FORT GEORGE G. MEADE
LEGACY BASE REALIGNMENT AND CLOSURE PROGRAM

Long-Term Monitoring Report

2012 Little Patuxent River Sweep

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Final

Fort George G. Meade Legacy Base Realignment and Closure Program
Long-Term Monitoring Report – 2012 Little Patuxent River Sweep
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USA Environmental, Inc.

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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
HEAT	High Explosive Anti-Tank
IAW	In Accordance With
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

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 2012 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 2012 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 20 pounds 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 Meetings and Community Involvement

The Senior UXO Supervisor (SUXOS) participated in an on-site coordination meeting with the USFWS PRR representative on Tuesday, 11 September 2012. 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

This chapter describes the procedures and methodologies used to execute the work associated with Task Order No. DO29-02 of Contract No. W912DR-09-D-0017. 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 11 September 2012. 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 11 September 2012, 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. 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. Unlike previous years, only 10 items were recovered, all consisting of 2.36-inch rockets. All 10 items items were found near the bend of the river near the ball field (see Figures C-1 and C-2 in Appendix C). All 10 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. All 10 rockets were x-rayed and nine were confirmed to be expended practice rounds. The 10th round was determined to be a high explosive anti-tank (HEAT) round and subsequently disposed of (refer to section 2.3.4). Picture 2-3 shows the live 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. Picture 2-6 shows the x-ray image of the live rocket. 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 2012 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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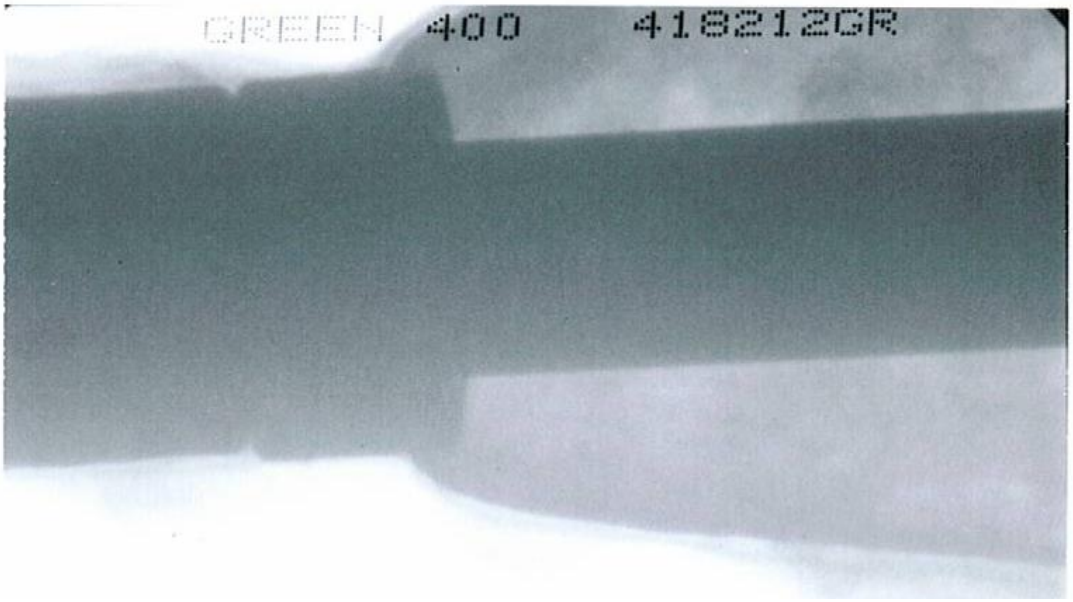
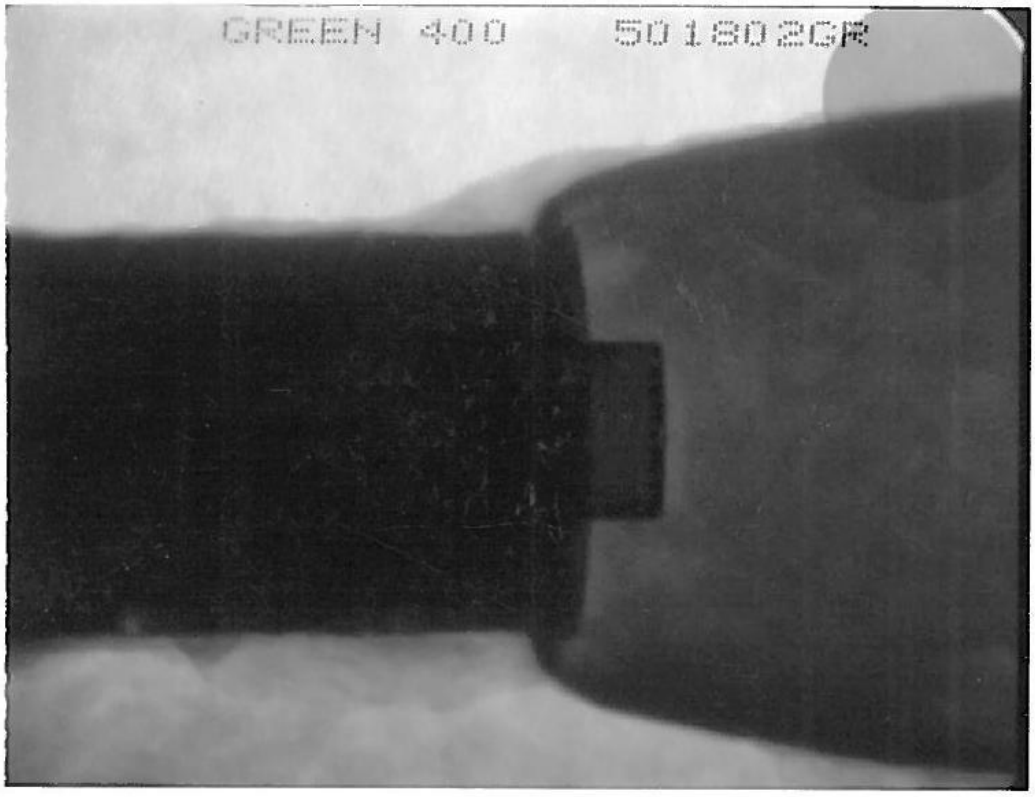
Picture 2-2: Remote Removal of MEC/MPPEH (Example)

