
FINAL
OVERSIGHT REPORT
ELKTON FARMS FIREHOLE, MARYLAND

AUGUST 2006

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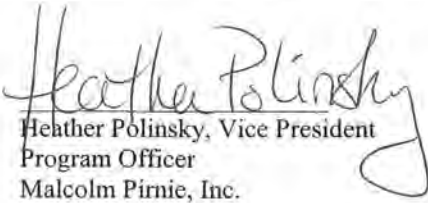
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FINAL

OVERSIGHT REPORT
ELKTON FARMS FIREHOLE, MARYLAND

Contract Number: EP-S3-05-02

Reviewed and Approved by:


Heather Polinsky, Vice President
Program Officer
Malcolm Pirnie, Inc.


AL Larkins
Project Manager
Malcolm Pirnie, Inc.

Malcolm Pirnie, Inc. prepared this report based on Oversight detailed in SOW dated 14 March 2006 and in accordance with the proposal of Malcolm Pirnie to Tetra Tech dated 04 May 2006. This document should be used only with the approval of Tetra Tech.

AUGUST 2006

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1 PURPOSE AND TASKING PERIOD

This report; Oversight of MEC removal operations at Elkton Farm Firehole, Maryland, performed by Malcolm Pirnie Inc., is provided as contracted thru Tetra Tech EM Inc. to the U.S. Environmental Protection Agency (EPA) under prime contract EP-S3-05-02. The contracted time period was 6 to 8 weeks. The specific time period is from 15 May 2006 to 23 June 2006.

2 OVERSIGHT OF PHASE OPERATIONS

On 15 May, 2006, Malcolm Pirnie Inc. Senior UXO Advisor/Supervisor, Steven Burhans, arrived at the Elkton Farm Firehole, MD site to provide oversight of Phase II operations for the Environmental Protection Agency (EPA) Region III, under contract EP-S3-05-02.

As per specifications of the contract, a system of reports was instituted to report Phase II activities each day. During Phase II the UXO subcontractor Info Pro Corporation (IPC) used the Range Master and the Tractor Accessorized Zerriest (TAZ) to recover MEC on site.

The Range Master was used during the first week of Phase II operations. On the 15th of May, 2006, Mr. Burhans determined that IPC attempted to use the Range Master to remove grass in the designated heavy contaminated area during the previous week. As a result, the Range Master shifting mechanism was overloaded and the hydraulic pump was damaged and subsequently need to be repaired. Mr. Burhans was directed to observe the Phase I activities until the Range Master was repaired. The Phase I operations began on January 29, 2006 and were in progress at that time.

2.1 PHASE I OVERSIGHT - 15 MAY THRU 23 MAY 2006

During the time indicated, Daily Activity Reports and Daily Oversight reports were recorded on Phase I activities; these reports are included in Appendices A and B, respectively. The quantities of Munitions Debris (MD) and Munitions and Explosives of Concern (MEC) removed from each grid were recorded. Photographs of daily UXO related activities and site conditions were taken on a regular basis. Photographs of located MEC were taken as they were discovered and checked for markings and or identification features as required by the contract specifications. Photographs are included in Appendix C.

Mr. Burhans was not granted “essential personnel” status by the United States Army Corps of Engineers (USACE); therefore, daily reports were not able to include a recording of grid location and depth. Limited access to the intrusive area required daily reports to rely on IPC documentation for the grid location and depth data. This information was recorded on the Elkton Daily Reports and Oversight Reports each work day. Table 2-1 provides an inventory of MEC items recovered during the contracted period. A description and the historical significance of the recovered MEC items are provided in Table 2-2.

2.1.1 Phase I Observed Issues

2.1.1.1 Staffing and Level of Effort

Initially, during the intrusive work, the project was staffed with three teams of seven. Over the course of Phase I the number and size of the teams fluctuated and decreased to one team of one and the level of effort decreased proportionately.

2.1.1.2 Hot Rocks

Magnetometers are sensitive to many iron-bearing minerals and hot-rocks (magnetized rocks), which can cause the magnetometer to register false-positive readings. The Phase I area contained a large volume of hot rocks, which resulted in many false-positive readings. These false-positive readings impeded operations considerably as it required the teams to dig areas that did not contain MEC. Alternate methods that could have been employed include scraping or sifting with heavy equipment or utilizing a non-ferrous metal detector.

2.2 RETURN TO PHASE II OVERSIGHT - 23 MAY THRU 1 JUNE 2006

The Range Master was repaired and put back into operation on the 23rd of May, 2006. According to the scope of work (SOW) the Range Master was to be used to clear 15 acres to a depth of 12 inches. This was to be conducted by using the shaker and sifter table to segregate UXO, MEC, and MD items from the soils being sifted and collecting (dumping in a selected location) these items periodically from the Range Master's hopper.

The Range Master was not functioning as specified as early as the day of repair, 23 May, 2006, which is indicated on the Oversight Report for that day. The Range Master continued to show difficulty in operating in the loam and clay mix soil on the site. The Range Master attempted to run through the grid areas designated as L3-J3. As noted in Elkton Daily Reports dated 24 May and 25 May of 2006, the Range Master was not functioning to the required specifications and required UXO support for cleaning periodically in order to continue to operate. Charles Fitzsimmons of EPA suggested that Mr. Burhans conduct an evaluation of the Range Master's ability to perform the required tasks. The performance of the Range Master was documented in the Elkton Daily and Oversight reports (Appendix A and Appendix B).

The Range Master became over loaded with soils on 30 May 2006 and an O-ring in the hydraulic pump was needed to repair the Range Master. The Range Master was repaired on 31 May 2006 and continued to operate in the same area where the grass was removed; grid area L3-J3. A meeting was held between EPA, USACE, Tetra Tech, and IPC on the 1st of June 2006 to discuss the status of the Range Master site progress and concerns regarding the Range Master's performance. It was decided during the 1 June 2006 meeting that the Range Master should no longer be used because it was not meeting the specification requirements. The Range Master was cleaned on the 6th of June and removed from the site on June 7th, 2006.

2.3 PHASE II TAZ OPERATIONS - 6 JUNE THRU 8 JUNE 22, 2006

The TAZ arrived on site 1 June 2006. Operation of the TAZ began in the designated pit area on June 6th, 2006. The TAZ was equipped with a sifting bucket attachment, which clogged within the first few minutes of operation and required UXO support for cleaning.

The sifting bucket was removed and replaced with a standard bucket. Excavation of the pit area resumed on June 7th and continued on 8 June 2006. MD and MEC items were

found during excavation and recorded on the Elkton Daily Report and Oversight Report. Asbestos tiles were encountered in the pit area on the 8th of June 2006, and all excavation operations ceased until a confirmation of hazardous material could be made. Over 10,000 cubic yards of soil was excavated from Pit #1 and Pit #2. It was discovered that IPC was only contracted to excavate and sift 2,000 cubic yards of soil using the TAZ.

