FORT GEORGE G. MEADE
LEGACY BASE REALIGNMENT AND CLOSURE PROGRAM

Long-Term Monitoring Report

2011 Little Patuxent River Sweep

Prepared For:

U.S. Army Corps of Engineers, Baltimore District
10 South Howard Street
Baltimore, MD 21201

Prepared By:
USA Environmental, Inc.
720 Brooker Creek Blvd., Suite 204
Oldsmar, FL 34677

Prepared For:
URS Corporation
200 Orchard Ridge Drive
Gaithersburg, Maryland 20878

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Draft

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LIST OF ACRONYMS AND ABBREVIATIONS

AOC	Area of Concern
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
DERP-BRAC	Defense Environmental Restoration Program-Base Realignment and Closure Act
DID	Data Item Description
DOI	Department of Interior
EOD	Explosive Ordnance Disposal
ESS	Explosives Safety Submission
EZ	Exclusion Zone
FFP	Firm Fixed Price
FGGM	Fort George G. Meade
HAZWOPER	Hazardous Waste Operations
LTM	Long Term Monitoring
MEC	Munitions and Explosives of Concern
MD	Munitions Debris
MPPEH	Material Potentially Presenting an Explosive Hazard
MSD	Minimum Separation Distance
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
OE	Ordnance and Explosives
PRR	Patuxent Research Refuge
QA	Quality Assurance
QC	Quality Control
SOW	Statement of Work
SSFR	Site Specific Final Report
SUXOS	Senior UXO Supervisor
TES	Timberline Environmental Services
URS	URS Corporation
USACE	U.S. Army Corps of Engineers
USA	USA Environmental, Inc.
USAESCH	U.S. Army Engineering and Support Center, Huntsville
USFWS	U.S. Fish and Wildlife Service
UXO	Unexploded Ordnance
UXOQCS	UXO Quality Control Specialist
UXOSO	UXO Safety Officer
UXOSO/QCS	Dual Hatted UXO Safety Officer/Quality Control Specialist
UXOTII	UXO Technician II
UXOTIII	UXO Technician III
WP	Work Plan

CHAPTER 1: INTRODUCTION

1.0 INTRODUCTION

This addendum to the Site Specific Final Report (SSFR) (USA Environmental, 7 January 2002) summarizes the project regulatory authority and work performed by URS Corporation (URS) and by URS' subcontractor, USA Environmental, Inc. (USA) under Contract No. W9128F-04-D-0001 from the U.S. Army Corps of Engineers (USACE), Baltimore District. The goal of this effort was to conduct Long-Term Monitoring (LTM) at the Little Patuxent River, Fort George G. Meade, Maryland, in accordance with the revised Statement of Work (SOW) enclosed in Appendix A of this SSFR. This addendum report details the methods and procedures employed during the Little Patuxent River Munitions and Explosives of Concern (MEC) removal action in support of the 2011 LTM.

1.1 BACKGROUND

The Little Patuxent River runs through Anne Arundel County, Maryland, and the U.S. Fish and Wildlife Service's (USFWS's) Patuxent Research Refuge (PRR). The PRR consists of approximately 13,000 acres. Within the PRR, the PRR-North Tract, of approximately 8,100 acres, encompasses the former range training areas of Fort George G. Meade (FGGM). This portion of FGGM was turned over to the Department of Interior (DOI) in 1991 by Congressional mandate. Prior to this time, the PRR-North Tract was used as a range training area for FGGM.

MEC is a safety hazard and may constitute an imminent and substantial endangerment to the local populace and site personnel. MEC and Material Potentially Presenting an Explosive Hazard (MPPEH) are known to exist in the Little Patuxent River in the stretch from 400 ft south of Maryland State Route 198 to the Old Forge Bridge. Refer to the Overview Map, Appendix C, Figure C-1.

1.2 AUTHORITY

This response action was performed under the authority of the Defense Environmental Restoration Program - Base Realignment and Closure Act (DERP-BRAC), and in a manner consistent with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 104, and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). USA performed the work in accordance with applicable laws and regulations.

1.3 TECHNICAL SCOPE OF WORK

USA performed this 2011 LTM MEC removal in accordance with the approved Explosives Safety Submission (ESS) (USACE, St. Louis District, 8 June 1995) for the Tipton Army Airfield and an annual MEC removal of the Little Patuxent River riverbed and riverbank SOW.

The following is a list of the tasks required by the basic project SOW (see Appendix A):

- LTM of the Little Patuxent River and riverbanks (approximately 8 acres) from the Old Forge Bridge to a point 400 ft south of Maryland Highway 198.
- Inspection, certification, and disposal of munitions debris (MD) generated during removal operations.

1.3.1 Site Visit and Records Search

This task is not required for the LTM of the Little Patuxent River.

1.3.2 Prepare Work Plan

In accordance with the SOW, no additional Work Plans (WPs) were required. USA performed all site operations in accordance with the approved Final WP (USA Environmental, February 2001) and the USACE Baltimore District-approved WP Addendum No. 1, Revision No. 6 (Addendum: USA Environmental, 31 August 2007).

1.3.3 Perform Location Surveys and Mapping

This task is not required for the LTM of the Little Patuxent River.

1.3.4 Vegetation Clearance

This task is not required for the LTM of the Little Patuxent River.

1.3.5 Perform MEC Removal Action

Under this task, the MEC Team performed an instrument-assisted visual survey of the Little Patuxent River riverbed and riverbank (approximately 8 acres) starting from the Old Forge Bridge to a point 400 ft south of Maryland Highway 198.

1.3.6 Final Disposition of Munitions Debris/Range Residue

The MEC Team packaged 147-lb of certified MD in sealed containers and shipped it via Federal Express to Timberline Environmental Services (TES) for processing and final disposal. TES processed the MD and disposed of the items through normal scrap recycler channels (see Appendix B).

1.3.7 Perform Quality Control (QC)

USA performed QC inspections during this MEC removal action in real time. The UXO Quality Control Specialist (UXOQCS) and USACE OE Safety Specialist closely monitored the sweep procedures and coverage.

1.3.8 Site Specific Final Report

This addendum to the SSFR was prepared in accordance with the specifications outlined in the SOW and Data Item Description (DID) MR-030.

1.3.9 Task 9, Meetings and Community Involvement

The Senior UXO Supervisor (SUXOS) participated in an on-site coordination meeting with the USFWS PRR representative on Tuesday, 20 September 2011. The SUXOS briefed Fort Meade and PRR personnel on the scheduled LTM operations. There were no requests or requirements for USA to participate in additional community involvement meetings.

CHAPTER 2: TECHNICAL APPROACH

2.0 DISCUSSION

This chapter describes the procedures and methodologies used to execute the work associated with Task Order No. DA15-01 of Contract No. W9128F-04-D-0001. The work consisted of three separate phases: Phase 1 – Mobilization, Phase 2 – Removal Action, and Phase 3 – Demobilization. Additional details are provided in the following subsections.