Picture 2-3: X-Ray Operation-Live 2.36-inch Rocket Recovered on 12 September 2012

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



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



Picture 2-6: X-Ray Image of Live 2.36-inch Rocket Recovered on 12 September 2012

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

The one MEC item (2.36 inch HEAT round) recovered on 12 September 2012 required onsite disposal. USA ordered on-call delivery of explosives and was able to dispose of the item on the afternoon of 12 September 2012, after making all required notifications in accordance with (IAW) the approved work plan. Explosives usage records are included in Appendix B.

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 a 5-gallon container. The container was 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. Per the Certificate of Destruction, 20 pounds 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 Wednesday, 13 September 2012. 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

This chapter provides cost data for the performance of all operations at the project site. Table 3-1 shows the firm fixed price (FFP) for this 2012 LTM at the Little Patuxent River riverbed and riverbanks.

Table 3-1: Project Costs – LTM 2012

Task/Activity	Unit	Price
2012 Long Term Monitoring of Little Patuxent River	FFP	$39,728.00

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CHAPTER 4. 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 (2012) LTM effort, one MEC and 9 MD items associated with 2.36-inch rockets were recovered from the river.

The MEC team recovered ten (10) 2.36-inch practice rockets. All 10 were initially suspected MEC/MPPEH and were remotely removed from the riverbed. The 10 items were x-rayed and nine were confirmed to be expended practice rounds. One was determined to be a live HEAT round and was subsequently disposed of onsite. 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 20-lb was properly packaged and shipped to TES for final disposal.

During past LTM MEC removal actions of the Little Patuxent River, USA recovered 687 expended practice rockets. With the 10 rockets (nine practice, one live) found during this 2012 LTM effort, this brings the total number of rockets recovered to 697. Total MEC items found over the same period include the one HEAT round recovered during the 2012 investigation, the two M10A1 2.36-inch White Phosphorus-filled rockets recovered during the 2008 LTM effort, and the two live practice rocket motors found during the 2005 LTM effort, bringing the total MEC items to five for all LTM efforts.

Similar to the findings of the 2011 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.

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

4.1 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. The 2012 effort resulted in the recovery of one live HEAT round. Based on the results of the 2005, 2008, and 2012 LTM efforts, the potential for MEC hazards exists. The segment of the river where these MEC items have been found is off-limits to recreational users; however, potentially, a trespassing fisherman who wades in this river segment could encounter similar MEC items.
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, resulted in only one item requiring on-site explosive disposal during this 2012 LTM.

4.2 RECOMMENDATIONS

Based on the results of all previous LTM efforts and the 2012 LTM finding of one live 2.36-inch HEAT round and the 2008 LTM finding of two 2.36-inch M10A1 White Phosphorus rockets, USA makes the following recommendations.

- Conduct the annual Little Patuxent River sweep IAW the SOW presented in Appendix A which describes the protocol that has been followed for the annual sweeps.
- Continue to place the segment of the Little Patuxent River where the annual river sweep is conducted off limits to fishing and public access, particularly the AOC illustrated in Figure C-3.
- Continue to deal with violations of USFWS policy of 'no fishing and no public access' by referring such violations to the Refuge LE.
- Maintain 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 continue to evaluate river stage data and discuss the river stage status with Patuxent Research Refuge personnel 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 2012 effort.

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Scope of Work (SOW)
2012 Annual Little Patuxent River Clearance
Patuxent Research Refuge

This project involves:

- Clearance 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.

This project will be conducted in the same mannor as it has been conducted in prior years, including the OPTIONS for UXO guarding and UXO demolition, if necessary

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 2012 effort.

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On September 14, 2012, the contents of sealed container # 1, Seal ID # 436382 were received from USA Environmental, Inc., Patuxent River Refuge, project site located in Laurel, MD. Timberline Environmental Services, Inc. (TES Inc.) has reviewed the provided supporting documentation signed for the sealed container and agrees 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
President
TES Inc.