On the morning of 12 June 2006, Matt Kandefer, of Tetra Tech, arrived to collect samples from the pit area. There was a delay until it was determined that Tetra Tech and EPA personnel could go into the pit area and collect samples for testing.

2.4 RETURN TO PHASE I OVERSIGHT - 12 JUNE THRU 23 JUNE 2006

From 12 June through 22 June, 2006, Phase I oversight again continued. All comments as to production and progress, dig numbers, quantity of MPPHD/MD and MEC have been documented on Elkton Daily Reports (Appendix A) and Oversight Reports (Appendix B). Photographs of site conditions, intrusive work and QC/QA measures are included in Appendix C. Ordnance Technical Data Sheets of MEC items found on the site are included as Appendix D. Data sheets for the 81mm mortars that were found before the notice to proceed on the contracted oversight are also included.

Table 1 provides a summary of all MEC that was recovered during the oversight contracted period between 15 May and 22 June, 2006. A total of 751 MEC items were recovered from the site. The majority of MEC included 40mm tracer elements and slap flares, and were found between ground surface and a depth of 8 inches. As indicated on the Daily Elkton Reports and Oversight Reports, no markings or Country identifying features were discovered on any of the MEC recovered. The MEC items appeared to be standard U.S. items.

On 22 June, 2006, the results of the random sampling from the pits was supplied and it was determined that there was friable asbestos in the pits. A Standard Operating Procedure (SOP) for working in an Asbestos/MEC environment is being prepared and reviewed. TAZ operation will not continue until the finalization of that SOP.

2.4.1 Phase II Observed Issues

2.4.1.1 *Range Master*

The Range Master was not a proven piece of equipment in the intrusive mode of removal of MEC in the soil type at Elkton Farms. The Range Master was overloaded and damaged on the first day of operations during the clearing of top grass from the Phase II area. The Range Master was inoperable and in need of repair for over ten working days. After the Range Master was repaired it did not function to the required depth as stated in the Scope of Work. It was removed from the site based on a joint decision between EPA and USACE.

2.4.1.2 TAZ

The TAZ was brought to the site and used for excavation operations in the Phase II pit area. The sifting bucket attachment quickly clogged and needed to be replaced with a standard bucket. After the standard bucket was installed excavation operations resumed in the Phase II pit area. Asbestos was then encountered in the Phase II pit area during excavation operations. Additionally, it was determined that the TAZ excavation activities resulted in over 10,000 cubic yards of soil being excavated, which exceeded the 2,000 cubic yards required by the SOW. Excavation operations with the TAZ ceased until the issues with the asbestos and over excavated soil could be worked resolved between the subcontractors.

2.5 END OF OVERSIGHT CONTRACT

On 23 June, 2006 the contract for oversight of the Elkton Farm Firehole, MD was terminated by Charles Fitzsimmons EPA Region III via email to Matt Kandefer (Tetra Tech).

TABLE 2-1: RECOVERED MEC DURING CONTRACTED PERIOD - 15 MAY TO 23 JUNE 2006

Date	MEC Item	Location	Depth	Phase Area	Quantity
15 May 2006	40MM HE Unfuzed	High Density area	Surface	II	2
	40MM Tracer Element	High Density area	Surface	II	466
	Slap Flare Base	High Density area	Surface	II	10
	Slap Flare Base	Grid J5B	6 to 8 inch	I	2
16 May 2006	40MM Tracer Element	Grid J5B	6 to 8 inch	I	6
	Slap Flare Base	Grid J5B	6 to 8 inch	I	2
17 May 2006	40MM Tracer Element	Grid F6D	6 to 8 inch	I	19
	Booster Pellet	Grid F6D	6 to 8 inch	I	3
23 May 2006	40MM Tracer Element	Grid I5A, F6B	6 to 8 inch	I	55
	Slap Flare Base	Grid I5B	6 to 8 inch	I	2
24 May 2006	40MM Tracer Element	Grid I5A, E6B	6 to 8 inch	I	32
	40MM HE (Empty)	High Density area	Surface	II	1
	40MM Tracer Element	High Density area	Surface	II	11
30 May 2006	40MM Tracer Element	Grid I5A	6 to 8 inch	I	6
	Slap Flare Base	Grid I5A	6 to 8 inch	I	1
	40MM Tracer Element	High Density area	Surface	II	60
	Slap Flare Base	High Density area	Surface	II	1
	40MM HE Unfuzed	High Density area	Surface	II	1
31 May 2006	40MM Tracer Element	Grid F6B	6 to 8 inch	I	30
06 June 2006	M74 Incendiary Bomb (10 Lb Thermite)	PIT #2 area	1 to 4 foot	II	1
07 June 2006	40MM Tracer Element	Grid C2D	6 to 8 inch	I	40

TABLE 2-2: RECOVERED MEC EXPLANATION / HISTORICAL SIGNIFICANCE

MEC Item	Explanation / Historical Significance
40mm HE AA round	Designed/developed in Sweden by Bofors a Swedish manufacturer during the 1930's. It was adopted for American military use, by the Navy in 1938 and the Army in 1941. Production was initially small and most guns were delivered to the Navy, but by early 1943 the 40mm Bofors reached Army antiaircraft units in quantity.
40mm tracer element	A 40mm round with a small metal treaded element of pyrophosphoric and black powder mixture that is placed into the rear of the round. The tracer illuminates after being fired and leaves a trail depicting the rounds path. The gun operator uses the tracer make adjustment to the round's path to improve accuracy.
M69 Incendiary bomb	A bomb filled with jellied /gasoline-Napalm that was developed early in the second world war (circa 1942). It was used to burn cites. To improve accuracy the bombs were designed to be incorporated into an "aim-able cluster", a type of cluster bomb that contained 38 of the M-69 firebombs.
M74 Incendiary Bomb (10 lb Thermite)	(Napalm/Phosphorus) was used during WWII (circa 1942-1945).It was used for burning of Japanese and German cities during the War. The M74 was designed as a cluster with 14, 38, to 60 of the bombs in the cluster pack.
Signal Illumination (Slap Flare) Ground Cluster	A flare used by both the Army and Navy for the purpose of signaling. The slap flare originated in the late sixties and is still utilized at the present.
AA: Anti-Aircraft HE: High Explosive lb: pound mm: millimeter	

3 RECOMMENDATIONS

3.1 PHASE I AREA

Due to the high volume of “hot rocks” in the Phase I area causing false-positive readings impeding operations it is recommended that a new method of MEC identification and recovery be employed. Alternate methods that could be employed to improved project efficiency include scraping or sifting with heavy equipment or utilizing a non-ferrous metal detector.

3.2 PHASE II AREA

As requested by Charles Fitzsimmons of EPA, the following recommendation for the continuation of Phase II operations within the pit areas is provided based on the visual observations from May 15, 2006 to June 23, 2006. Due to the large quantity of soil and asbestos/MEC presence, it is suggested that a large scale sifting operation be utilized to open and clear the soils from the remaining pit areas. Heavy equipment should consist of, at a minimum:

- an armored excavator,
- two armored front end loaders, and
- two sifting operation hoppers equipped with screens, a sifting table, and conveyor lines for inspection and removal of MEC.

