present:

Name	Position	Company
WHITE, CLIF	UXOQCS	CH2M HILL
GEORGE EDWARDS	SUXOS	USAE
D.J. MOORE	UXOSO/UXOQCS	USAE

B. Materials being used are in strict compliance with the contract plans and specifications: Yes X_ No ____

If not, explain: _____

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes N/A No ____

If not, explain: _____

D. Workmanship is acceptable: Yes N/A ____

No ____

State where improvement is needed: _____

E. Workmanship is free of safety violations: Yes N/A ____

No ____

If no, corrective action taken:

WHITE, CLIF _____

UXOQA

FOLLOW UP CHECKLIST

Date: 13 Oct 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT

TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B
ONLY REAQUISITION TEAM RUNNING

- CLIF WHITE
- GEORGE EDWARDS
- D. J. MOORE
- CHARLES BOBO
- CHAD LAWRENCE
- ROBERT SHAUGER
- JOHN CAPANO
- JACKIE JAMES
- ORVILLE JAMES
- DAWN WEBER
- RICHARD McNeal

ROBERT

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

USAE IS PERFORMING WORK IAW APPLICABLE DOCUMENTS. TSD 17FT per ESS.

QA Representative  Date 13 OCT 08
AS AGENT FOR CH2M HILL

FOLLOW UP CHECKLIST

Date: 14 Oct 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT

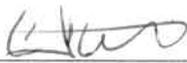
TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B
REQUISITON AND DIG TEAM OPS

- CLIF WHITE
- GEORGE EDWARDS
- D. J. MOORE
- CHARLES BOBO
- CHAD LAWRENCE
- ROBERT SHAUGER
- JOHN CAPANO
- JACKIE JAMES
- ORVILLE JAMES
- DAWN WEBER

ROBERT

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

USAE IS PERFORMING WORK IAW APPLICABLE DOCUMENTS. TSD 17FT per ESS.

QA Representative  Date 14 OCT 08
AS AGENT FOR CH2M HILL

FOLLOW UP CHECKLIST

Date: 15 Oct 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT

TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B
REQUISITON AND DIG TEAM OPS

- CLIF WHITE
- GEORGE EDWARDS
- D. J. MOORE
- CHARLES BOBO
- CHAD LAWRENCE
- ROBERT SHAUGER
- JOHN CAPANO
- JACKIE JAMES
- ORVILLE JAMES
- DAWN WEBER

~~ROBERT~~

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

USAE IS PERFORMING WORK LAW APPLICABLE DOCUMENTS. TSD 17FT per ESS.

QA Representative  Date 15 OCT 08
AS AGENT FOR CH2M HILL

FOLLOW UP CHECKLIST

Date: 16 Oct 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT

TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B
REQUISITON AND DIG TEAM OPS

- CLIF WHITE
- GEORGE EDWARDS
- D. J. MOORE
- CHARLES BOBO
- CHAD LAWRENCE
- ROBERT SHAUGER
- JOHN CAPANO
- JACKIE JAMES
- ORVILLE JAMES
- DAWN WEBER

~~ROBERT~~

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

USAE IS PERFORMING WORK IAW APPLICABLE DOCUMENTS. TSD 17FT per ESS.

QA Representative



Date 16 OCT 08

AS AGENT FOR CH2M HILL

INITIAL PHASE CHECK LIST

Contract No.: Task Order 011 MARSOC

Date: 13 OCT 08

Title and No. of Technical Section: INSPECTIONS CONDUCTED IAW SSWP
DISCUSSED INSPECTION PROCESS/REASONSIBILITIES

Description and Location of Work Inspected: INSPECTING MATERIAL RECOVERED DURING
INTRUSIVE OPERATIONS

A. Key Personnel Present:

Table with 3 columns: Name, Position, Company. Rows include WHITE, CLIF (UXOQCS, CH2M HILL), GEORGE EDWARDS (SUXOS, USAE), and D.J. MOORE (UXOSO/UXOQCS, USAE).