29925 Hwy 108 Cold Springs, CA 95335 209-965-3118 FAX 209-965-4721

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

1 2 3	4 5 6	7	23 24	25 26 27 28 29	45 46 47 48 49 50	51 52	53 54 55 56	57 58 59	60 61	62 63	64 65	66 67 68	69	70 71	72 73	74 75 76 77 78 79 80
DOCUMENT	RI FROM	M&S	UNIT	ISS QUANTITY	SER SUPPLEMENTARY ADDRESS	SIG	FUND	DISTRIBUTION	PROJECT	PRI	REQD	DELDATE	ADV	RI	O/P	COND MGT

1. TOTAL PRICE			2. SHIP FROM	3. SHIP TO
UNIT PRICE	DOLLARS	CTS		
DOLLARS	CTS		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
J Fackes	9-14-12

PREVIOUS EDITION MAY BE USED

24. DOCUMENT NUMBER & SUFFIX (30-44)

Basic Material Content MUNITIONS DEBRIS (MD)
NO ENERGETIC MATERIAL

Estimate Weight (lbs) 25 LBS

Container ID No. 1 Seal ID No. 436382

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

Site Address PATUXENT RIVER 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)

27. ADDITIONAL DATA

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

Certified by: James Kerns Date 9/12/12
Senior UXO Supervisor/Team Leader

Process verified by: 12 SEP 2012 Date
USACE OE Safety Specialist
CLINT J. HENKER
NAB USACE

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

Adobe Designer 7.0

TIMBERLINE Environmental Services

Certificate of Destruction

Sealed Container Generating Contractor **USA Environmental**

Generating Location **Patuxent River Refuge**

Gross Weight **20 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# **092512** *Date* **09/25/12**

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

Signature _____

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

EXPLOSIVE USAGE RECORD

Contract Number: 5019-012

Project Name: Patuxent River Walk

Team Number: 1

Date: 9/12/2012

Team Leader: Mike Sanford

Work Area/Grid Number: Patuxent River

EXPLOSIVES	LOT NUMBER	QUANTITIES						SIGNATURES	
		Issued	*Initials*	*Used*	*Initials*	*Returned*	*Initials*	*Team Leader*	*Checker*
Cap Blasting Non-El 60ft	14NO11X1	4	[illegible]	4	[illegible]	0	[illegible]	[illegible]	[illegible]
Non-EL Lead Line	21MY12W1	2500 ft	[illegible]	2500 ft	[illegible]	0	[illegible]	[illegible]	[illegible]
Cord Detonating 50 Grain	30MA11G1	10 ft	[illegible]	10 ft	[illegible]	0	[illegible]	[illegible]	[illegible]
Booster, 1 LB	13JY12J2	1	[illegible]	1	[illegible]	0	[illegible]	[illegible]	[illegible]

Reviewed and Accepted by: Senior UXO Supervisor James Keesee Date: 12-Sep-12

USA Environmental, Inc.

DYNO
Dyno Nobel

DYNO NOBEL INC. Whitehall, MD. 8MD-005-20-3A-00305	SHIPPING DOCUMENT	D.T. NUMBER: 206278

SOLD TO: U.S.A. Environmental	SHIP DATE: September 12, 2012
SHIP TO: Ft. Meade, Maryland Patuxent Wildlife Research Center 1-FL-103-20-4J-00784	PURCH. ORDER

PACKAGES NUMBER	PACKAGES SIZE	PRODUCT DESCRIPTION	DATE CODE	QUANTITY	FOR OFFICE USE ONLY
SP0450	1#	Spartan 450 (BM-3)	13JY12J2	1 ea.	
DA11660	60'	60' MS/350ms (BM-1	14NO11X1	4 ea.	
A349030	50 GR/FT.	Primacord 10 (BM-3)	30MA11G1	10 FT.	
DJ25025	2,500'	headline (BM-3)	21MY12W1	1 spool	
		Delivery Fee		1 ea.	

AUTHORIZED SIGNATURE → [signature] Steven E. Weidner

DOCUMENTS, DOCUMENT NUMBERS, AND TRIP INFORMATION FOR OFFICE USE

TRIP MANIFEST:	BLAST REPORT:	PRODUCT USAGE:
A.T.F. FORM:	BLAST WORKSHEET:	ORDER WORKSHEET:

APPENDIX C

C.0 SITE MAPS

This appendix contains maps for the LTM 2012 effort.