Additionally a remote protected observation station for UXO personnel to observe the operation should be utilized.

A new ESS (due to new equipment being introduced into the project) and Work Plan would be required, as well as specific SOPs for individual tasks such as sifting operations, asbestos removal, and MEC removal.

APPENDIX A: ELKTON FARM SITE DAILY UXO ACTIVITIES

DAILY UXO ACTIVITIES			
Site Name:	Elkton Farm	Date:	05/15/06
MEC- Items:	489	MD Items:	3
GRID:	J5B	High Density Area (Surface Clearance)	
Weather: 40-80 degrees partly cloudy, rain			
Activities and Remarks: Surface clearance Intrusive Operations			
Upcoming Activities for: 05/16/06 Range Master REPAIR Intrusive Operations			
Near Term Activities: Range Master Operations Intrusive Operations			
MD: 3			
MEC: 489			
Seeded Items Recovered: N/A			

DAILY UXO ACTIVITIES			
Site Name:	Elkton Farm	Date:	05/16/06
MEC- Items:	20	MD Items:	5
GRID:	F6D, J5B		
Weather: 40-80 degrees Partly cloudy with a chance of thunderstorms The ground is still holding water. Photos attached.			
Activities and Remarks: 5/18/06 Intrusive Operations: Grids G6A (Team 2) and J5B (Team 1) No comments indicated for Grid G6A in Daily Report by IPC.			
Upcoming Activities for: 05/19/06 Range Master REPAIR not completed. CAT arrived to check RM and found the Hydraulic pump needed replaced. Intrusive Operations to continue by teams.05/21/06			
Near Term Activities: Range Master Operations Intrusive Operations			
Date 5/18/06			
Grid Number	Type Munitions	Depth	Quantity
J5B	40mm Tracer element	6-8"	19
J5B	Slap flare base	6-8"	1
Total MEC Recovered			20
Munitions Debris			5 Lbs
MD: 5			
MEC: 20			
Seeded Items Recovered: N/A		Pounds of scrap: 10	

DAILY UXO ACTIVITIES																											
Site Name:	Elkton Farm	Date:	05/18/06																								
MEC- Items:	20	MD Items:	5																								
GRID:	F6D, J5B																										
<p>Weather:</p> <p>40-80 degrees Partly cloudy with a chance of thunderstorms</p> <p>The ground is still holding water. Photos attached.</p>																											
<p>Activities and Remarks: 5/18/06</p> <p>Intrusive Operations: Grids G6A (Team 2) and J5B (Team 1)</p> <p>No comments indicated for Grid G6A in Daily Report by IPC.</p>																											
<p>Upcoming Activities for: 05/19/06</p> <p>Range Master REPAIR not completed. CAT arrived to check RM and found the Hydraulic pump needed replaced.</p> <p>Intrusive Operations to continue by teams.05/21/06</p>																											
<p>Near Term Activities:</p> <p>Range Master Operations</p> <p>Intrusive Operations</p>																											
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Seeded Items Recovered: N/A		Pounds of scrap: 10																									

DAILY UXO ACTIVITIES																															
Site Name:	Elkton Farm	Date:	05/22/06																												
MEC- Items:	61	MD Items:	0																												
GRID:	F6C, I5B	F5A and F6A Completed.																													
Weather: 40-80 degrees Partly cloudy with a chance of thunderstorms The ground is dry.																															
Activities and Remarks: 5/22/06 Intrusive Operations: Grids F6C and I5B, Grid I5B team 1 and Team 2 in F6B. F5A, F6A, completed. USACE and IPC QC checked grids F5A and F6a.																															
Upcoming Activities for: 05/23/06 Range Master REPAIR not completed. ..Part to arrive 05/23/06. Intrusive Operations to continue by teams.05/23/06																															
Near Term Activities: Range Master Operations Intrusive Operations																															
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MD: 15																															
MEC: 61																															
Seeded Items Recovered: N/A		Pounds of scrap: 2																													

DAILY UXO ACTIVITIES

Site Name:	Elkton Farm	Date:	05/23/06																												
MEC- Items:	91	MD Items:	15																												
GRID:	15A F6B	15B, test run area for Range Master																													
Weather: 40-75 degrees Partly cloudy																															
<p>Activities and Remarks: 5/23/06</p> <p>Intrusive Operations</p> <p>Range Master repaired</p> <p>Meeting held today at 1415. In attendance were Charlie Fitzsimmons, Steve Burhans, Paul Greene, George Follett, Craig Maurer, and Mark on the phone.</p> <p><u>Discussed:</u></p> <ol style="list-style-type: none"> 1: Range Master Operations, Hours, IPC support, and work schedule. TBD tomorrow. 2. ROE- still within the six weeks. 3. Erosion- IPC will consider the best way to control erosion. 4. Out Reach – EPA is putting add in paper and Guards will be given instructions on how to deal with turn in items 																															
<p>Upcoming Activities for: 05/24/06</p> <p>Intrusive Operation</p> <p>Range Master Operations</p>																															
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MD: 15																															
MEC: 91																															
Seeded Items Recovered: N/A		Pounds of scrap: 7																													

DAILY UXO ACTIVITIES

Site Name:	Elkton Farm	Date:	05/24/06
MEC- Items:	44	MD Items:	10
GRID:	15A F6B	test run area for Range Master	
Weather: 40-75 degrees Sunny			
<p>Activities and Remarks: 5/24/06 Intrusive Operations Range Master Operations</p> <p>Phone conference held today at 1300. In attendance were Charlie Fitzsimmons, Matt Kandefer, Steve Burhans, Paul Greene, George Follett, Craig Maurer, and Mark Cox on the phone.</p> <p><u>Discussed:</u></p> <ol style="list-style-type: none">1: Range Master Operations, Hours, IPC support, and work schedule.2. Erosion- IPC will consider the best way to control erosion.3. IPC possible increase in Cost and Billing.			
Upcoming Activities for: 05/30/06 Intrusive Operation Range Master Operations			
Near Term Activities: Range Master Operations Intrusive Operations			
<p>Range Master is running 3-4 inches in depth. It seems to have difficulty at that depth due to soil consistency. The Range Master puts the shifted soil and the hopper material back in the path from whence it is processed. With the difficulty in processing 3-4 inches of soil, I suggest we closely look at it capabilities in the next few days.</p> <p>5 lengths of approximately 600 ft and 12 ft wide were processed at the 3-4 inch depth by the Range Master.</p>			

DAILY UXO ACTIVITIES			
Site Name:	Elkton Farm	Date:	05/24/06
MEC- Items:	44	MD Items:	10
GRID:	15A F6B	test run area for Range Master	
Date 5/24/06			
Grid Number	Type Munitions	Depth	Quantity
I5A, F6B	40mm Tracer element	6-8"	32
Range Master Shifter Bed	40mm (empty)	Shifter screen	1
Range Master Test Area	40mm Tracer element	0-3"	11
	Total MEC Recovered		44
	Munitions Debris		10 Lbs
MD: 10 lbs			
MEC: 44			
Seeded Items Recovered: N/A		Pounds of scrap: 5	

DAILY UXO ACTIVITIES

Site Name:	Elkton Farm	Date:	05/25/06
MEC- Items:	0	MD Items:	0
GRID:	L3- J3	test run area for Range Master	

Weather:
40-75 degrees Sunny

Activities and Remarks: 5/25/06

Remarks: The total digs for yesterday's activity 05/24/06 look awkward. In the IPC Daily it is reported 2704 digs. Only 33 MEC items recovered and 5 lbs of scrap and 10 lb of MD. An accountability of the digs without MEC or MD or scrap should be documented somehow so the figures do not look askew. (Attached is DAR 052406) Possible wrong number entered? Both crews were limited to digging as team 1 supported the Range Master and Team 2 was installing silt fencing. Normal reports show approximately 900 digs per day with both teams combined and for a full day.