2.1 GENERAL SITE PRACTICES

All site operations were performed under the supervision and direction of qualified UXO personnel. USA prohibits non-UXO personnel from performing operations unless they are accompanied and supervised by a UXO Technician. Throughout operations, USA strictly adhered to the following general practices.

- Conduct operations only during daylight hours.
- Only qualified UXO personnel handle suspect MEC, MPPEH, and MD items, and only when handling is determined to be necessary.
- All site personnel attend a daily general safety briefing and a tailgate safety briefing prior to beginning work on site.

2.2 PHASE 1, MOBILIZATION

USA mobilized all personnel and equipment to arrive at the PRR on 20 September 2011. Because of the planned short duration of the project, no field office was established and all site administration activities were performed at the hotel. Site operations utilized leased vehicles for storage and transportation of team operating equipment (e.g., magnetometers, ropes, waders, etc.) and safety gear (e.g., first aid kits and fire extinguishers). The USA MEC Team consisted of a SUXOS, a UXO Safety Officer/UXO Quality Control Specialist (UXOSO/UXOQCS), a UXO Technician III (UXOTIII), and four UXO Technicians II (UXOTIIs).

Prior to conducting site activities, USA performed site-specific training of all personnel assigned to the project. The purpose of this training was to ensure that all personnel fully understood the procedures and methods necessary to safely execute their assigned duties and responsibilities. This training focused on general and site-specific safety and environmental practices/procedures; additional training also included the following.

- Prior to deployment, the SUXOS received operational briefings by the Project Manager on his duties and responsibilities, and reviewed the WP and Safety plans.
- At the site, prior to the start of operations, USA teams received ordnance recognition and UXO safety precautions training by the SUXOS and UXOSO.
- All field personnel received training on the equipment they were tasked to operate.
- Prior to mobilization, all USA UXO personnel received Hazardous Waste Operations (HAZWOPER) 40-hour (or 8-hour refresher) training, as required.

All personnel on site had current pre-placement or annual physical examinations. The examination complied with the requirements of 29 CFR 1910.120 and all personnel were certified as fit to work by an Occupational Physician certified in Occupational Medicine by the American Board of Preventive Medicine, or who, by necessary training and experience, is board eligible. All USA personnel who were on-site are in the USA medical surveillance program.

2.3 PHASE 2, REMOVAL ACTION

On 20 September 2011, the USA Team arrived on site at the PRR to attend the site kick-off meeting and to begin site preparation and equipment setup. Specific actions performed during this phase included:

- Attended site Kick-Off meeting at the PRR Visitor Center.
- Coordinated with local agencies such as the USFWS and Tipton Airfield and established communications liaison.
- Performed equipment setup and checkout.
- Performed site-specific safety and tailgate safety briefing.

2.3.1 Visual Instrument-Assisted River Sweep

To perform the search, five UXO Technicians were deployed side by side, spaced at 5-ft intervals. The search began at the riverbanks and moved toward the center of the river down to a point where the river was no more than 3 ft deep. As shown in Picture 2-1, search personnel performed the visual instrument-assisted sweep of the river.

Picture 2-1: Visual Instrument-Assisted River Sweep

When visually encountering a suspect item (the item of interest was the 2.36-inch rocket), the UXO Technician checked it with a magnetometer to determine if it would produce a metallic signature.

Personnel also visually checked the riverbanks for MEC items that were either on the surface or in a partially exposed condition.

2.3.2 Suspected MEC/MPPEH Removal Procedures

Following the completion of the Safety Meeting at the PRR Visitor Center, and with approval from the USACE OE Safety Specialist, the MEC Team commenced search operations. The MEC Team recovered 53 items, consisting of (48) 2.36-inch rockets and (5) 2.36" rocket motors. All items were found near the bend of the river near the ball field (see Figures C-1 and C-2 in Appendix C). All 48 rockets were suspected MEC/MPPEH items and were remotely removed from the riverbed. Picture 2-2 shows an example of an MPPEH item after remote removal from the riverbed. Of the 48 rockets, 27 were visually identified as MD upon further evaluation. The remaining 21 were x-rayed and were all confirmed to be expended practice rounds. Picture 2-3 shows a typical 2.36-inch rocket being x-rayed, while Picture 2-4 and Picture 2-5 show x-ray images of 2.36-inch rockets confirmed to be expended practice rounds. No MEC items were recovered during the search. All MD items were certified by the USA SUXOS and verified by the USACE OE Safety Specialist on the DD Form 1348-1A (copies provided in Appendix B). Certified MD was properly packaged and shipped to TES for final disposal.

Similar to the findings from previous LTM efforts, the items recovered during the 2011 LTM were in the vicinity of the bend of the river at the southern portion of Area 1 near the ball field, in the proximity of the bulk of previous discoveries. No rockets were encountered from the Old Forge Bridge northward to the bend in the river. Figure C-1 and C-2 depict areas where the items were found (refer to Appendix C).

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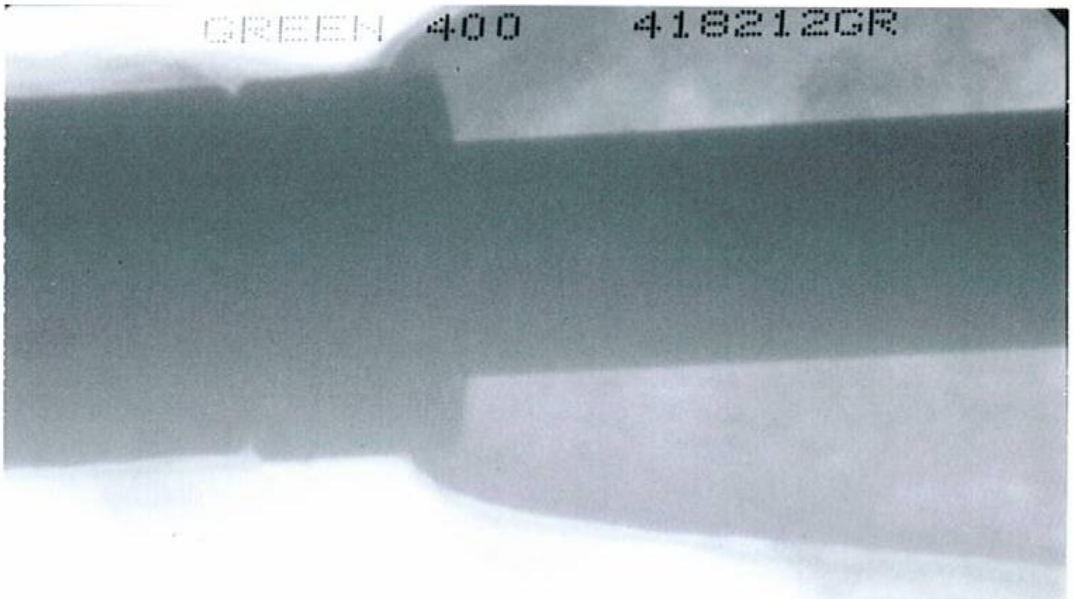
Picture 2-2: Remote Removal of MEC/MPPEH (Example)