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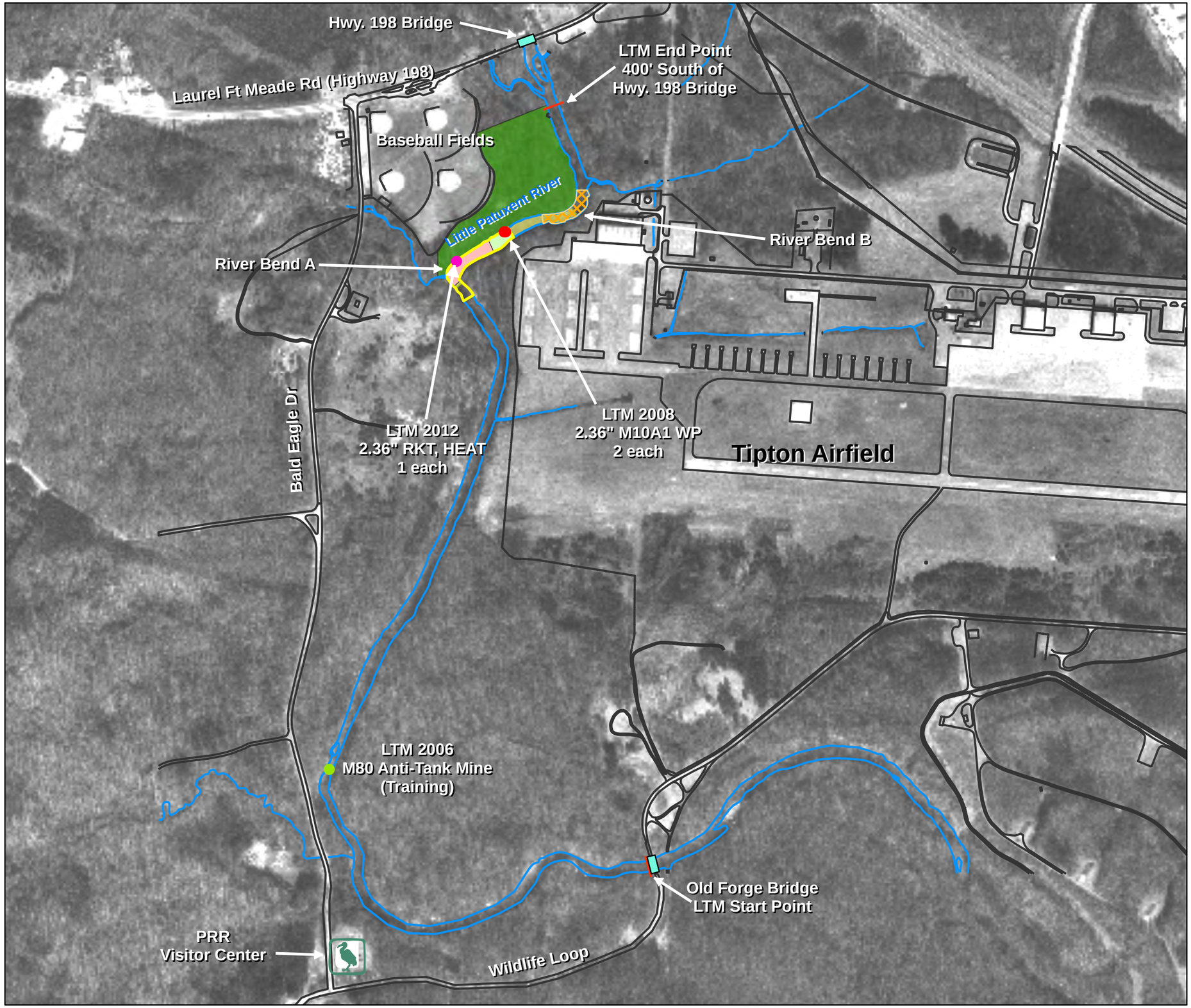


N

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

- 2.36" RKT, HEAT (LTM 2012)
- WP Rocket Locations (LTM 2008)
- M80 Anti-Tank Mine (LTM 2006)
- Ft. Meade Features
- Little Patuxent River

Rocket Discovery Areas:

- Area 1
- LTM 2006/2007/2008/2009/2010/2011/2012
- 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: 10/3/2012	
Submitted By:	DM	Revision Date:	

Path: S:\Ft Meade\LTM Overview Map.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-2