B. Materials being used are in strict compliance with the contract plans and specifications: Yes X No

If not, explain:

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes N/A No

If not, explain:

D. Workmanship is acceptable: Yes N/A No

State where improvement is needed:

E. Workmanship is free of safety violations: Yes N/A

No _____

If no, corrective action taken:

WHITE, CLIF 
AS AGENT FOR CH2M HILL
UXOQA

FOLLOW UP CHECKLIST

Date: 13 OCT 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

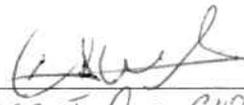
Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

**IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
MATERIAL INSPECTION, MARSOC GP 41 A&B**

CLIF WHITE
GEORGE EDWARDS
D. J. MOORE
CHARLES BOBO
CHAD LAWRENCE
ROBERT SHAUGER
JOHN CAPANO
JACKIE JAMES
ORVILLE JAMES
DAWN WEBER

**TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests
taken)**

UXO TEAM 1 WILL BE INSPECTING MATERIALS EXCAVATED PER SOW/WP
NO EXCAVATION OF HITS CONDUCTED TODAY

QA Representative  Date 13 OCT 08
AS AGENT FOR CH2M HILL

FOLLOW UP CHECKLIST

Date: 14 OCT 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

**IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
MATERIAL INSPECTION, MARSOC GP 41 A&B**

CLIF WHITE
GEORGE EDWARDS
D. J. MOORE
CHARLES BOBO
CHAD LAWRENCE
ROBERT SHAUGER
JOHN CAPANO
JACKIE JAMES
ORVILLE JAMES
DAWN WEBER

**TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests
taken)**

UXO TEAM 1 IS INSPECTING MATERIALS EXCAVATED PER SOW/WP

QA Representative  Date 14 OCT 08
AS AGENT FOR CH2M HILL

FOLLOW UP CHECKLIST

Date: 15 OCT 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

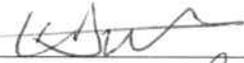
Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
MATERIAL INSPECTION, MARSOC GP 41 A&B

CLIF WHITE
GEORGE EDWARDS
D. J. MOORE
CHARLES BOBO
CHAD LAWRENCE
ROBERT SHAUGER
JOHN CAPANO
JACKIE JAMES
ORVILLE JAMES
DAWN WEBER

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM 1 IS INSPECTING MATERIALS EXCAVATED PER SOW/WP

QA Representative  Date 15 OCT 08
AS ABSENT FOR CH2M HILL

FOLLOW UP CHECKLIST

Date: 16 OCT 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

**IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
MATERIAL INSPECTION, MARSOC GP 41 A&B**

CLIF WHITE
GEORGE EDWARDS
D. J. MOORE
CHARLES BOBO
CHAD LAWRENCE
ROBERT SHAUGER
JOHN CAPANO
JACKIE JAMES
ORVILLE JAMES
DAWN WEBER

**TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests
taken)**

UXO TEAM 1 IS INSPECTING MATERIALS EXCAVATED PER SOW/WP

QA Representative  Date 16 OCT 08
AS AGENT for CH2M HILL

INITIAL PHASE CHECK LIST

Contract No.: Task Order 011 MARSOC

Date: 13 OCT 08

Title and No. of Technical Section: IAW Section 7.0 SSWP/8 MWP and ORR

EQUIPMENT TESTING: Per ORR and previous work and per verbal confirmation by Jessica Skeeane (13 OCT 08), USAE will not be required to go through GPO Prove Out.

Magnetometers will be checked daily with an Equipment Check Area to be established in close proximity to the work area. A record will be kept.

Description and Location of Work Inspected: Equipment Test

A. Key Personnel Present:

Name	Position	Company
WHITE, CLIF	UXOQCS	CH2M HILL
GEROGE EDWARDS	SUXOS	USAE
D.J. MOORE	UXOSO/UXOQCS	USAE
RICHARD McNEAL	GEO	USAE

B. Materials being used are in strict compliance with the contract plans and specifications: Yes X_ No ___

If not, explain: _____

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes N/A No ___

If not, explain: _____

D. Workmanship is acceptable: Yes N/A _____
No ___

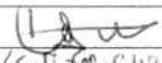
State where improvement is needed: _____