Picture 2-3: X-Ray Operation of MEC/MPPEH (Example)

Picture 2-4: X-Rayed Image of 2.36-inch Rocket TP – Wax Filled



Picture 2-5: X-Rayed Image of 2.36-inch Rocket TP w/ Ballistic Counter Weight

2.3.3 Quality Control/Quality Assurance

Throughout operations, USA performed QC inspections. The inspections consisted of daily observations of operational activities and formal inspections of completed work. Daily inspections included checks of maintenance, calibration procedures, and compliance with the WP. During the river search, the UXOQCS and USACE OE Safety Specialist performed checks and inspections in real time. The USACE OE Safety Specialist performed Quality Assurance (QA) inspections of all operations (see Appendix D, QA/QC Documentation).

2.3.4 MEC/MPPEH Disposal

MEC/MPPEH disposal was not required.

2.3.5 Removal and Disposal of Munitions/Range Residue

All MD generated in the conduct of this task order was inspected, certified, and sealed in five 5-gallon containers. These containers were shipped via Federal Express to TES for processing and final disposal. MD certification forms 1348-1A, and the Certificate of Destruction, are provided in Appendix B of this SSFR. Per the Certificate of Destruction, 147 lb of MD were demilitarized.

2.3.6 Site Records and Documentation

Throughout all site operations, the SUXOS and the USACE OE Safety Specialist maintained daily logs including man-hours; equipment used each day, operating issues, and any instructions provided by the Government. In addition, the UXOSO performed daily safety briefings that included briefings for site visitors. All field documentation is provided in Appendix E of this SSFR.

2.4 PHASE 3, DEMOBILIZATION

With approval from the URS Project Manager, USA demobilized from the site on Thursday, 22 September 2011. All personnel, equipment, and material were removed from the site. All leased and rented equipment was returned.

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CHAPTER 3: MANPOWER AND COST DATA

3.0 FINANCIAL BREAKDOWN

This chapter provides cost data for the performance of all operations at the project site.

3.1 COSTS BY TASK NUMBER

Table 3-1 shows the firm fixed price (FFP) for this 2011 LTM at the Little Patuxent River riverbed and riverbanks.

Table 3-1: Project Costs – LTM 2011

Task/Activity	Unit	Price
2011 Long Term Monitoring of Little Patuxent River	FFP	$37,079.00

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CHAPTER 4: SUMMARY

4.0 SUMMARY

Historically, the majority of the MD items removed from the Little Patuxent River have been recovered at the bend of the river. Newly surfaced items appear due to erosion of the river bottom and banks occurring during high energy or high water conditions. During this year's (2011) LTM effort, 53 MD items associated with 2.36-inch rockets were recovered from the river.

The MEC team recovered (48) 2.36-inch practice rockets. All 48 were initially suspected MEC/MPPEH and were remotely removed from the riverbed. Of the 48 practice rockets, 27 were visually confirmed as MD upon further evaluation. The remaining 21 practice rockets were x-rayed and confirmed to be expended practice rounds. No MEC items were recovered during the search. All MD items were certified by the USA SUXOS and verified by the USACE OE Safety Specialist on the DD Form 1348-1A (copies provided in Appendix B). Certified MD totaling 147-lb was properly packaged and shipped to TES for final disposal.

During past LTM MEC removal actions of the Little Patuxent River, USA recovered 639 expended practice rockets. With 48 practice rockets found during this 2011 LTM effort, this brings the total number of rockets recovered to 687. Total MEC items found over the same period include two M10A1 2.36-inch White Phosphorus-filled rockets recovered during the 2008 LTM effort, and two live practice rocket motors found during the 2005 LTM effort, bringing the total MEC items to four for all LTM efforts.

Similar to the findings of the 2010 and earlier LTM efforts, this year's effort resulted in recovery of MD in the vicinity of the bend of the river at the southern portion of Area 1 near the ball field, in the proximity of the bulk of previous discoveries. Figure C-1 and Figure C-2 depict areas where these MD items were found. No practice rockets were encountered from the Old Forge Bridge northward to the bend in the river.

4.1 CONCLUSIONS AND RECOMMENDATIONS

USA bases the following conclusions and recommendations on data collected during all LTM efforts of the Little Patuxent River.

4.1.1 Conclusions

1. Because excavations in the riverbed are prohibited by USFWS policy, there is no way to estimate the quantity of items under the surface of the riverbed until natural erosion uncovers them. Thus, it is impossible to determine the duration of this LTM effort.
2. There is evidence to indicate that both MEC and MD exist within the riverbed of the Little Patuxent River. To date, the majority of the rockets recovered were in the River Bend A and River Bend B of the river near Area 1 and the ball field. No rockets have been found between the Old Forge Bridge and the river bends since the first MEC removal action. There could be additional rockets; however, they would most likely be under the surface of the riverbed. Recovery of items buried in the riverbed would require using magnetometers and intrusive investigations.
3. The majority of recovered rockets have been expended practice rockets. However, the 2005 LTM effort encountered two rockets that had live practice rocket motors, which classified them as MEC rather than MD. In addition, the 2008 LTM effort recovered two 2.36-inch M10A1 White Phosphorus rockets, which were also classified as MEC. Based on the results of the 2005 and 2008 LTM efforts, the potential for MEC hazards exists. The potential of a local fisherman encountering similar items wading in the river also exists.

4. To ensure that the rockets recovered do not contain high explosives or propellant prior to shipment off-site for final demilitarization and disposal, they must be inspected by UXO Technicians. Unless the rockets have deteriorated to the point where observation of the internal cavities is possible, they must be explosively vented. With the use of the portable X-ray, further assessment of suspected MEC/MPPEH items was made possible, which resulted in no on-site explosive venting during this 2011 LTM.

4.1.2 Recommendations

Based on the results of all previous LTM efforts and the 2008 LTM finding of two 2.36-inch M10A1 White Phosphorus rockets, USA makes the following recommendations.

- A MEC removal from the riverbed for the area between River Bend A and River Bend B or area of concern (AOC) down to the depth of detection using the Schonstedt magnetometer. Figure C-3 depicts this AOC.
- Recommend to USFWS to place the AOC off limits to fishermen wading in the river. Figure C-3 depicts this AOC.
- Recommend to USFWS to update the existing public awareness program to inform the local population of the potential MEC hazards in the river, especially within the AOC.
- To optimize completion of the river walk during more favorable conditions, the contractor performing the walk should verify, with the USFWS office, the river depth and flow conditions prior to site mobilization.