LTM - 2012

Legend

Ft. Meade Features

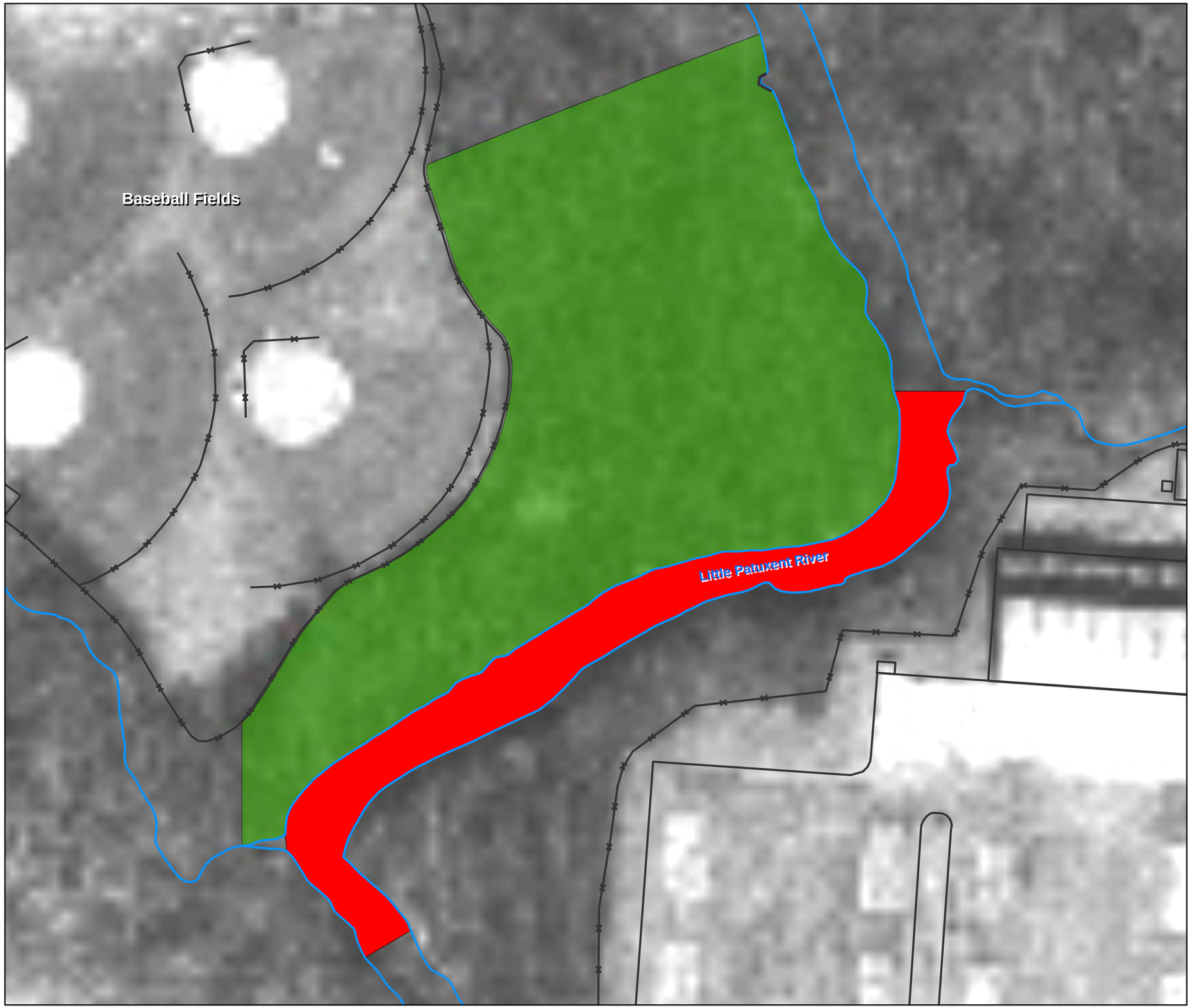
Little Patuxent River

Rocket Locations

LTM 2012 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: 10/3/2012	
Submitted By: DM	Revision Date:	
Path: S:\Ft Meade\Site Map(2012).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: 10/3/2012	
Submitted By:	DM	Revision Date:	
Path: S:\Ft Meade\Area of Concern.mxd			

APPENDIX D

D.0 QA/QC DOCUMENTATION

This appendix contains QA/QC documentation for this LTM 2012 effort.

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LONG TERM MONITORING PROGRAM
Little Patuxent River Walk
Ft. Meade/Laurel, MD

ACCIDENT PREVENTION PLAN AND SITE HEALTH AND SAFETY PLAN ACKNOWLEDGEMENT

I have read, understand, and agree to abide by the provisions as detailed in this Accident Prevention Plan and Site Health and Safety Plan prepared by USA Environmental, Inc. Failure to comply with thes provisions may lead to disciplinary action and/or dismissal from the work site.

PRINTED NAME	COMPANY	SIGNATURE	DATE
Andy Litryak	USAE	[illegible]	9/11/12
Joseph Swilder IV	USAE	[illegible]	9/11/12
Wayne Mawthey	USAE	[illegible]	9/11/12
MICHAEL SANFORD	USAE	[illegible]	9/11/12
Dee Clark	USAE	Dee Clark	9/11/12
James Keesee	USAE	[illegible]	9/11/12
Jeffrey Brewer	USACE	[illegible]	9/11/12
Steven E. Weidner	USAE	[illegible]	9/11/12

FT MEADE LITTLE PATUXENT RIVER PROJECT, FT MEADE, MD

SAFETY MEETING/TRAINING RECORD

DATE: 9-11-12 **TIME: 0900**

LOCATION/SITE: FORT MEADE, MARYLAND

1. Reason for Meeting/Training: (Check all that apply)	
XX	**Daily Safety Meeting/Training**
	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	Position
JAMES KEESEE		SUXOS
MICHAEL SANFORD		TECH III
DENISE CLARK		TECH II
ANDREW LITVJAK		TECH II
WAYNE MANTHEY		TECH II
JOSEPH WILDER		TECH II
Jeffrey Brewer		OESS

FT MEADE LITTLE PATUXENT RIVER PROJECT, FT MEADE, MD

SAFETY MEETING/TRAINING RECORD

DATE: 9-12-12 **TIME: 0700**

LOCATION/SITE: FORT MEADE, MARYLAND

1. Reason for Meeting/Training: (Check all that apply)	
XX	**Daily Safety Meeting/Training**
	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	Position
JAMES KEESEE	James Keesee	SUXOS
MICHAEL SANFORD	Michael L. Sanford	TECH III
DENISE CLARK	Dee Clark	TECH II
ANDREW LITVJAK	Andy Litvjak	TECH II
WAYNE MANTHEY	[illegible]	TECH II
JOSEPH WILDER	[illegible]	TECH II
CLINT I. HENKER	[illegible]	USACE

USA Environmental, Inc.

Safety Meeting/Training Record Cont.:

3. Topics Covered (Check all that apply)			
XX	Site Safety Personnel		Decontamination Procedures
XX	Site/Work Area Description	XX	Emergency Response Plan
	Site Characterization		Hazard Communication
	Biological Hazard(s)		On-Site Emergency
	Chemical Hazard(s)		On-Site Injuries/Illnesses
	Physical Hazard(s)		Evacuation Procedures
XX	Heat Stress		Rally Point(s)
	Cold Stress		Emergency Communication
	Site Control		Directions to Medical Facility
	Work and Support Zones		Drug and Alcohol Policies
XX	PPE		Medical Monitoring Program
	Air monitoring		Specific Task Training
XX	Safe Work Practices		Confined Spaces
	Engineering Controls and Equipment		Heavy Equipment
	Spill Containment Procedures		Other: (Specify) Demo Ops

4. Remarks: Weather: Sunny, high 81 degrees, winds NE 5-10 mph. Slips, trips, falls, PPE, hydrate. Be sure to check yourself for ticks at the end of the day. Use bug spray and replenish as needed. Use hats and/or sun screen for sun protection as you will also have the sun reflecting off the water.