E. Workmanship is free of safety violations:
No _____

Yes N/A _____

If no, corrective action taken:

WHITE, CLIF


HS AGENT for CH2M HILL
UXOQA

FOLLOW UP CHECKLIST

Date: 13 OCT 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
EQUIPMENT CHECK, MARSOC GP 41 A&B

~~WHITE CLIF~~
CLIF WHITE
GEORGE EDWARDS
D. J. MOORE
CHARLES BOBO
CHAD LAWRENCE
ROBERT SHAUGER
JOHN CAPANO
JACKIE JAMES
ORVILLE JAMES
DAWN WEBER

~~GABBY PETE~~

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

TEAM MEMBERS CHECKED OUT EQUIPMENT FOR PROPER OPERATION.

QA Representative


AS AGENT FOR CH2M HILL

Date 13 OCT 08

FOLLOW UP CHECKLIST

Date: 14 OCT 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT

EQUIPMENT CHECK, MARSOC GP 41 A&B

~~WHITE CLIF~~

- CLIF WHITE
- GEORGE EDWARDS
- D. J. MOORE
- CHARLES BOBO
- CHAD LAWRENCE
- ROBERT SHAUGER
- JOHN CAPANO
- JACKIE JAMES
- ORVILLE JAMES
- DAWN WEBER

~~GABRY PETER~~

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

TEAM MEMBERS CHECKED OUT EQUIPMENT FOR PROPER OPERATION.
USAE SUXOS AND UXOSO/QC SET UP AN EQUIPMENT CHECK AREA (ECA)

QA Representative  Date 14 OCT 08
AS AGENT FOR CH2M HILL

FOLLOW UP CHECKLIST

Date: 15 OCT 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
EQUIPMENT CHECK, MARSOC GP 41 A&B

~~WHITE CLIF~~
CLIF WHITE
GEORGE EDWARDS
D. J. MOORE
CHARLES BOBO
CHAD LAWRENCE
ROBERT SHAUGER
JOHN CAPANO
JACKIE JAMES
ORVILLE JAMES
DAWN WEBER

~~GARY WHITE~~

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

TEAM MEMBERS CHECKED OUT EQUIPMENT FOR PROPER OPERATION.

QA Representative *[Signature]* Date 15 OCT 08
AS AGENT FOR CH2M HILL

FOLLOW UP CHECKLIST

Date: 16 OCT 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT

EQUIPMENT CHECK, MARSOC GP 41 A&B

~~WHITE CLIF~~

- CLIF WHITE
- GEORGE EDWARDS
- D. J. MOORE
- CHARLES BOBO
- CHAD LAWRENCE
- ROBERT SHAUGER
- JOHN CAPANO
- JACKIE JAMES
- ORVILLE JAMES
- DAWN WEBER

~~GARY ANDERSON, PETE~~

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

TEAM MEMBERS CHECKED OUT EQUIPMENT FOR PROPER OPERATION.

QA Representative  Date 16 OCT 08

AS AGENT for CH2M HILL

FOLLOW UP CHECKLIST

Date: 14 OCT 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
ANOMALY AMPLITUDE, MARSOC GP 41 A&B

CLIF WHITE
GEORGE EDWARDS
D. J. MOORE
CHARLES BOBO
CHAD LAWRENCE
ROBERT SHAUGER
JOHN CAPANO
JACKIE JAMES
ORVILLE JAMES
DAWN WEBER

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM IS CHECKING PROSECUTED ANOMALY LOCATIONS FOR ADDITIONAL ITEMS.
UXO-01. SEE MRSIMS FOR TOTALS PER CONTRACT

QA Representative  Date 14 OCT 08

AS AGENT OF CH2M HILL

FOLLOW UP CHECKLIST

Date: 15 OCT 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
ANOMALY AMPLITUDE, MARSOC GP 41 A&B

CLIF WHITE
GEORGE EDWARDS
D. J. MOORE
CHARLES BOBO
CHAD LAWRENCE
ROBERT SHAUGER
JOHN CAPANO
JACKIE JAMES
ORVILLE JAMES
DAWN WEBER