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APPENDIX A

A.0 STATEMENT OF WORK

This appendix contains a copy of the project Statement of Work (SOW) for the LTM 2011 effort.

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Scope of Work (SOW)
2011 Little Patuxent River Clearance

The SOW includes:

- Long Term Monitoring of the Little Patuxent River and riverbanks (approximately 8 acres) from the Old Forge Bridge to a point 400 feet south of Maryland Highway 198;
- Inspection, certification, and disposal of OE-related scrap (ORS) generated during clearance operations.

LOCATION SURVEYS AND MAPPING

If marking stakes from previous sweeps are still present, any OE recovered from the river and riverbank clearance should be referenced to the stakes. If the stakes are missing, bidder should capture location data of OE recovered from the river using a hand-held GPS. As the areas have previously been cleared, bidder should anticipate that the number of OE items that should be recovered during these operations should be relatively low. Due to this low density, bidder should plan to capture and record the location of the OE items using handheld GPS.

LONG TERM MONITORING

Bidder should field the following:

- One Senior UXO Supervisor,
- One UXO Safety Officer/UXO Quality Control Specialist,
- One UXO Technician III, and
- Three UXO Technicians II

LITTLE PATUXENT RIVER CLEARANCE

The surface UXO Clearance of the Little Patuxent River and Riverbank should be performed in accordance with the current approved work plan procedures (see Chapter 2, paragraph 2.11) and Addendum 1 dated July 31, 2001. OE and OE related materials encountered should be recovered and segregated from general debris/refuse for packaging and disposal. UXO and OE items containing explosives are destroyed in place by detonation, on a daily basis, and residue is recovered and treated as recovered OE and OE related materials. Following completion of demolition operations, all demolition holes are backfilled and reseeded if necessary.

X_RAY EVALUATION

X-ray evaluation of recovered potential MEC will be performed.

If the X-ray evaluation confirms that the potential MEC is, in fact, inert munitions debris, then the associated costs for Overnight Guarding of MEC and On-site Demolition will not be incurred and should not be billed.

Accordingly, the USA Environmental cost proposal should separately show, on a fixed unit price (FUP) basis: costs for (a) Overnight Guarding of MEC and (b) On-site Demolition. The FUP portion should estimate the number of units and this estimate cannot be exceeded.

All other costs should be on a firm fixed price (FFP) basis.

DISPOSAL OPERATIONS

UXO disposal and venting of OE related items should be in accordance with Chapter 2, paragraph 2.12 of the work plan.

EXPLOSIVES

Explosives use, storage and transportation should be in accordance with Chapters 3 & 4 of the work plan.

REMOVAL AND DISPOSAL OF SCRAP METAL

Removal and disposal of OE-related and other scrap should be in accordance with Chapter 2, paragraph 2.13 of the Work Plan. Based on past experience at the site neither DRMO or local scrap dealers should accept OE-related scrap and bidder should ship the inspected/certified material in locked drums to Timberline Environmental Services or equivalent for processing and disposal.

REPORTS AND DOCUMENTATION

WEEKLY REPORTS

Bidder should submit a Weekly Status Report to the USAESCH Project Manager in accordance with the approved work plan.

ADDENDUM TO FINAL REMOVAL REPORT (AFTER ACTION REPORT)

The After Action Report (AAR) will serve as the Addendum Report to the Final Removal Report. The following report versions are required (for each assume 6 hard copies and CDs):

- Internal Draft Report
- Draft Final Report
- Final Report

Throughout the execution of this task order, bidder should collect data that should be incorporated into the AAR, and should prepare Weekly Reports as operations are completed at each work area. Bidder should submit a Draft Removal Report within forty-five (45) calendar days after fieldwork is completed. A final Removal Report shall be submitted within twenty (20) calendar days after receipt of comments from the Contracting Officer. The Draft Removal Report should contain, as a minimum:

- Locations of UXO encountered;
- Detailed accounting of all disposed UXO and OE related materials;
- Daily journals of all activities associated with the job site;
- A recapitulation of exposure data. This should include total number of man-hours worked on-site by Task and total motor vehicle mileage;
- Salvage material turn-in documentation;
- Quality Control documentation;
- Color photographs depicting major action items and UXO/OE discoveries;
- Summary of costs incurred to implement the Little Patuxent River clearance and reporting;
- Major problems or issues encountered with supporting documentation if available.

DEMOBILIZATION

During this phase, bidder should remove its operational capability from the area and reallocate its personnel and equipment to other projects.

Following the completion of operations, bidder's Project Manager should take action to close all accounts with local vendors and suppliers.

SUMMARY

Bidder should perform long term clearance monitoring as outlined above. All other procedures at the site, other than those detailed above, should comply with the provisions of the approved Final Work Plan and Addendums.

APPENDIX B

B.0 MUNITIONS DEBRIS AND EXPLOSIVES DOCUMENTATION

This appendix contains documentation of explosives used and Munitions Debris certified, shipped and disposed for the LTM 2011 effort.

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Certificate of Destruction

Sealed Container Generating Contractor **USAE**

Generating Location **Patuxent Research Refuge , Laurel, MD**

Gross Weight **147 lbs**

[I certify that the items/assets/material received were demilitarized in accordance with guidelines contained in DoD 4160.21-M-1 and having been smelted are only identifiable by their basic content.]

COD# **092811** *Date* **09-28-11**

Certifying Official **Terry Northcutt** *Title* **President**

Signature

TES Inc. 29925 Hwy 108, Cold Springs, CA 95335 209-965-3118 caoffice@timberlineenvsv.com

On September 23, 2011, the contents of sealed containers:
350580, 350581, 350582, 350583, 350584, 350585, 350586, 350587 & 350588

were received from USA Environmental, Inc., Patuxent Research Refuge project, located in Laurel, MD. Timberline Environmental Services, Inc. (TES) has reviewed the provided supporting documentation and chain of custody, signed for the sealed containers and agree that no explosive hazards were received.

The contents of the sealed container are to be processed as per DoD guidelines 4160-21-M-1, and will not be sold, traded or otherwise given to another party until the contents have been smelted and are only identifiable by their basic content.

Terry Northcutt
TES Inc.