Range Master Operations:

Range Master continues to work the de-nuded area. Approximate location is grids L3 thru J3. Soil clogging the receiver bed of the machine. Shut down at approximately 1500 hrs. To be cleaned out Tuesday. 5 Passes were completed to break up the soils. One pass was tried to collect MEC. Areas (piles) of hopper collection will be checked Tuesday.

Upcoming Activities for: 05/30/06

Intrusive Operation
Range Master Operations

Near Term Activities:

Range Master Operations
Intrusive Operations

Range Master is running 3-4 inches in depth. It seems to have difficulty at that depth due to soil consistency. The Range Master puts the shifted soil and the hopper material back in the path from whence it is processed. With the difficulty in processing 3-4 inches of soil, I suggest we closely look at it capabilities in the next few days.

5 lengths of approximately 600 ft and 12 ft wide were processed at the 3-4 inch depth by the Range Master.

1 length was processed with the hopper in place.

DAILY UXO ACTIVITIES			
Site Name:	Elkton Farm	Date:	05/25/06
MEC- Items:	0	MD Items:	0
GRID:	L3-J3	test run area for Range Master	
Date 5/24/06			
Grid Number	Type Munitions	Depth	Quantity
	Total MEC Recovered		
	Munitions Debris		
MD:			
MEC:			
Seeded Items Recovered: N/A		Pounds of scrap:	

DAILY UXO ACTIVITIES

Site Name:	Elkton Farm	Date:	05/30/06
MEC- Items:	69	MD Items:	6
GRID:	L3-J3	test run area for Range Master. GRID 15A Intrusive OPS	
Weather: 40-75 degrees Sunny			
<p>Activities and Remarks: 5/30/06</p> <p><u>Remarks:</u> Both crews were limited to digging as team 1 supported the Range Master and Team 2 was installing silt fencing. Previous IPC reports show approximately 900 to 1000 digs per day with both teams combined and for a full day. Both teams did dig to some extent today, yet, 1400 digs were indicated for the day. The number of MEC items increased (from 44 on 052406 to 66 today, there were 60 MEC items from the range master leaving only 6 from intrusive works) however; there is still no indication as to what was recovered from the other 1300 plus digs. Possibly what constitutes a dig is in question. Is it the anomaly and its removal or scraping the surface of the ground each stroke subsequent to the anomalies removal? The numbers do not make sense. 1400 digs and only 6 MEC items recovered in grid 15A??</p> <p>Range Master Operations</p> <p>The Range Master was cleaned out taking over 3 hours this morning. Only the bed of the elevator was clogged, the hopper and screen were clear. RM continues to work the de-nuded area. Approximate location is grids L3 thru J3. Three lanes 12 feet by 600 ft were worked with the hopper closed. Most of the soil is still clogging or backing up the receiver bed of the machine making movement with the RM slow. A slow pace is required to process the previously broken up soils. The Elevator bed clogged after two hours of operation and had to be cleared. The O rings in the hydraulic system started leaking and was temporarily repaired. The RM ran for another hour and a half and was shut down due to hydraulic leakage. Shut down was at approximately 1500 hrs. O rings are to arrive tomorrow 053106. A photo of the broken RM area is included as an attachment.</p>			
Upcoming Activities for: 05/31/06 Intrusive Operation Range Master Operations			
Near Term Activities: Range Master Operations Intrusive Operations			

DAILY UXO ACTIVITIES			
Site Name:	Elkton Farm	Date:	05/30/06
MEC- Items:	69	MD Items:	6
GRID:	L3-J3	test run area for Range Master. GRID 15A Intrusive OPS	
Date 5/30/06			
Grid Number	Type Munitions	Depth	Quantity
15A	40mm Tracer Element	6-8"	6
15A	Slap flare base	6-8"	1
15A	40mm HE unfuzed	6-8"	1
Range Master	Slap flare base	Pile	1
Range Master	40 mm Tracer Element	Pile	60
	Total MEC Recovered		60
	Munitions Debris		69
MD: 6			
MEC: 69			
Seeded Items Recovered: N/A		Pounds of scrap: 3	

DAILY UXO ACTIVITIES

Site Name:	Elkton Farm	Date:	05/31/06																				
MEC- Items:	30	MD Items:	0																				
GRID:	L3-J3	test run area for Range Master. GRID 15A, F6B Intrusive OPS																					
Weather: 40-95 degrees Sunny																							
Activities and Remarks: 5/31/06 Remarks: Charlie Fitzsimmons was escorted into the area and observed the operations of the Range Master by IPC Safety. I escorted Charlie Fitzsimmons to an area outside the 200 ft MSD to observe the Grid operations. While observing the Teams from over 250 feet away, production and methods of operations in the grid was discussed. I further escorted Charlie Fitzsimmons to see the Grid when the team took a break and ceased intrusive operations after getting permission from the SUXOS. After visiting the grid we looked at the Range Master after getting permission from the IPC Safety. (In the process of clearing-work stoppage while we were there). The Number of digs reported today was 1,811 with 1 lb of scrap and 30 MEC items from Grid F6B. ??? Range Master Operations The Range Master was repaired this morning. RM continues to work the de-nuded area. Approximate location is grids L3 thru J3. Two and a half lanes 12 feet by 600 ft were worked with the hopper open. The Elevator bed clogged after one and a half hours of operation and had to be cleared. . A photo of the repaired RM area is included as an attachment.																							
Upcoming Activities for: 06/01/06 Intrusive Operation Range Master Operations																							
Near Term Activities: Range Master Operations Intrusive Operations																							
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DAILY UXO ACTIVITIES																															
Site Name:	Elkton Farm	Date:	06/01/06																												
MEC- Items:	18	MD Items:	18																												
GRID:	L3- J3	test run area for Range Master. GRID 15A, F6B Intrusive OPS																													
Weather: 40-95 degrees Sunny																															
<p>Activities and Remarks: 6/01/06</p> <p><u>Remarks:</u> The teams continued to work in the same manner as has been observed and continues to stop periodically to service the Range Master. The Number of digs reported today was 1,750 with 9 lb of scrap, 8 lbs of MD and 18MEC items from Grid F6B/ I5A. ???</p> <p>Meeting held today to decide Status of the Range Master. Meeting minutes will be forth coming from Matt Kanderfer.</p> <p>Range Master Operations RM continues to work the de-nuded area. Approximate location is grids L3 thru J3. I was not in the area due to a scheduled meeting to observe progress of the Range Master.</p>																															
<p>Upcoming Activities for: 06/02/06</p> <p>Intrusive Operation</p> <p>Range Master Clean-up and De-mobilization</p>																															
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Weather: 40-95 degrees partly cloudy, possible thunder storms																															
Activities and Remarks: 6/02/06 <u>Remarks:</u> The teams continued to work in the same manner as has been observed. The number of digs reported today was 1750 with 18 MEC items. Possible hot rock was not available due to quick shut down due to lightning, will check it Monday. Range Master is broken down again due to Hydraulic leak. Part being repaired. Cleaning of the Range Master will be Monday.06/05/06. Range Master Operations Discontinued. TAZ Operations: To begin Monday 06/05/06.																															
Upcoming Activities for: 06/05/06 Intrusive Operation Range Master Clean-up and De-mobilization TAZ Operations																															
Near Term Activities: TAZ Operations Intrusive Operations I am attaching Photos of the TAZ for your information./sent separate.																															
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Seeded Items Recovered: N/A		Pounds of scrap: 9																													