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM IS CHECKING PROSECUTED ANOMALY LOCATIONS FOR ADDITIONAL ITEMS.
UXO-01. SEE MRSIMS FOR TOTALS PER CONTRACT

QA Representative  Date 15 OCT 08

AS AGENT of CH2M HILL

FOLLOW UP CHECKLIST

Date: 16 OCT 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT
ANOMALY AMPLITUDE, MARSOC GP 41 A&B

CLIF WHITE
GEORGE EDWARDS
D. J. MOORE
CHARLES BOBO
CHAD LAWRENCE
ROBERT SHAUGER
JOHN CAPANO
JACKIE JAMES
ORVILLE JAMES
DAWN WEBER

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

UXO TEAM IS CHECKING PROSECUTED ANOMALY LOCATIONS FOR ADDITIONAL ITEMS.
UXO-01. SEE MRSIMS FOR TOTALS PER CONTRACT

QA Representative



Date 16 OCT 08

AS AGENT for CH2M HILL

INITIAL PHASE CHECK LIST

Contract No.: Task Order 011 MARSOC

Date: 13 OCT 08

Title and No. of Technical Section: LAW APPLICABLE DOCUMENTS
DISCUSSED EXPLOSIVE OPERATIONS AND ALSO DISPOSAL OF SCRAP MATERIALS

Description and Location of Work Inspected: N/A

A. Key Personnel Present:

Table with 3 columns: Name, Position, Company. Rows include WHITE, CLIF (UXOQCS, CH2M HILL), GEORGE EDWARDS (SUXOS, USAE), and D.J. MOORE (UXOSO/UXOQCS, USAE).

B. Materials being used are in strict compliance with the contract plans and specifications: Yes X No

If not, explain:

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes X No
Issue will be re-visited if demo ops are performed.

If not, explain:

D. Workmanship is acceptable: Yes N/A No

State where improvement is needed:

E. Workmanship is free of safety violations: Yes N/A No

If no, corrective action taken:

WHITE, CLIF



AS AGENT FOR CHAZM HILL
UXOQCA

INITIAL PHASE CHECK LIST

Contract No.: Task Order 011 MARSOC

Date: 13 OCT 08

Title and No. of Technical Section: IAW APPLICABLE DOCUMENTS
REVIEWED AND UXB GIVEN COPY OF SSWP/ESS

Description and Location of Work Inspected: CERTIFACATION OF RECOVERED MATERIALS

A. Key Personnel Present:

Name	Position	Company
WHITE, CLIF	UXOQCS	CH2M HILL
GEROGE EDWARDS	SUXOS	UEAS
D.J. MOORE	UXOSO/UXOQCS	USAE

B. Materials being used are in strict compliance with the contract plans and specifications: Yes No

If not, explain: _____

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes N/A No

If not, explain: _____

D. Workmanship is acceptable: Yes N/A No

State where improvement is needed: _____

E. Workmanship is free of safety violations: Yes N/A No

If no, corrective action taken:

WHITE, CLIF



AS AGENT FOR CHAM HILL
UXOQA

INITIAL PHASE CHECK LIST

Contract No.: Task Order 011 MARSOC

Date: 13 OCT 08 _____

Title and No. of Technical Section: NOTE GIVEN-DFOW PG 2 OF 3

VERIFY THAT THE ANOMALY RECOVERED DURING INTRUSIVE OPERATIONS IS APPROPRIATE TO THE AMPLITUDE OF THE ANOMALY DETECTED DURING DGM

Description and Location of Work Inspected: ANOMALY REAQUISITION

A. Key Personnel Present:

Name	Position	Company
WHITE, CLIF	UXOQCS	CH2M HILL
GEORGE EDWARDS	SUXOS	USAE
D. J. MOORE	UXOSO/UXOQCS	USAE
RICHARD McNEAL	GEO	USAE

B. Materials being used are in strict compliance with the contract plans and specifications: Yes No X

If not, explain: _____

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes N/A No _____

If not, explain: _____

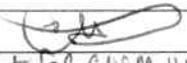
D. Workmanship is acceptable: Yes N/A No