DD FORM 1348-1A, JUL 91 (EG) ISSUE RELEASE/RECEIPT DOCUMENT

DOCUMENT	IDENT	RI FROM	M&S	UNIT	ISS	QUANTITY	SER	SUPPLEMENTARY ADDRESS	SIG	FUND	DISTRIBUTION	PROJECT	PRI	REQD	DELDATE	ADV	RI	O/P	COND	MGT	UNIT PRICE DOLLARS	CTS	DOLLARS	CTS

1. TOTAL PRICE | 2. SHIP FROM | 3. SHIP TO | 4. MARK FOR

PREVIOUS EDITION MAY BE USED

5. DOC DATE	6. NMFC	7. FRT RATE	8. TYPE CARGO	9. PS

10. QTY. REC'D	11.UP	12. UNIT WEIGHT	13. UNIT CUBE	14. UFC	15. SL

16. FREIGHT CLASSIFICATION NOMENCLATURE

17. ITEM NOMENCLATURE

18. TY CONT	19. NO CONT	20. TOTAL WEIGHT	21. TOTAL CUBE

22. RECEIVED BY | 23. DATE RECEIVED 9/23/11

24. DOCUMENT NUMBER & SUFFIX (30-44)

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

26. RIC (4-6) UI (23-24) QTY (25-29) CON CODE (71) DIST (55-56) UP (74-80)

27. ADDITIONAL DATA

Basic Material Content: Munitions Debris, NO energetic material, steel.

Estimate Weight (lbs): 40 Pounds

Container ID No. ONE Seal ID No. 350580/350581 350582

Site Address Patuxent Research Refuge, Laurel, Md

Site Telephone No. 813.343.6378

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

Certified by:

Tony Tennyson/Brian Thompson Date 9/21/2011
Senior UXO Supervisor/Team Leader

Process verified by:

CLINT J. HENKEK Date 21 SEP 2011
USACE OE Safety Specialist

USA Environmental, Inc., 720 Brooker Creek Boulevard, Suite 204,Oldsmar, Florida 34677, Telephone 813.343.6336, Fax: 813.343.6337

Adobe Designer 7.0

Ship To: Timberline Environmental Services
29925 Hwy 108
Cold Springs/Long Barn, CA
95335

DD FORM 1348-1A, JUL 91 (EG) ISSUE RELEASE/RECEIPT DOCUMENT

DOC	IDENT	RI FROM	M&S	UNIT	ISS	QUANTITY	SUPPLEMENTARY ADDRESS	SIG	FUND	DISTRIBUTION	PROJECT	PRI	REQD	DELDATE	ADV	RI	O/P	COND	MGT	UNIT PRICE DOLLARS	UNIT PRICE CTS	DOLLARS	CTS

1. TOTAL PRICE | 2. SHIP FROM | 3. SHIP TO | 4. MARK FOR

5. DOC DATE | 6. NMFC | 7. FRT RATE | 8. TYPE CARGO | 9. PS

10. QTY. REC'D | 11. UP | 12. UNIT WEIGHT | 13. UNIT CUBE | 14. UFC | 15. SL

16. FREIGHT CLASSIFICATION NOMENCLATURE

17. ITEM NOMENCLATURE

18. TY CONT | 19. NO CONT | 20. TOTAL WEIGHT | 21. TOTAL CUBE

22. RECEIVED BY | 23. DATE RECEIVED 9/23/11

24. DOCUMENT NUMBER & SUFFIX (30-44)

Basic Material Content: Munitions Debris, NO energetic material, steel.

Estimate Weight (lbs): 40 Pounds

Container ID No. TWO Seal ID No. 350583/350584 350585

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

Site Address Patuxent Research Refuge, Laurel, Md

Site Telephone No. 813.343.6378

26. RIC (4-6) UI (23-24) QTY (25-29) CON CODE (71) DIST (55-56) UP (74-80)

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

27. ADDITIONAL DATA

Certified by:

Tony Tennyson/Brian Thompson Date 9/21/2011
Senior UXO Supervisor/Team Leader

Process verified by:

CLINT J. HENKER Date 21 SEP 2011
USACE OE Safety Specialist

USA Environmental, Inc., 720 Brooker Creek Boulevard, Suite 204,Oldsmar, Florida 34677, Telephone 813.343.6336, Fax: 813.343.6337

PREVIOUS EDITION MAY BE USED

Adobe Designer 7.0

Ship To: Timberline Environmental Services
29925 Hwy 108
Cold Springs / Long Barn, CA
95335

DD FORM 1348-1A, JUL 91 (EG) ISSUE RELEASE/RECEIPT DOCUMENT

DOCIDENT	RI FROM	M&S	UNIT	ISS	QUANTITY	SER	SUPPLEMENTARY ADDRESS	SIG	FUND	DISTRIBUTION	PROJECT	PRI	REQD	DELDATE	ADV	RI	O/P	COND	MGT	UNIT PRICE DOLLARS	UNIT PRICE CTS	DOLLARS	CTS
																				0	00	0	00

1. TOTAL PRICE

2. SHIP FROM

3. SHIP TO

4. MARK FOR

5. DOC DATE | 6. NMFC | 7. FRT RATE | 8. TYPE CARGO | 9. PS

10. QTY. REC'D | 11.UP | 12. UNIT WEIGHT | 13. UNIT CUBE | 14. UFC | 15. SL

16. FREIGHT CLASSIFICATION NOMENCLATURE

17. ITEM NOMENCLATURE

18. TY CONT | 19. NO CONT | 20. TOTAL WEIGHT | 21. TOTAL CUBE

22. RECEIVED BY

23. DATE RECEIVED 9/23/11

PREVIOUS EDITION MAY BE USED

24. DOCUMENT NUMBER & SUFFIX (30-44)

Basic Material Content: Munitions Debris, NO energetic material, steel.

Estimate Weight (lbs): 40 Pounds

Container ID No. Three Seal ID No. 350586/350587 350588

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

Site Address Patuxent Research Refuge, Laurel, Md

Site Telephone No. 813.343.6378

26. RIC (4-6) UI (23-24) QTY (25-29) CON CODE (71) DIST (55-56) UP (74-80)

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

27. ADDITIONAL DATA

Certified by:

Tony Tennyson/Brian Thompson Date 9/21/2011
Senior UXO Supervisor/Team Leader

Process verified by:

CLINT J. HENIKER Date 21 Sep 2011
USACE OE Safety Specialist

USA Environmental, Inc., 720 Brooker Creek Boulevard, Suite 204,Oldsmar, Florida 34677, Telephone 813.343.6336, Fax: 813.343.6337

Adobe Designer 7.0

Ship To: Timberline Environmental Services.
29925 Hwy 108
Cold Springs / Long Barn CA
95335

APPENDIX C

C.0 SITE MAPS

This appendix contains maps for the LTM 2011 effort.