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.

STEVEN E. WEIDNER
Site Safety Officer

Date: 9-12-12

USA Environmental, Inc.

Tailgate Safety Briefing

Date: 9 / 11 / 12 **Location:** Ft Meade, MD

Time: 0945 AM PM **Team #:** _____

1. Reason for Briefing:

X	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
Dee Clark	Dee Clark	T-II
Andy Litvjak	[signature]	T-II
Wayne Manthey	[signature]	T-II
Joseph S Wilder IV	[signature]	T-II

Briefing Given By:

Name	Signature	Position
MICHAEL SANFORD	[signature]	T-3

3. Topics: (Check All That Apply)

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

4. Remarks:

USA Environmental, Inc.

Tailgate Safety Briefing

Date: 98 / 12 / 12 **Location:** Ft Meade, MD

Time: 0800 **AM PM** **Team #:** _____

1. Reason for Briefing:

X	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 Lotzyak	Andy Lotzyak	T-2
Dee Clark	Dee Clark	T-2
Wayne Manthey	[illegible]	T-2
Joseph Wilder	[illegible]	T-2

Briefing Given By:

Name	Signature	Position
MICHAEL SANFORD	[illegible]	TECH III

3. Topics: (Check All That Apply)

	Site Safety Personnel		Decontamination Procedures
	Site/Work Area Description		Emergency Response/Equipment
X	Physical Hazards	X	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
X	MEC Precautions		Other:

4. Remarks:

USA

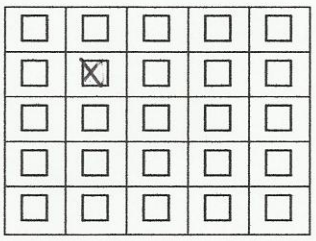
Quality Control Grid / Area Inspection Form

INSPECTION DATE: 9/12/12	**TIME:**	**GRID #:** 1
CONTRACT and TO #: 5910-012		
SITE NAME AND LOCATION: Riverwalk, Little Patuxent River, Ft Meade MD		
INSPECTED BY: Steven E. Weidner		
AREAS INSPECTED: (List by grid number, coordinates, name, or other identifier) Little Patuxent River, bridge to bridge. Recovered 10 each complete 2.36" Rockets (9 each practice and 1 each live).		

INSPECTION RESULTS

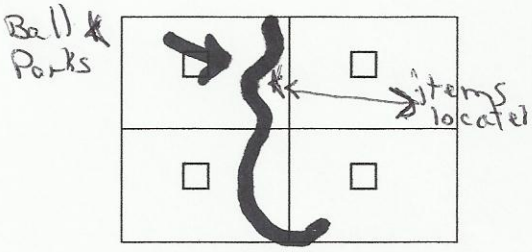
Item Description	Pass Yes/No	Item Description	Pass Yes/No
1. Work Performed IAW the Work Plan	☒ ☐	4. Correct Instrument Setting(s) Used	☒ ☐
2. Compliance with QC Requirements	☒ ☐	5. QC Criteria Understood	☒ ☐
3. Correct Instrument Used	☒ ☐	6. GRID / AREA RESULTS (Pass or Fail)	

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



SW Corner

Grid



Area

CORRECTIVE ACTIONS REQUIRED / RECOMMENDED:

REINSPECTION RESULTS: (If required)

SIGNATURES:

Steven E. Weidner

UXOQCS

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

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 2012 effort.

This space is intentionally left blank.

DAILY OPERATIONS SUMMARY

DATE: 11-Sep-12 Tuesday PAGE 1 of 6

SITE / LOCATION: Ft Meade, MD (Riverwalk)

1. WORK SUMMARY

	Number Completed	Cumulative Total
(1) Survey	0	0
(2) Grids Surface Swept	0	0
(3) Mag & Flag	0	0
(4) Geophysical	0	0
(5) Intrusive	0	0
(6) Quality Control	0	0
(7) Quality Assurance	0	0

2. Special Instructions from customer Representative:

	Pass	Fail
(1) Quality Control	0	
(2) Quality Assurance	0	
(3) Safety	0	

3. UXO SUMMARY

a. UXO Located:

	Type:	Quantity:	Live/Prac.:	Remarks
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				

b. Demolition Supplies Expended:

	Type:	Quantity:	Remarks:
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			

c. Scrap Generation / Disposition:

Type:	Quantity:	Weight:	Remarks:
MD		0 Lbs	Awaiting disposition
RRD		0 Lbs	Awaiting disposition
MPPEH		0 Lbs	Awaiting disposition

4. Utilization

a. Daily Man-Hours:

Labor Category:	Task #	M/H Today	M/H 0%	M/H 4%	M/H 8%
SUXOS	5910	11	4	0	7
UXO Tech III	5910	10	3	0	8
UXO Tech II	5910	40	12	0	28
UXO Tech I		0	0	0	0
FOA					
UXOSO	5910	10	3	0	7
UXOQCS	5910	0	0	0	0
Admin Pers					
Visitor					
Sub-Contractor Personnel (List by Category)					

b. Daily Equipment:

Description:	Qty:	Hours Used	Total Hrs	% Hours Remaining	Remarks
Schonstedt	4	8	32		
Mine Lab		0			
White		0			
Trucks (Pickups)	2	10	20		
Radio, Portable	3	8	24		
Trimble PDA		0			
Excavator		0			
RTK		0			
Weedeater		0			
Chainsaw		0			
Bobcat		0			
Sky Trak Forklift		0			
X-Ray	1	0	0		

5. Operational Remarks:

0630 Suxos meeting with all personnel (Issue Equipment)
0745 Load equipment at the Hotel and depart for site
0805 Dpt hotel for site
0825 Arrive at ranger station meet Corps of Engineer Rep Jeffries Brewer
0845 Bill Easton from URS arrives and begin SHSP brief
0940 Complete in brief move to Old Forge Bridge
0955 Tailgate Safety Brief by Team Leader
1005 Enter water and begin Riverwalk
1200 Make decision to continue Riverwalk until before the bend in river where suspected
2.36 in rkts are nomally located prior to breaking for lunch
1330 Break for lunch
1400 Resume opns North of suspected area and continue to approx 400ft south of Hwy
198 Bridge
1600 Complete riverwalk for today
1620 Return to support area (Ball fields) and secure equipment
1700 End of Day

Summary: Walked approximately 9/10th of a mile.

Recommendations: Make sure team purchases wooden paint roller extensions (5ft long) which are invaluable as walking sticks in the river to maintain balance when navigating the smooth rocks covered by very slippery algae.

6. Signature / Date:

Jim Keesee
SUXOS/Proj Mgr

Date: **11-Sep-12**

OPS-1 Form

DAILY OPERATIONS SUMMARY

DATE: 12-Sep-12 Wednesday PAGE 1 of 6

SITE / LOCATION: Ft Meade, MD Riverwalk

1. WORK SUMMARY

	Number Completed	Cumulative Total
(1) Survey	0	0
(2) Grids Surface Swept	0	0
(3) Mag & Flag	0	0
(4) Geophysical	0	0
(5) Intrusive	0	0
(6) Quality Control	0	0
(7) Quality Assurance	0	0

	Pass	Fail
(1) Quality Control	0	
(2) Quality Assurance	0	
(3) Safety	0	

3. UXO SUMMARY

a. UXO Located:

	Type:	Quantity:	Live/Prac:	Remarks
	2.36 in Rkt, Heat	1	Live	BIP
1				
2	2.36 in Rkt, Pract	9	Practice	Demilled for Shipment
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
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25				
26				
27				
28				
29				
30				
31				
32				
33				
34				

b. Demolition Supplies Expended:

	Type:	Quantity:	Remarks:
1	Booster, 1LB	1	13JY12J2
2	Cap Blasting Non-el	4	14NO11X1
3	Prima Cord 50 Grain	10 ft	30MA11G1
4	Leadline	2500 ft	21MY12W1
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			

c. Scrap Generation / Disposition:

Type:	Quantity:	Weight:	Remarks:
MD	10	**25**	**To Timberline**
RRD		**0 Lbs**	**Awaiting disposition**
MPPEH		**0 Lbs**	**Awaiting disposition**

4. Utilization

a. Daily Man-Hours:

Labor Category:	Task #	M/H Today	M/H 0%	M/H 4%	M/H 8%
SUXOS	5910	11	3	0	8
UXO Tech III	5910	10	2	0	8
UXO Tech II	5910	40	8	0	32
UXO Tech I		0	0	0	0
FOA					
UXOSO	5910	10	2	0	8
UXOQCS	5910	0	0	0	0
Admin Pers					
Visitor					
Sub-Contractor Personnel (List by Category)					

b. Daily Equipment:

Description:	Qty:	Hours Used	Total Hrs	% Hours Remaining	Remarks
Schonstedt	4	8	32		
Mine Lab		0			
White		0			
Trucks (Pickups)	2	10	20		
Radio, Portable	4	8	32		
Trimble PDA		0			
Excavator		0			
RTK		0			
Weedeater		0			
Chainsaw		0			
Bobcat		0			
Sky Trak Forklift		0			
X-Ray	1	0	5		

5. Operational Remarks:

0700 Load Equipment
0715 Dpt Hotel for site
0730 Arrive at Ranger Office for sign in (no one present)
0745 Dpt ranger site for ballfield area
0800 SHSP brief/Tailgate safety
0805 Personnel dress out for river walk
0815 Begin riverwalk at the southern river bend moving north in the area known to have items in the past
1050 Sweep of area completed QC is conducting X-ray.
1105 The 10th round X-rayed was found to be a live heat round
1110 Contacted the OE Rep Clint Henker that we believe a live heat round (based on the X-Ray results has been identified
1120 Contacted USA E PM so he could make appropriate notifications
1155 Called Adam Chionchio to plan for delivery of explosives for demo opns today possibly
1235 Advised PM that we would in fact have to conduct demo opns
1258 Adam called and advised that Dyno-Nobel would attempt to deliver demo around 1500 to 1600 hrs.
1335 Notified PM that we would be able to do demo today
1340 Demo team preps area for demolition operations

1500 Demoliton material arrived on site (notifications made to necessary agencies)
1520 Conduct demo Safety and Opns Brief
1530 Begin Shot setup
1550 Shot set and tamped
1551 Permission to prime
1552 Shot primed
1557 Permission to fire
1558 Shot fired
1603 Check shot
1610 Shot Clear
1610 Demo opns complete
1615 Cleanup operations (backfill hole, cleanup non-el, etc)
1720 Debrief demo operations
1730 End of Day

Summary: completed last 200-300 ft of the riverwalk recovered 10 2.36 in rkts 1 of which was determined to be live via the x-ray. Conducted demo operations on the 2.36 in rkt (BIP) Demilled the remaining 9 rkts and packaged them for shipment to Timberline.