State where improvement is needed: _____

E. Workmanship is free of safety violations: Yes N/A No _____

If no, corrective action taken:

WHITE, CLIF


AS AGENT FOR CH2M HILL
UXOQA

FOLLOW UP CHECKLIST

Date: 10 Oct 08

Contractor: CH2M HILL / USAE

Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT

TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B

ONLY REAQUISITION TEAM RUNNING

CLIF WHITE

GEORGE EDWARDS

D. J. MOORE

CHARLES BOBO

CHAD LAWRENCE

ROBERT SHAUGER

JOHN CAPANO

JACKIE JAMES

ORVILLE JAMES

DAWN WEBER

REPORT

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

USAE IS PERFORMING WORK IAW APPLICABLE DOCUMENTS AND DISCUSSING PROCESS
PROCEEDURE AS WE WORK THROUGH THE DAY.

31 qc checks - 1 failure,
it was redug and passed 2nd q.c.
DJ Moore usae / Debra ANDERSON Q.A - CH2M-

QA Representative

Debra Anderson

Date 10 OCT 08

FOLLOW UP CHECKLIST

Date: 21 Oct 08

Contractor: CH2M HILL / USAE

Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT

TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B

ONLY REAQUISITION TEAM RUNNING

CLIF WHITE

GEORGE EDWARDS

D. J. MOORE

CHARLES BOBO

CHAD LAWRENCE

ROBERT SHAUGER

JOHN CAPANO

JACKIE JAMES

ORVILLE JAMES

DAWN WEBER

ROBER

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

USAE IS PERFORMING WORK IAW APPLICABLE DOCUMENTS AND DISCUSSING PROCESS

PROCEEDURE AS WE WORK THROUGH THE DAY.

32 Q.C checks #2-failures #2-Retest Passed.
D.J Moore USAE qc / Debra ANDERSON-QA-CH2M-Hill

QA Representative

Date 21 OCT 08

Debra Anderson
CH2M-Hill

FOLLOW UP CHECKLIST

Date: 22 Oct 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT

TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B
ONLY REAQUISITION TEAM RUNNING

- CLIF WHITE
- GEORGE EDWARDS
- D. J. MOORE
- CHARLES BOBO
- CHAD LAWRENCE
- ROBERT SHAUGER
- JOHN CAPANO
- JACKIE JAMES
- ORVILLE JAMES
- DAWN WEBER

ROPER

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

USAE IS PERFORMING WORK IAW APPLICABLE DOCUMENTS AND DISCUSSING PROCESS
PROCEDURE AS WE WORK THROUGH THE DAY.

47 qc-checks - no failures
D.J Moore USAE / Debra Anderson - CH2M-Hill

QA Representative

Date 22 OCT 08

Debra Anderson
CH2M-Hill

FOLLOW UP CHECKLIST

Date: 23 Oct 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT

TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B
ONLY REAQUISITION TEAM RUNNING

CLIF WHITE
GEORGE EDWARDS
D. J. MOORE
CHARLES BOBO
CHAD LAWRENCE
ROBERT SHAUGER
JOHN CAPANO
JACKIE JAMES
ORVILLE JAMES
DAWN WEBER

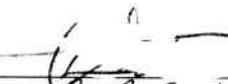
ROBER

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

USAE IS PERFORMING WORK IAW APPLICABLE DOCUMENTS AND DISCUSSING PROCESS
PROCEDURE AS WE WORK THROUGH THE DAY.

46 Q.C checks. D.J Moore USAE / Debra Anderson
CH2M-Hill.

QA Representative


Debra Anderson CH2M-Hill

Date 23 OCT 08

FOLLOW UP CHECKLIST

Date: 27 Oct 08
Contractor: CH2M HILL / USAE
Contract No: CTO-011 MARSOC

Y=YES; N=NO; SEE REMARKS BLANK=NOT APPLICABLE	
WORK COMPLIES WITH CONTRACT AS APPROVED IN INITIAL PHASE	Y

IDENTIFY DEFINABLE FEATURE OF WORK, LOCATION, AND LIST PERSONNEL PRESENT

TEAM SEPERATION DISTANCES (TSD), MARSOC GP 41 A&B
ONLY REAQUISITION TEAM RUNNING

- CLIF WHITE
- GEORGE EDWARDS
- D. J. MOORE
- CHARLES BOBO
- CHAD LAWRENCE
- ROBERT SHAUGER
- JOHN CAPANO
- JACKIE JAMES
- ORVILLE JAMES
- DAWN WEBER