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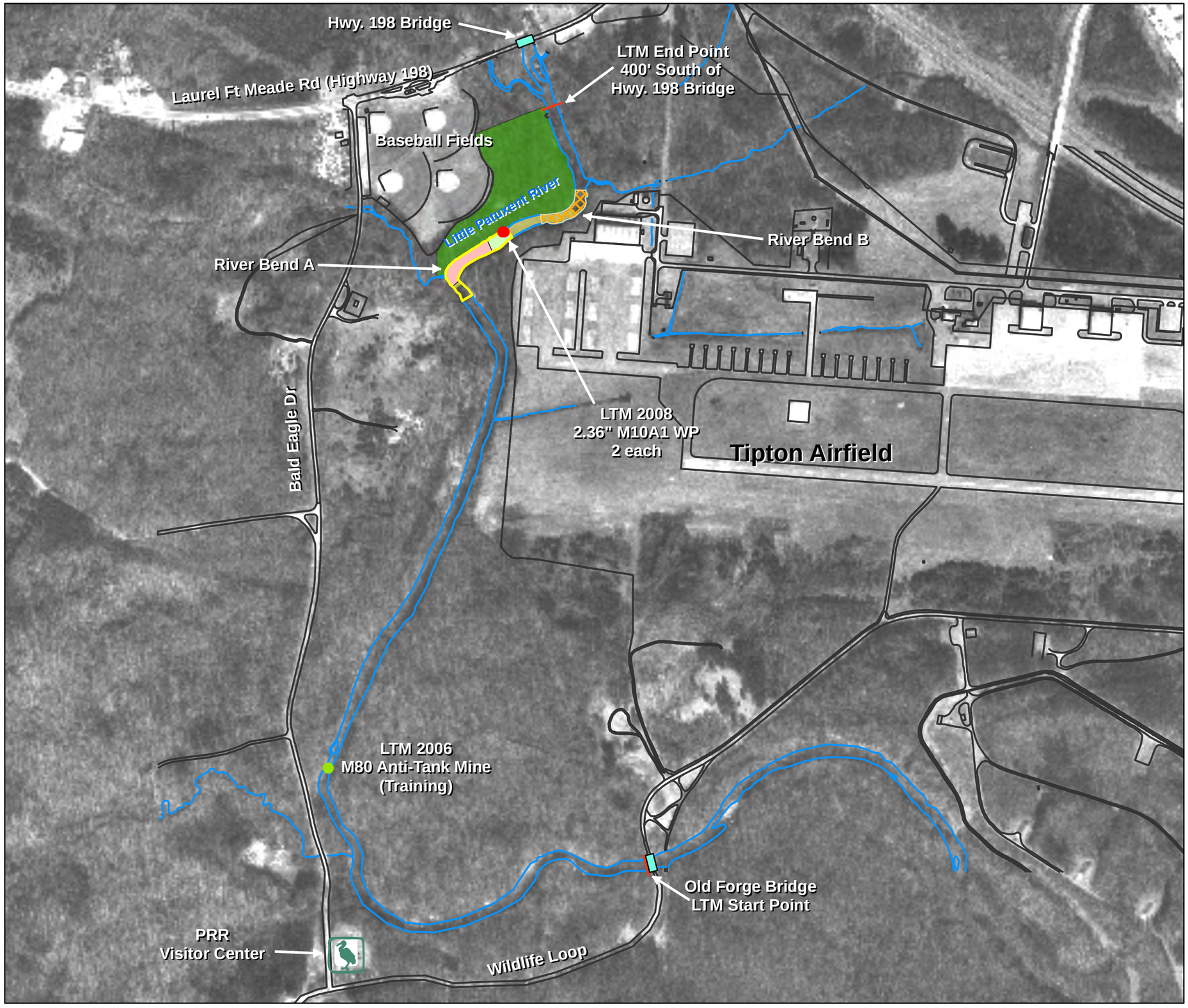

N

170 85 0 170

Meters

Data is projected to the State Plane Coordinate System: Maryland Zone, NAD83, Units in Meters.

Fort George G. Meade, Maryland

Figure C-1

Long Term Monitoring Overview Map

Legend

- WP Rocket Locations (LTM 2008)
- M80 Anti-Tank Mine (LTM 2006)
- Ft. Meade Features
- Little Patuxent River

Rocket Discovery Areas:

- Area 1
- LTM 2006/2007/2008/2009/2010/2011
- LTM 2007/2008/2009/2010
- LTM 2008
- LTM 2007
- LTM 2005

USA Environmental, Inc.		**US Army Corps of Engineers, Baltimore District**	
Drawn By:	SPC	Scale: 1 " = 170 m	Rev:
Checked By:		Date Drawn: 9/26/2011	
Submitted By:	DM	Revision Date:	
Path: S:\Ft Meade\LTM Overview Map.mxd			

LTM 2010 Findings		
Type	Qty.	Desc./Condition
2.36" M7A1 Rocket	48	Practice

N

36 18 0 36

Meters

Data is projected to the State Plane Coordinate System: Maryland Zone, NAD83, Units in Meters.

Fort George G. Meade, Maryland

Figure C-2

LTM - 2011

Legend

Ft. Meade Features

Little Patuxent River

Rocket Locations

LTM 2011 Rocket Locations

Area 1

USA Environmental, Inc.	**US Army Corps of Engineers, Baltimore District**

Drawn By:	SPC	Scale: 1 inch = 36 meters	Rev: 0
Checked By:		Date Drawn: 9/26/2011	
Submitted By:	DM	Revision Date:	

Path: S:\Ft Meade\Site Map(2011).mxd

N

36 18 0 36

Meters

Data is projected to the State Plane Coordinate System: Maryland Zone, NAD83, Units in Meters.

Fort George G. Meade, Maryland

Figure C-3

Area of Concern

Legend

- Ft. Meade Features
- Little Patuxent River
- Area of Concern
- Area 1

USA Environmental, Inc.		**US Army Corps of Engineers, Baltimore District**	
Drawn By:	SPC	Scale: 1 " = 36 m	Rev: 0
Checked By:		Date Drawn: 9/26/2011	
Submitted By:	DM	Revision Date:	
Path: S:\Ft Meade\Area of Concern.mxd			

APPENDIX D

D.0 QA/QC DOCUMENTATION

This appendix contains QA and QC documentation for this LTM 2011 effort.

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USA Environmental Inc.

SAFETY MEETING / TRAINING RECORD

DATE: 21 / SEP / 2011 **TIME:** 08:00 AM

LOCATION/SITE: Ft. Meade (River Walk).

1. Reason for Meeting/Training: (Check all that apply)	
(X)	Daily Safety Meeting/Training
(X)	Initial Site Safety Meeting/Training
	New Task Briefing
	Periodic Safety Meeting/Training
	New Site Procedures
	New Site Information
	Periodic Review of Site Information
	Other (Explain):

2. Personnel Attending Meeting/Training:

Name	Signature	Company / Position
Tennyson, Tony		USAE / SUXOS
Thompson, Brian		USAE / Tech III
Hagan, Samuel		USAE / Tech II
Litvjak, Andrew		USAE / Tech II
Long, Craig		USAE / Tech II
Wood, James		USAE / Tech II

USA Environmental Inc.