DAILY UXO ACTIVITIES

Site Name:	Elkton Farm	Date:	06/05/06
MEC- Items:	0	MD Items:	20
GRID:	B3C	Intrusive OPS, TAZ OPS, Range Master Clean Up	

Weather:
60-75 degrees partly cloudy, possible thunder storms

Activities and Remarks: 6/05/06

Remarks: The teams continued to work in the same manner as has been observed. The number of digs reported today was 1,188. One six man team that was used to support Range Master clean up and Taz support in sweeping the surface of the soil removed by the Taz. A check of the buckets in B3c at the end of the day (at 1600 hrs while the team swept the soil from the TAZ operation) found there to be roughly 300 hot rocks. The 20 lbs of MD was picked up at the TAZ operation area.

Cleaning of the Range Master was conducted today.

A total of 12 UXO techs were on site today. Six on the intrusive team, two on TAZ support, 1- safety/Qc. 1 –SUXSO. Stan Adams relinquished SUXOS position and was assisting in equipment turn-in with one other tech.(2) One Tech had the day off/sick. Two were De-Mobilized. (SEE 06/05/06 DAR) attached.

Range Master Operations
Discontinued.-cleaning only.

TAZ Operations:
TAZ started in Grid L2; a 30 foot by 70 foot area was opened to approximately 6 feet in depth.
A seam of rust, slag, trash (bottles, nails, cans, pipe, asbestos) and MD (40mm cartridge case w/out primer, 40mm base of casing) at about the three foot level in the pit. Below six feet seems less contaminated. To be checked 06/06/06.

Upcoming Activities for: 06/06/06
Intrusive Operation
Range Master Clean-up and De-mobilization
TAZ Operations

Near Term Activities:
TAZ Operations
Intrusive Operations

I am attaching Photos of Pit.

DAILY UXO ACTIVITIES			
Site Name:	Elkton Farm	Date:	06/05/06
MEC- Items:	0	MD Items:	20
GRID:	B3C	Intrusive OPS, TAZ OPS, Range Master Clean Up	
Date 06/05/06			
Grid Number	Type Munitions	Depth	Quantity
	Total MEC Recovered		0
	Munitions Debris		20
MD: 20			
MEC: 0			
Seeded Items Recovered: N/A		Pounds of scrap: 9	

DAILY UXO ACTIVITIES

Site Name:	Elkton Farm	Date:	06/06/06
MEC- Items:	0	MD Items:	20
GRID:	B3C	Intrusive OPS, TAZ OPS, Range Master Clean Up	
Weather: 60-75 degrees partly cloudy, possible thunder storms			
<p>Activities and Remarks: 6/06/06</p> <p><u>Remarks:</u> The teams continued to work in the same manner as has been observed. The number of digs reported today was 895. Zero MEC, and 1 lb scrap, 20lb of MD.</p> <p>A total of 13 UXO techs were on site today. Six on the intrusive team, two on Taz support, 1- safety/Qc. 1 –SUXSO Two were assisting in Range Master support while cleaning. .Stan Adams is serving as PM on site for IPC.</p> <p>Asbestos is a concern and the CEHND from IPC will assess the dig tomorrow. The SAFETY ISSUE I raised with the USACE representative on schonstedting the area before putting stakes in the ground around the pits was obviously passed to IPC for they did check the area with schonstedts today before putting stakes in around pit 2 area.</p> <p>Range Master Operations Discontinued.-cleaning only.</p> <p>TAZ Operations: Taz continued in Grid L2; a 40 foot by 85 foot area was opened to approximately 8 feet in depth. A seam of rust, slag, trash (bottles, nails, cans, pipe, asbestos) and MD/MEC (75mm cartridge case, and 8lb thermite) at about the three-four foot level in the pit. Below six feet seems less contaminated.</p>			
<p>Upcoming Activities for: 06/07/06</p> <p>Intrusive Operation</p> <p>TAZ Operations</p>			
<p>Near Term Activities:</p> <p>TAZ Operations</p> <p>Intrusive Operations</p> <p>I am attaching Photos of the Pits.</p>			

DAILY UXO ACTIVITIES			
Site Name:	Elkton Farm	Date:	06/06/06
MEC- Items:	0	MD Items:	20
GRID:	B3C	Intrusive OPS, TAZ OPS, Range Master Clean Up	
Date 06/06/06			
Grid Number	Type Munitions	Depth	Quantity
TAZ pit2	10lb thermite	3-4'	1
	Total MEC Recovered		1
	Munitions Debris		20
MD: 20			
MEC: 1			
Seeded Items Recovered: N/A		Pounds of scrap: 1	

DAILY UXO ACTIVITIES

Site Name:	Elkton Farm	Date:	06/07/06
MEC- Items:	0	MD Items:	0
GRID:	B3C	Intrusive OPS, TAZ OPS	

Weather:
60-75 degrees partly cloudy, possible rain

Activities and Remarks: 6/07/06

Remarks: The teams continued to work in the same manner as has been observed. The number of digs reported today was again 895. Zero MEC, and 1 lb scrap, no MD.

A total of 13 UXO techs were on site today. Seven on the intrusive team, Three cutting grass, 1- safety/Qc. 1 –SUXSO 1- PM Two IPC visitors were on site. (Leo Carden, Nancy McCellan).

Asbestos is a concern and the CIH from IPC will conduct a class in the morning for IPC personnel. I will attend if allowed.

Range Master Operations
Departed.

TAZ Operations:

Taz continued in Grid L2; a 40 foot by 155 foot area was opened to approximately 8 feet in depth.