~~ROBER~~

TESTING PERFORMED & WHO PERFORMED TEST (Include number of samples and/or tests taken)

USAE IS PERFORMING WORK IAW APPLICABLE DOCUMENTS AND DISCUSSING PROCESS
PROCEDURE AS WE WORK THROUGH THE DAY.

6-Q.C checks. No failure's. Total q.c checks
244. That is 35% of the grids checked.

QA Representative _____ Date 27 OCT 08

Debra Anderson CH2M-Hill QA

Appendix E
Photograph of Recovered MD



One M18 grenade, smoke, practice, with M201A1 fuze, expended and three MK1 grenades, practice, no fuze recovered at former Gun Position 41A and 41B

Appendix F
MC Laboratory Data

TABLE F-1
 Surface Soil Analytical Results
 Preliminary Assessment/Site Inspection, Former Gun Position 41A & 41B
 MCB Camp Lejeune, North Carolina
 April 2008

Station ID Sample ID Sample Date	NC SSL (May 2005)	RSLs Industrial Soil Adjusted	RSLs Residential Soil Adjusted	ASR2.212-GP41-DU01		
				ASR2.212-GP41-DU01-SS01 04/15/08	ASR2.212-GP41-DU01-SS02 04/16/08	ASR2.212-GP41-DU01-SS03 04/16/08
Chemical Name						
Explosives (UG/KG)						
No Detections						
Total Metals (MG/KG)						
Arsenic	5.24	1.6	0.39	0.44 U	0.42 U	0.41 U
Barium	848	19000	1500	6 J	6.4 J	5.1 J
Chromium	27.2	1400	280	2.9	2.8	3.3
Lead	270	800	400	4.2	4.4	3.7
Mercury	0.015	31	2.3	0.023 U	0.022 U	0.022 U
Selenium	12.2	510	39	0.62 J	0.91 J	0.57 UJ

Notes:

J - Analyte present, value may or may not be accurate or precise

MG/KG - Milligrams per kilogram

NA - Not analyzed

U - The material was analyzed for, but not detected

UJ - Analyte not detected, quantitation limit may be inaccurate

RSL - Regional Screening Level

NC SSL - North Carolina Soil Screening Level

Shading indicates exceedance of
 NCSSL criteria
 Underlined numbering indicates
 exceedance of Residential RSL criteria

TABLE F-1

Surface Soil Analytical Results

Preliminary Assessment/Site Inspection, Former Gun Position 41A & 41B

MCB Camp Lejeune, North Carolina

April 2008

Station ID Sample ID Sample Date	NC SSL (May 2005)	RSLs Industrial Soil Adjusted	RSLs Residential Soil Adjusted	ASR2.212-GP41-DU02			
				ASR2.212-GP41-DU02-SS01 04/16/08	ASR2.212-GP41-DU02-SS01D 04/16/08	ASR2.212-GP41-DU02-SS02 04/16/08	ASR2.212-GP41-DU02-SS03 04/16/08
Chemical Name							
Explosives (UG/KG)							
No Detections							
Total Metals (MG/KG)							
Arsenic	5.24	1.6	0.39	<u>0.61</u> J	<u>0.47</u> J	<u>0.66</u> J	<u>0.42</u> J
Barium	848	19000	1500	5.7 J	6.3 J	6.7 J	6.6 J
Chromium	27.2	1400	280	2.6	2.6	2.6	2.7
Lead	270	800	400	6.6	6.7	9	8.4
Mercury	0.015	31	2.3	0.02 U	0.018 U	0.019 U	0.022 J
Selenium	12.2	510	39	0.52 UJ	0.51 UJ	0.49 UJ	0.48 UJ

Notes:

J - Analyte present, value may or may not be accurate or precise

MG/KG - Milligrams per kilogram

NA - Not analyzed

U - The material was analyzed for, but not detected

UJ - Analyte not detected, quantitation limit may be inaccurate

RSL - Regional Screening Level

NC SSL - North Carolina Soil Screening Level

Shading indicates exceedance of
NCSSL criteria
Underlined numbering indicates
exceedance of Residential RSL criteria

TABLE F-1

Surface Soil Analytical Results

Preliminary Assessment/Site Inspection, Former Gun Position 41A & 41B

MCB Camp Lejeune, North Carolina

April 2008

Station ID Sample ID Sample Date	NC SSL (May 2005)	RSLs Industrial Soil Adjusted	RSLs Residential Soil Adjusted	ASR2.212-GP41-DU03			
				ASR2.212-GP41-DU03-SS01 04/16/08	ASR2.212-GP41-DU03-SS01D 04/16/08	ASR2.212-GP41-DU03-SS02 04/17/08	ASR2.212-GP41-DU03-SS03 04/17/08
Chemical Name							
Explosives (UG/KG)							
No Detections							
Total Metals (MG/KG)							
Arsenic	5.24	1.6	0.39	<u>0.75</u> J	<u>1.2</u>	<u>0.95</u> J	<u>1.4</u>
Barium	848	19000	1500	8.4 J	8.7 J	12.9 J	7.8 J
Chromium	27.2	1400	280	3.4	5.1	4.6	6
Lead	270	800	400	9.3	8.4	9.5	5.9
Mercury	0.015	31	2.3	0.019 J	0.02 U	0.026 J	0.021 J
Selenium	12.2	510	39	0.57 J	0.51 UJ	0.58 J	0.53 UJ

Notes:

J - Analyte present, value may or may not be accurate or precise

MG/KG - Milligrams per kilogram

NA - Not analyzed

U - The material was analyzed for, but not detected

UJ - Analyte not detected, quantitation limit may be inaccurate

RSL - Regional Screening Level

NC SSL - North Carolina Soil Screening Level

Shading indicates exceedance of
NCSSL criteria
Underlined numbering indicates
exceedance of Residential RSL criteria

TABLE F-1

Surface Soil Analytical Results

Preliminary Assessment/Site Inspection, Former Gun Position 41A & 41B

MCB Camp Lejeune, North Carolina

April 2008

Station ID Sample ID Sample Date	NC SSL (May 2005)	RSLs Industrial Soil Adjusted	RSLs Residential Soil Adjusted	ASR2.212-GP41-DU04		
				ASR2.212-GP41-DU04-SS01 04/17/08	ASR2.212-GP41-DU04-SS02 04/17/08	ASR2.212-GP41-DU04-SS03 04/17/08
Chemical Name						
Explosives (UG/KG)						
No Detections						
Total Metals (MG/KG)						
Arsenic	5.24	1.6	0.39	0.38 U	<u>0.42</u> J	<u>0.49</u> J
Barium	848	19000	1500	10.5 J	11.9 J	9 J
Chromium	27.2	1400	280	4	4.8	4.3
Lead	270	800	400	12.9	13.7	11.3
Mercury	0.015	31	2.3	0.024 J	0.025 J	0.019 U
Selenium	12.2	510	39	0.83 J	0.55 UJ	0.6 J

Notes:

J - Analyte present, value may or may not be accurate or precise

MG/KG - Milligrams per kilogram

NA - Not analyzed

U - The material was analyzed for, but not detected

UJ - Analyte not detected, quantitation limit may be inaccurate

RSL - Regional Screening Level

NC SSL - North Carolina Soil Screening Level

Shading indicates exceedance of
NCSSL criteria
Underlined numbering indicates
exceedance of Residential RSL criteria