6. Signature / Date:

Jim Keesee

Jim Keesee
SUXOS/Proj Mgr

Date: **12-Sep-12**

OPS-1 Form

DAILY OPERATIONS SUMMARY

DATE: 13-Sep-12 Thursday PAGE 1 of 5

SITE / LOCATION: Ft Meade, MD Riverwalk

1. WORK SUMMARY

	Number Completed	Cumulative Total
(1) Survey	0	0
(2) Grids Surface Swept	0	0
(3) Mag & Flag	0	0
(4) Geophysical	0	0
(5) Intrusive	0	0
(6) Quality Control	0	0
(7) Quality Assurance	0	0

	Pass	Fail
(1) Quality Control	0	
(2) Quality Assurance	0	
(3) Safety	0	

3. UXO SUMMARY

a. UXO Located:

	Type:	Quantity:	Live/Prac.:	Remarks
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
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21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				

b. Demolition Supplies Expended:

	Type:	Quantity:	Remarks:
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			

c. Scrap Generation / Disposition:

Type:	Quantity:	Weight:	Remarks:
MD		0 Lbs	Awaiting disposition
RRD		0 Lbs	Awaiting disposition
MPPEH		0 Lbs	Awaiting disposition

4. Utilization

a. Daily Man-Hours:

Labor Category:	Task #	M/H Today	M/H 0%	M/H 4%	M/H 8%
SUXOS		6	6	0	0
UXO Tech III		5	5	0	0
UXO Tech II		20	20	0	0
UXO Tech I		0	0	0	0
FOA		0	0	0	0
UXOSO		0	0	0	0
UXOQCS		0	0	0	0
Admin Pers					
Visitor					
Sub-Contractor Personnel (List by Category)					

b. Daily Equipment:

Description:	Task:	Hours Used	Hours Remaining	% Hours Remaining	Remarks
Schonstedt		0			
Mine Lab		0			
White		0			
Trucks (Pickups)		0			
Radio, Portable		0			
Trimble PDA		0			
Excavator		0			
RTK		0			
Weedeater		0			
Chainsaw		0			
Bobcat		0			
Sky Trak Forklift		0			

5. Operational Remarks:

Safety/QC Demobed this AM

0800 Briefed all personnel on close out operations
0815 Begin cleaning and packing all equipment for shipment
1115 All equipment boxed up, load trucks and take to Fedex/Kinko
1140 Trucks taken to carwash and fueled
1250 Close out complete
1300 End of day

Remaining personnel to demob 9/14/12

6. Signature / Date:

Jim Keesee

Jim Keesee
SUXOS/Proj Mgr

Date: 13-Sep-12

OPS-1 Form

APPENDIX F

F.0 RESPONSES TO COMMENTS

This appendix contains copies of the following regulator letters, each indicating “no comments”:

- US Environmental Protection Agency letter of 20 December 2012
- Maryland Department of the Environment letter of 14 December 2012.

This space is intentionally left blank.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

December 20, 2012

Steve Cardon, CHMM
BRAC Environmental Coordinator
Dept. of Army DPW - Environmental Division
239 Chisholm Avenue, Suite 5115
Fort George G. Meade, MD. 20755-7068

Subject: 2012 Little Patuxent River Sweep

Mr. Cardon:

Thank you for the opportunity to review the subject document. EPA submits no additional comments and it is the opinion of EPA that the document is ready for inclusion in the administrative record for the site (if applicable).

If you have any questions, please contact me at 215-814-3378.

Sincerely,

John Burchette
Remedial Project Manager

cc: Dr. Elisabeth Green

MDE

MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore MD 21230
410-537-3000 • 1-800-633-6101• www.mde.state.md.us

Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Secretary

December 14, 2012

Office of the Assistant Chief of Staff for Installation Management; BRACD
Attn: Mr. Markus Craig
NC3 – Taylor Building
2530 Crystal Drive #5064 A
Arlington, VA 22202

RE: Draft Long-Term Monitoring Report, 2012 Little Patuxent River Sweep, Fort George G. Meade Legacy Base Realignment and Closure Program – December 2012

Dear Mr. Craig:

The Federal Facilities Division (FFD) of the Maryland Department of the Environment's Land Restoration Program has reviewed the referenced document. The FFD has no comment on this document, and looks forward to receipt of the final for incorporation into our site files.

If you have any questions, please contact me at (410) 537-3346.

Sincerely,

Elisabeth G. Green

Elisabeth Green, Ph.D.
Remedial Project Manager
Federal Facilities Division

EG:eg

cc: Mr. Steve Cardon
Mr. John Burchette
Mr. Horacio Tablada
Mr. James Carroll

DEC 2 7 2012