A seam of rust, slag, trash (bottles, nails, cans, pipe, asbestos) and MD (75mm cartridge case, 40mm AA casing at about the three-four foot level in the pit. Below six feet seems less contaminated.

ADDITIONAL REMARK: I have to ask permission to go down range and am being told to wait until all activity has ceased, other than intrusive activity. (Sampling, Surface sweep)

Upcoming Activities for: 06/08/06

Intrusive Operation

TAZ Operations

Asbestos training for IPC personnel

Near Term Activities:

TAZ Operations

Intrusive Operations

I am attaching Photos of the Pits.

DAILY UXO ACTIVITIES			
Site Name:	Elkton Farm	Date:	06/07/06
MEC- Items:	0	MD Items:	0
GRID:	B3C	Intrusive OPS, TAZ OPS	
Date 06/07/06			
Grid Number	Type Munitions	Depth	Quantity
	Total MEC Recovered		0
	Munitions Debris		0
MD: 0			
MEC: 0			
Seeded Items Recovered: N/A		Pounds of scrap: 1	

DAILY UXO ACTIVITIES

Site Name:	Elkton Farm	Date:	06/08/06
MEC- Items:	0	MD Items:	0
GRID:	B3C	Intrusive OPS, TAZ OPS	

Weather:

60-75 degrees partly cloudy, possible rain

Activities and Remarks: 6/08/06

Remarks: The teams continued to work in the same manner as has been observed. The number of digs reported yesterday was 1588 (corrected document buy IPC), 1 MEC, and 1 lb scrap, no MD. Today 2,586 digs with only 4 UXO techs in the grid working and a late start of 10 am. Also, there was 0 MEC and 1lb of scrap. ??? Two of the 4 Other techs on site were used to cut grass and brush until they left and the remaining 2 moved to escort the TAZ for the afternoon. N

Less Manpower, less time, and rock sorting on the grid and an increased amount of dig numbers. I don't understand. This is the last time I document this obvious dig ratio to workers and hours of operation number discrepancy unless I am told to continue.

A total of 12 UXO techs were on site today. Five on the intrusive team, Two on TAZ escort, 1- safety/Qc. 1 – SUXSO 1- PM Two IPC visitors were on site. (Leo Carden, Nancy McCellan). 2 UXO techs were on site part of the day and left at noon.

Asbestos is a concern and the CIH from IPC did conduct a class in the morning for IPC personnel. I was not included. I asked the USACE representative what was the status. He told me he didn't know. Teams arrived on site at 0945

Site operations:

Questions: What is the plan of operations regarding the Pits?

1. Are the 4 contracted pit areas going to be opened for investigation? 100 x100 x 8 feet deep. Is this enough to cover what appears to be a larger area on the GEO Map?
2. What is the status for the dirt piles? Can they be pushed back in the holes or do they have to be worked right away? The TAZ bucket is not sufficient to do the shifting. Another method is required. An ESS will have to be submitted for new procedures and equipment.

It will take weeks to get new ESS approved and a new work plan. Is it possible to shut down once pits are opened and investigated and dirt returned to pit?

3. IPC has declared the pit areas as a contaminated area and has placed restrictions on who can go into the area. To be effective 12 June.

TAZ Operations:

Taz continued in Grid L2; approximately a 40 foot by 255 foot area was opened to approximately 8 feet in depth. A seam of rust, slag, trash (bottles, nails, cans, pipe, and asbestos) and MD left lying on the pile as per direction of the CIH. Below six feet seems less contaminated.

Today's meeting information:

The IPC SUXOS opened the meeting with remarks that he didn't appreciate the forced reduction in manpower. They were upset that they weren't allowed to turn-in the USACE equipment as they had planned. He further stated that he was upset with the fact that there is third party Over Site on the project and now that they had to collect rock this would impact on the production rate and slow things down. Alex intervened and stated that the USACE and EPA decided to keep Equipment on site and that the hot rock removal was for future purposes in case another party would have to work the area it should be clean not contaminated with hot rock. Also that 3rd party over sight was necessary for this project.

The next subject was TAZ support. The SUXOS said he wanted two UXO techs full time supporting the TAZ. I

DAILY UXO ACTIVITIES

Site Name:	Elkton Farm	Date:	06/08/06
MEC- Items:	0	MD Items:	0
GRID:	B3C	Intrusive OPS, TAZ OPS	

addressed this with the USACE representative (Rick Whitten) and he confirmed this issue was decided last week and again on Tuesday that the support would come from the dig team when requested from the TAZ. The SUXOS stated he felt it was a Safety problem and would put the Techs with the TAZ.(for traffic control) Alex stated he felt that an additional Security guard for monitoring traffic is more to the need. IPC placed two UXO Techs on the road for the remainder of the afternoon for TAZ support.

Leo Carden interjected and said that he has only a certain pot of allocated monies for security. If possible put his entire budget into a common fund to let him apply it as required.

This issue was referred to next Tuesdays meeting.

The IPC CIH (Nancy McClellan) wanted to enact level C for the TAZ as of NOON today.

Alex questioned this mode of PPE for frangible Asbestos. Asked CIH to send the OSHA regulation she was quoting. Also USACE representative said we could start the level C come Monday instead of implementing it today for we had scheduled visitors to see the TAZ area.

IPC CIH conceded to the request. The issue of TYVEK and respirator was revisited as to the need after all digging was done, while visiting the area after intrusive works. IPC was insistent on the requirement even with no intrusive or dirt moving going on.

IPC CIH stated that TETRA TECH had not notified her of either date that air samples were taken and wanted the results. She also stated he was unresponsive in getting soil samples.

I ended the meeting by asking the USAEC if In the Daily Safety brief there could be included the Daily operations- as to where the UXO team was operating and the TAZ operation details as to Contamination reduction and protection requirements. Also what is to occur short term and what the long term out look is? Leo Carden responded by saying he sees no problem with that.

Meeting ended.

After the Meeting Bill Abraczinskz showed up and was escorted down range to evaluate the pit area for construction debris recovery. He said he would be in touch with Charlie Fitzsimmons with his findings. Several other EPA visitors' windshield toured the area.

I waited until the end of the day and the TAZ shut down and requested to go take photos of the pit area.

No MEC was recovered to put in the storage bunkers today.

Upcoming Activities for: 06/12/06

Intrusive Operation

TAZ Operations

Asbestos training for IPC personnel

Near Term Activities:

TAZ Operations in contaminated ops condition

Intrusive Operations

I am attaching Photos of the Pits.

DAILY UXO ACTIVITIES			
Site Name:	Elkton Farm	Date:	06/08/06
MEC- Items:	0	MD Items:	0
GRID:	B3C	Intrusive OPS, TAZ OPS	
Date 06/08/06			
Grid Number	Type Munitions	Depth	Quantity
	Total MEC Recovered		0
	Munitions Debris		0
MD: 0			
MEC: 0			
Seeded Items Recovered: N/A		Pounds of scrap: 1	

DAILY UXO ACTIVITIES

Site Name:	Elkton Farm	Date:	06/12/06
MEC- Items:	0	MD Items:	0
GRID:	B3D	Intrusive OPS	

Weather:
60-75 degrees partly cloudy, light rain

Activities and Remarks: 6/12/06

Remarks: No data DAR from IPC as of 11:50 PM.