TABLE F-2

Subsurface Soil Analytical Results

Preliminary Assessment/Site Inspection, Former Gun Position 41A & 41B

MCB Camp Lejeune, North Carolina

April 2008

Station ID Sample ID Sample Date	NC SSL (May 2005)	RSLs Residential Soil Adjusted	RSLs Industrial Soil Adjusted	ASR2.212-GP41-IS01 ASR2.212-GP41-IS01-1-3 04/22/08	ASR2.212-GP41-IS02 ASR2.212-GP41-IS02-1-3 04/21/08	ASR2.212-GP41-IS03 ASR2.212-GP41-IS03-1-3 04/22/08		ASR2.212-GP41-IS03D-1-3 04/22/08	ASR2.212-GP41-IS04 ASR2.212-GP41-IS04-1-3 04/21/08
Chemical Name									
Explosives (UG/KG)									
No Detections									
Total Metals (MG/KG)									
Arsenic	5.24	0.39	1.6	<u>0.68</u> J	0.35 U	<u>0.85</u> J		0.37 J	0.35 U
Barium	848	1500	19000	16.5 J	5 J	5.3 J		3.3 J	4.5 J
Chromium	27.2	280	1400	<u>24</u>	6.2	2.4		3.8	4.5
Lead	270	400	800	11.8	4.1	3.1		3.6	3.3
Mercury	0.015	2.3	31	0.021 U	0.018 U	0.023 J		0.019 U	0.017 U

Notes:

J - Analyte present, value may or may not be accurate or precise

Shading indicates exceedance of NCSSL criteria

MG/KG - Milligrams per kilogram

Underlined numbering indicates exceedance of Residential Screening.

NA - Not analyzed

U - The material was analyzed for, but not detected

UJ - Analyte not detected, quantitation limit may be inaccurate

RSL - Regional Screening Level

NC SSL - North Carolina Soil Screening Level

TABLE F-3

Groundwater Analytical Results
 Preliminary Assessment/Site Inspection, Former Gun Position 41A & 41B
 MCB Camp Lejeune, North Carolina
 April 2008

Station ID Sample ID	NC2L GW (December 2005)	RSLs Tapwater Adjusted	ASR2.212-GP41-TW01		ASR2.212-GP41-TW02	ASR2.212-GP41-TW03	ASR2.212-GP41-TW04
			ASR2.212-GP41-TW01-2-12	ASR2.212-GP41-TW01D-2-12	ASR2.212-GP41-TW02-2-12	ASR2.212-GP41-TW03-2-12	ASR2.212-GP41-TW04-2-12
Sample Date			04/22/08	04/22/08	04/21/08	04/22/08	04/22/08
Chemical Name							
Explosives (UG/L)							
No Detections							
Total Metals (UG/L)							
Arsenic	50	0.045	<u>18.8</u>	<u>9.6</u>	<u>3</u>	<u>7.8</u>	<u>4.6</u> J
Barium	2,000	730.0	79.4	81.1	94.4	118	87.4
Cadmium	1.75	1.8	0.17 J	0.1 J	0.089 J	0.22 J	0.11 U
Chromium	50	11	6.8 J	2 J	<u>21.3</u> J	<u>62.3</u> J	<u>12.1</u> J
Lead	15	--	8.7 J	5.3 J	<u>16.3</u> J	<u>56.9</u> J	<u>14.3</u> J
Mercury	1.05	1.1	0.1 U	0.1 U	0.1 U	0.28	0.1 U
Selenium	50	18	0.94 J	0.63 U	0.91 J	5.4 J	3.2 U
Dissolved Metals (UG/L)							
Arsenic	50	0.045	<u>14.7</u>	<u>10.4</u>	<u>1.7</u>	<u>0.8</u> J	<u>3</u>
Barium	2,000	730.0	67.8	66.2	84.7	76.9	82.3
Chromium	50	11	2	2 U	6.1	3.4	2 U
Lead	15	--	3.2 J	2.5 J	4.4 J	2.3 J	<u>26.6</u> J
Selenium	50	18	0.64 J	0.63 U	0.63 U	0.65 J	0.85 J
Silver	17.5	18	0.054 U	0.054 U	0.064 J	0.054 U	0.054 U

Notes:

NA - Not analyzed

Shading indicates exceedance of NC2LGW criteria

U - The material was analyzed for, but not detected

Bold numbering indicates exceedance of Camp Lejeune Background criteria

UG/L - Micrograms per liter

Underlined numbering indicates exceedance of RSLs

RSL - Regional Screening Level