Safety Meeting/Training Record Con't:

3. Topics Covered (Check all that apply)

-X-	**Site Safety Personnel:** UXOSO K. Jones	-X-	**Decontamination Procedures:** Hand Washing, Good Hygiene
-X-	**Site / Work Area Description:** Swamp, Wooded / Grassy Areas	-X-	**Emergency Response Plan:**
-X-	**Site Characterization:** Rare – Bulk HE, Grenades, Rifle Grenades, Mortars, Projectiles, Rockets, Assorted Fuzes, and related Components	-X-	**Hazard Communication:** MSDS are Located within the Work Plan appendix. Do Attachment 1 for MSDS - Display
-X-	**Biological Hazard(s):** Flies, Spiders, Ants, Bees, Wasps, Snakes, and Poisonous plants	-X-	**On-Site Emergency:** Respond to specific emergency / Medical / Fire / Uncontrolled Detonation
-X-	**PPE :** Level D – Glasses, Boots, Gloves	-X-	**On-Site Injuries/Illnesses:** Extraction / Emergency personnel / Transport to Medical Facility
-X-	**Physical Hazard(s):** Slips, Trips & Falls, Uneven Terrain, Holes, Wet Areas, Cuts Punctures and Sprains	-X-	**Evacuation Procedures** Return to Vehicles / Listen for instruction / Site Evacuation / East or West Gate
-X-	**Heat Stress:** Drink Water	-X-	**Rally Point(s):** Equipment Area
-X-	**Cold Stress:** Dress for the weather	-X-	**Emergency Communication:** Radios & Cell Phones
-X-	**Site Control:** K40 Team Separation 20 ft / HFD 200 ft / Max Frag Dist 309 ft	-X-	**Directions to Medical Facility:** Posted in Work Plan and Vehicles
-X-	**Work and Support Zones:** Breaks should be taken away from work areas	-X-	**Drug and Alcohol Policy:** Posted in the WP: Drug Free Work Ent
-X-	**Chemical Hazard(s):** Not Anticipated	-X-	**Medical Monitoring Program**
	Air monitoring:	-X-	**Specific Task Training:** AHAs
-X-	**Safe Work Practices:** Follow the AHP – AEP – SHSP, AHAs, SOPs, and MSDS		**Driving:** Posted Speed Limits Seatbelts are always required
-X-	**Spill Containment Procedures:** Contain, Control & Clean-up		**Heavy Equipment:** N/A
-X-	**Engineering Controls and Equipment:**	-X-	**Confined Spaces:** N/A

4. Remarks: -Weather – Tuesday, Showers this morning becoming less numerous During the afternoon hours. High around 75F. Winds SSW at 5 to 10 mph. Chance of rain 40%.

5. Verification:

I certify that the personnel listed above on this record received the Information and/or Training described as indicated. Personnel not attending this meeting/training will receive said information/training prior to commencing their assigned duties.

Ken Jones

UXO Site Safety – Ken Jones

DATE: 21 / SEP / 2011

USA Environmental, Inc.

Tailgate Safety Briefing

Date: ____/____/____ **Location:** _____

Time: _____ **AM PM** **Team #:** _____

1. Reason for Briefing:

	Daily Safety Briefing		New Site Procedure
	Initial Safety Briefing		New Site Information
	New Task Briefing		Review of Site Information
	Periodic Safety Meeting		Other: (Specify)

2. Personnel Attending:

Name	Signature	Position
Andy Litvyak	Andy Litvyak	T-2
Jim Wood	Jim P. Wood	T-2
Sam Hagan	Sam Hagan	T-II
Craig Long	[illegible]	T-2

Briefing Given By:

Name	Signature	Position
Brian Thompson	BT	T III

3. Topics: (Check All That Apply)

✓	Site Safety Personnel		Decontamination Procedures
	Site/Work Area Description		Emergency Response/Equipment
✓	Physical Hazards		On-Site Injuries/Illnesses
	Chemical/Biological Hazards		Reporting Procedures
	Heat/Cold Stress	✓	Directions to Medical Facility
✓	Work/Support Zones		Drug and Alcohol Policies
✓	PPE		Medical Monitoring
	Safe Work Practices		Evacuation/Egress Procedures
	Air Monitoring		Communications
	Task Training		Confined Spaces
✓	MEC Precautions		Other:

4. Remarks:

USA
Quality Control Grid / Area Inspection Form

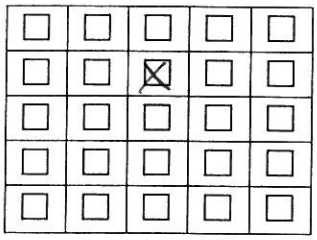
INSPECTION DATE: 9-21-11	**TIME:**	**GRID #:** 1
CONTRACT and TO #: 5910-011		
SITE NAME AND LOCATION: FT meade, MD RiverWALK		
INSPECTED BY: Ken Jones QC, Tony Tennyson SUXOS		

AREAS INSPECTED: (List by grid number, coordinates, name, or other identifier)
Bridge To Bridge was checked, Every Thing Found 48 complete Rds. and 5 motors were Found on edge OF MAP.

INSPECTION RESULTS

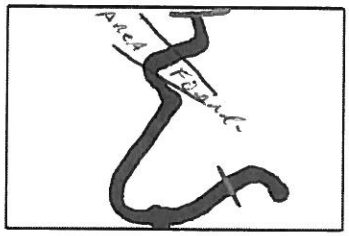
Item Description	Pass Yes/No	Item Description	Pass Yes/No
1. Work Performed IAW the Work Plan	☒ ☐	4. Correct Instrument Setting(s) Used	☒ ☐
2. Compliance with QC Requirements	☒ ☐	5. QC Criteria Understood	☒ ☐
3. Correct Instrument Used	☒ ☐	6. GRID / AREA RESULTS (Pass or Fail)	

FAILING DEFICIENCIES NOTED (Include type, #, depth, and location within grid as necessary):



SW Corner

Grid



Area

N

CORRECTIVE ACTIONS REQUIRED / RECOMMENDED:

REINSPECTION RESULTS: (If required)

SIGNATURES:

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary)

UXOQCS

Sr. UXO Supervisor / Project Manager

Note: QC Grid / Area Inspections are to be conducted prior to submission for QA and documented on this form. This form will also be used to document the present status of the grids / areas submitted for QC, and will also be used to note the current status of deficiencies noted during inspections. Any inspection where deficiencies have been noted will be forwarded to the Site Manager / SUXOS and a CC to the USA QC Manager.

APPENDIX E

E.0 SITE LOGS

This appendix contains site logs for the LTM 2011 effort.