A total of 10 UXO techs were on site today. Seven on the intrusive team, 1- safety/Qc. 1 – SUXSO 1- PM.

Matt Kandefer and assistant (Tetra Tech) arrived for morning briefing. They were told they could not do the sampling for there was no IPC support available due to the new PPE level C requirement.(IPC did not have the PPE) Tetra tech had the required level C PPE for their personnel. Charlie Fitzsimmons arrived at 1030 AM and allowed me to accompany Tetra Tech to get Samples. No support from IPC.

Some sort of Work Plan to cover the New operation should be Written. The Taz is not sorting/clearing any MEC/MPPEH or MD from the soils. The use of a standard bucket does not meet requirement to sort the soils as it excavates as per the work Plan.

The TAZ is limited to its ability to function as was the Range Master. The soil type here are not conducive to it's operating abilities in shifting the soil.

The bucket for the TAZ is sitting in the Compound area and has mud from the pit area on it. If the Pit area is contaminated, is not this bucket as well? It should be either removed to the area of contamination or cleaned appropriately. It was removed in the late afternoon back to the pit site.

Site operations:
1 Dig team in B3D

Today the Taz is non operational due to the lack of level C PPE by IPC.

IPC has declared the pit areas as a contaminated area and has placed restrictions on who can go into the area. A 50 foot perimeter has been established. A tent was erected just outside the 50 foot area as part of the Contamination Reduction Area.

Upcoming Activities for: 06/13/06

Intrusive Operation
TAZ Operations

DAILY UXO ACTIVITIES			
Site Name:	Elkton Farm	Date:	06/12/06
MEC- Items:	0	MD Items:	0
GRID:	B3D	Intrusive OPS	
Near Term Activities: TAZ Operations in contaminated ops condition Intrusive Operations I am attaching Photos of the Pits.			
Date 06/12/06			
Grid Number	Type Munitions	Depth	Quantity
	Total MEC Recovered		0
	Munitions Debris		0
MD: 0			
MEC: 0			
Seeded Items Recovered: N/A		Pounds of scrap: 0	

DAILY UXO ACTIVITIES

Site Name:	Elkton Farm	Date:	06/13/06
MEC- Items:	0	MD Items:	0
GRID:	B3D	Intrusive OPS	
Weather: 60-75 degrees partly cloudy			
<p>Activities and Remarks: 6/13/06 <u>Remarks:</u> No data DAR from IPC for 12th or 13th of June. A total of 8 UXO techs were on site today. Five on the intrusive team, 1- safety/Qc. 1 – SUXSO 1- PM. The exclusion zone fencing was erected today, 60 feet out from the pit area. All but a 200 foot gap is completed.</p> <p>Site operations: 1 Dig team in B3D?</p> <p>Today the Taz is non operational due to SOP and work discussion.</p> <p>A meeting of the EPA and USACE and subcontractors was held today at Edgewood USACE office. Meeting Minutes will be supplied by IPC and Kevin Heym .</p>			
Upcoming Activities for: 06/14/06 Intrusive Operation TAZ Operations			
Near Term Activities: TAZ Operations in contaminated ops condition Intrusive Operations I am attaching Photos of the Pits.			
Date 06/13/06			
Grid Number	Type Munitions	Depth	Quantity
	Total MEC Recovered		0
	Munitions Debris		0
MD: 0			
MEC: 0			
Seeded Items Recovered: N/A		Pounds of scrap: 0	

DAILY UXO ACTIVITIES

Site Name:	Elkton Farm	Date:	06/14/06
MEC- Items:	0	MD Items:	0
GRID:	B3D	Intrusive OPS	
Weather: 60-75 degrees partly cloudy			
<p>Activities and Remarks: 6/14/06 <u>Remarks:</u> No data DAR from IPC for 12th or 13th of June or 14th . A total of 7 UXO techs were on site today. four on the intrusive team, 1- safety/Qc. 1 – SUXSO 1- PM. 1 Timberline operator.</p> <p>One Tech left early for a doctor appointment, the PM left site to home office.</p> <p>Site operations: 1 Dig team in B3D? Two techs working intrusive in the grid one supervisor.</p> <p>Today the Taz is non operational due to SOP and work discussion. Timberline operator left and will return Monday the 19th of June.</p>			
<p>Upcoming Activities for: 06/15/06 Intrusive Operation Three member of dig team TAZ Operations Delayed</p>			
<p>Near Term Activities: TAZ Operations in contaminated ops condition Intrusive Operations</p> <p>I am attaching Photos of the Pits.</p>			
Date 06/14/06			
Grid Number	Type Munitions	Depth	Quantity
	Total MEC Recovered		0
	Munitions Debris		0
MD: 0			
MEC: 0			
Seeded Items Recovered: N/A		Pounds of scrap: 0	

DAILY UXO ACTIVITIES

Site Name:	Elkton Farm	Date:	06/15/06
MEC- Items:	0	MD Items:	0
GRID:	C2D	Intrusive OPS	
Weather: 60-75 degrees partly cloudy			
Activities and Remarks: 6/15/06 Remarks: DAR fro IPC re-continued. A total of 5 UXO techs were on site today. Three on the intrusive team, 1- safety/Qc. 1 – SUXSO. QC and USACE representative cleared one grid. Site operations: 1 Dig team in B3A. Two techs working intrusive in the grid one supervisor. Today the Taz is non operational due to SOP and work discussion.			
Upcoming Activities for: 06/19/06 Intrusive Operation Three member of dig team TAZ Operations Delayed			
Near Term Activities: TAZ Operations in contaminated ops condition Intrusive Operations			
Date 06/15/06			
Grid Number	Type Munitions	Depth	Quantity
	Total MEC Recovered		0
	Munitions Debris		0
MD: 0			
MEC: 0			
Seeded Items Recovered: N/A		Pounds of scrap: 0	

DAILY UXO ACTIVITIES			
Site Name:	Elkton Farm	Date:	06/19/06
MEC- Items:	0	MD Items:	0
GRID:	D2D	Intrusive OPS	
Weather: 70-90 degrees partly cloudy, possible thunderstorms			
Activities and Remarks: 6/19/06 Remarks: A total of 6 UXO techs were on site today. Four on the intrusive team, 1-safety/Qc. 1 –SUXSO. Site operations: 1 Dig team in D2D. Three techs working intrusive in the grid one supervisor. Today the TAZ is non operational due to SOP and work discussion.			
Upcoming Activities for: 06/20/06 Intrusive Operation Continue Phase 1 TAZ Operations Delayed			
Near Term Activities: TAZ Operations in contaminated ops condition Intrusive Operations			
Date 06/19/06			
Grid Number	Type Munitions	Depth	Quantity
	Total MEC Recovered		0
	Munitions Debris		0
MD: 0			
MEC: 0			
Seeded Items Recovered: N/A		Pounds of scrap: 0	

DAILY UXO ACTIVITIES

Site Name:	Elkton Farm	Date:	06/20/06
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MEC- Items:	0	MD Items:	0
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GRID:	D2D	Intrusive OPS
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Weather:
70-90 degrees partly cloudy, possible thunderstorms

Activities and Remarks: 6/20/06

Remarks: A total of 7 UXO techs were on site today. Five on the intrusive team, 1-safety/Qc. 1 –SUXSO. At 8:15 AM 2 techs departed the site(Quit) and about 10AM a third tech departed due to medication and heat combination.