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DAILY OPERATIONS SUMMARY

DATE: 9/ 20 / 2001 Dm

SITE / LOCATION: Ft Meade, Md

1. WORK SUMMARY

a. Work Accomplished:

	Number Completed	Total Remaining
(1) Survey	____	____
(2) Preparation	____	____
(3) Mag & Flag	____	____
(4) Geophysical	____	____
(5) Intrusive	____	____
(6) Quality Control	____	____
(7) Quality Assurance	____	____

b. Discrepancies: ____

c. Inspection Results:

	Pass	Fail
(1) Quality Control	____	____
(2) Quality Assurance	____	____
(3) Safety	____	____

2. INSTRUCTIONS RECEIVED FROM CUSTOMER REPRESENTATIVE: ____

Ensure You cover the entire area. Check downstream to ensure no rockets are moving down stream due to the weather.

OPS-1 Form

3. UXO SUMMARY

a. UXO Located:

Type:	Quantity:	Live/Prac.	Remarks:
2.36"Rockets, Complete	48	Practice	DE milled for shipment
2.36" Rockets, Motors	5	Practice	DE milled for shipment

b. **Demolition Supplies Expended:**

Type:	Quantity:	Remarks:

c. **Scrap Generation / Deposition:**

Type:	Quantity:	Weight:	Remarks:

4. Utilization

a. Daily Man-hours:

Labor Category:	Task #	M/H Today:	M/H 0% :	M/H 4%	M/H 8%
Site Manager					
SUXOS	5910	11	4	0	7
UXO Technician III	5910	9	2	0	7
UXO Technician II	5910	36	8	0	28
UXO Technician I					
Laborer					
UXOSO	5910	9	2	0	7
UXOQCS	5910				
Admin Personnel					
Visitor					
Sub-Contractor Personnel (List by Category)					

b. **Daily Equipment:**

Description:	Task:	Hours Used:	Hours Remaining:	% Hours Remaining:	Remarks:
Schonstedt	2	7			
Geophysical					
Truck (Heavy)	1	10			
Truck (Light)	1	10			
Radio, Base					
Radio, Handheld	3	10			
Backhoe					
Front-end Loader					
Rental Car	2	20			
GPS					
Weedeater					
Chainsaw					
Chipper					

5. **Operational Remarks: Completed the entire area, found what has been listed, x-rayed 21 rockets, all turned out to be PRACTICE, all x-rays were verified by the COE Rep on site.** The remaining 27 were breached and did not require x-raying to determine to be practice.

6. **Signature / Date:**

SUXOS/~~Site Manager~~

Date: 9/12/10

DAILY OPERATIONS SUMMARY

DATE: 9/ 21 / 2001

SITE / LOCATION: Ft Meade, Md

1. WORK SUMMARY

a. Work Accomplished:

	Number Completed	Total Remaining
(1) Survey	____	____
(2) Preparation	____	____
(3) Mag & Flag	____	____
(4) Geophysical	____	____
(5) Intrusive	____	____
(6) Quality Control	____	____
(7) Quality Assurance	____	____

b. Discrepancies: ____

c. Inspection Results:

	Pass	Fail
(1) Quality Control	____	____
(2) Quality Assurance	____	____
(3) Safety	____	____

2. INSTRUCTIONS RECEIVED FROM CUSTOMER REPRESENTATIVE: ____

Ensure You cover the entire area. Check downstream to ensure no rockets are moving down stream due to the weather.

OPS-1 Form

3. UXO SUMMARY

a. UXO Located:

Type:	Quantity:	Live/Prac.	Remarks:

b. **Demolition Supplies Expended:**

Type:	Quantity:	Remarks:

c. **Scrap Generation / Deposition:**

Type:	Quantity:	Weight:	Remarks:

4. Utilization

a. Daily Man-hours:

Labor Category:	Task #	M/H Today:	M/H 0% :	M/H 4%	M/H 8%
Site Manager					
SUXOS	5910	8	8	0	0
UXO Technician III					
UXO Technician II	5910	8	8	0	0
UXO Technician I					
Laborer					
UXOSO					
UXOQCS					
Admin Personnel					
Visitor					
Sub-Contractor Personnel (List by Category)					

b. Daily Equipment:

Description:	Task:	Hours Used:	Hours Remaining:	% Hours Remaining:	Remarks:
Schonstedt					
Geophysical					
Truck (Heavy)	1	8			
Truck (Light)	1	4			
Radio, Base					
Radio, Handheld					
Backhoe					
Front-end Loader					
Rental Car	2	12			
GPS					
Weedeater					
Chainsaw					
Chipper					

5. Operational Remarks: Demobbed SSO/QC, Tech III and 3 Tech II's. Cleaned and packed gear. Shipped all equipment to Oldsmar. Will ship the MD tomorrow.

6. Signature / Date:

SUXOS/Site Manager

Date: 9/22/11

OPS-1 Form

DAILY OPERATIONS SUMMARY

DATE: 9/ 22 / 2001

SITE / LOCATION: Ft Meade, Md

1. WORK SUMMARY

a. Work Accomplished:

	Number Completed	Total Remaining
(1) Survey	____	____
(2) Preparation	____	____
(3) Mag & Flag	____	____
(4) Geophysical	____	____
(5) Intrusive	____	____
(6) Quality Control	____	____
(7) Quality Assurance	____	____

b. Discrepancies: ____

c. Inspection Results:

	Pass	Fail
(1) Quality Control	____	____
(2) Quality Assurance	____	____
(3) Safety	____	____

2. INSTRUCTIONS RECEIVED FROM CUSTOMER REPRESENTATIVE: ____

Ensure You cover the entire area. Check downstream to ensure no rockets are moving down stream due to the weather.

OPS-1 Form

3. UXO SUMMARY

a. UXO Located:

Type:	Quantity:	Live/Prac.	Remarks:

b. **Demolition Supplies Expended:**

Type:	Quantity:	Remarks:

c. **Scrap Generation / Deposition:**

Type:	Quantity:	Weight:	Remarks:

4. Utilization

a. Daily Man-hours:

Labor Category:	Task #	M/H Today:	M/H 0% :	M/H 4%	M/H 8%
Site Manager					
SUXOS	5910	3	3	0	0
UXO Technician III					
UXO Technician II					
UXO Technician I					
Laborer					
UXOSO					
UXOQCS					
Admin Personnel					
Visitor					
Sub-Contractor Personnel (List by Category)					

b. Daily Equipment:

Description:	Task:	Hours Used:	Hours Remaining:	% Hours Remaining:	Remarks:
Schonstedt					
Geophysical					
Truck (Heavy)					
Truck (Light)					
Radio, Base					
Radio, Handheld					
Backhoe					
Front-end Loader					
Rental Car					
GPS					
Weedeater					
Chainsaw					
Chipper					

5. Operational Remarks: Demobbed SUXOS and Tech II, Shipped the MD. Departed the site.

6. Signature / Date:

SUXOS/Site Manager

Date: 9/22/11

OPS-1 Form