Team leader has an appointment 06-21-06, and one of the remaining techs has a doctor appointment. Shortage of personnel causes no work on site 06-21-06.

Visitors on site; ERM, Leonard G Rafalko, EPA Ann Breslin.

Site operations:
1 Dig team in D2D. One tech working intrusive in the grid one supervisor.

Today the Taz is non operational due to SOP and work discussion.

Upcoming Activities for: 06/21/06
Intrusive Operation – No operations
TAZ Operations Delayed

Near Term Activities:
TAZ Operations in contaminated ops condition
Intrusive Operations

Date 06/20/06

Grid Number	Type Munitions	Depth	Quantity
	Total MEC Recovered		0
	Munitions Debris		0

MD: 0

MEC: 0

Seeded Items Recovered: N/A	Pounds of scrap: 0
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DAILY UXO ACTIVITIES

Site Name:	Elkton Farm	Date:	06/22/06
MEC- Items:	1	MD Items:	0
GRID:	D2C	Intrusive OPS	
Weather: 70-90 degrees partly cloudy, possible thunderstorms			
Activities and Remarks: 6/22/06 Remarks: A total of 4 UXO techs were on site today. 2 on the intrusive team, 1- safety/Qc. 1 –SUXSO Site operations: 1 Dig team in B3C. One tech working intrusive in the grid one supervisor. Today the Taz is non operational due to SOP and work discussion.			
Upcoming Activities for: 06/26/06 Intrusive Operation TAZ Operations Delayed			
Near Term Activities: TAZ Operations in contaminated ops condition Intrusive Operations			
Date 06/22/06			
Grid Number	Type Munitions	Depth	Quantity
D2C			1
	Total MEC Recovered		1
	Munitions Debris		0
MD: 0			
MEC: 1			
Seeded Items Recovered: N/A		Pounds of scrap: 1	

APPENDIX B: OVERSIGHT REPORTS

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE
		5/15/2006		
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Surface Sweep, Intrusive Operations Location: Elkton Farm site: High density Area, J5B Personnel present: 16 IPC personnel, 3 Timberline, 1USACE, 1TETRA TECH, 1EPA representative.	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	SCHOENSTEDT CHECK OUT
	Results Are Acceptable	Y	Team two	SCHOENSTEDT CHECK OUT
	Work Is In Compliance With The SSHP/WP	Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP				
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: Surface Sweep conducted in high density area previously covered by Range Master. Range Master is down due to shaker, hydraulic malfunction. Timber Line states a new part should arrive tomorrow, and they will repair the problem. No marked MEC or MD items were recovered thru Range Master operations or intrusive operations.				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
DATE 5/15/2006				

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE
				5/16/2006
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Intrusive Operations, Grid F6D-team2, J5B-Team1 Location: Elkton Farm site: High density Area, J5B Personnel present: 16 IPC personnel, 2 Timberline, 2 USACE, 1EPA representative.	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	SCHOENSTEDT CHECK OUT
	Results Are Acceptable	Y	Team two	SCHOENSTEDT CHECK OUT
	Work Is In Compliance With The SSHP/WP	Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP	Range Master Parts did not fix the problem. CAT was notified. Workers from Cat arrived and decided that the hydraulic pump unit needed to be replaced. The part is on order.			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: Surface sweep was conducted yesterday in the High Density area previously covered by the Range master. Surface sweep was conducted to recover items on the surface while they were exposed. Range Master is still down due to shaker/part malfunction. Timberline states that a new part for repairs will arrive tomorrow and they will repair the problem. All MEC items recovered thru intrusive operations had no obvious markings for identification.				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
				DATE 5/16/2006

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE 5/18/2006
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Intrusive Operations, Grid F6D-team2, J5B-Team1 Location: Elkton Farm site: J5B and F6D Personnel present: 16 IPC personnel, 2 Timberline, 2 USACE, 1EPA representative.	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	SCHOENSTEDT CHECK OUT
	Results Are Acceptable	Y	Team two	SCHOENSTEDT CHECK OUT
	Work Is In Compliance With The SSHP/WP	Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP	Range Master Parts did not fix the problem. CAT was notified. Workers from Cat arrived and decided that the hydraulic pump unit needed to be replaced. The part is on order.			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: Range Master is still down due to hydrolic pump issues. Timberline states that a new part for repairs will arrive tomorrow and they will repair the problem. All MEC items recovered thru intrusive operations had no obvious markings for identification. Meeting today was held with IPC SUXOS, QC, USACE Safety specialist, USACE PM, EPA Representative and Malcolm Pirnie EPA representative. Discussed was the current Status and usage of the RangeMaster and TAZ. The schedule of work for IPC and the RangeMaster schedule. A copy of the ESS and SOP for clearing/cleaning the RangeMaster was requested of USACE and IPC for EPA and EPA Oversight representative.				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
				DATE 5/18/2006

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE: 5/22/2006
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Intrusive Operations, Grid F6C-team2, 15B-Team1 Location: Elkton Farm site: 15B and F6C Personnel present: 14 IPC personnel, 2 Timberline, 2 USACE, 1EPA representative.	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
	INITIAL	Preliminary Work Was Done Correctly		
Workmanship Is Satisfactory		Y	Team one	SCHOENSTEDT CHECK OUT
Results Are Acceptable		Y	Team two	SCHOENSTEDT CHECK OUT
Work Is In Compliance With The SSHP/WP		Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP	Range Master Parts did not arrive. Expected Tuesday. .			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: Range Master is still down due to hydrolic pump issues. Timberline states that a new part for repairs will arrive tomorrow and they will repair the problem. All MEC items recovered thru intrusive operations had no obvious markings for identification. A copy of the ESS phase II was supplied by IPC,SOP for clearing/cleaning the RangeMaster is being reviewed by USACE on site.				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
				DATE 5/22/2006

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE
				5/23/2006
PHASE	Y-YES; N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Intrusive Operations, Team 2--Grid 15A and 15B, Team1--F6B Location: Elkton Farm site; F6B, 15A, 15B Personnel present: 15 IPC personnel, 2 Timberline, 3 USACE, 1EPA representative.	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	SCHOENSTEDT CHECK OUT
	Results Are Acceptable	Y	Team two	SCHOENSTEDT CHECK OUT
	Work Is In Compliance With The SSHP/WP	Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP	Range Master is operational. The Range Master was test run in a 600 ft. area to a depth of 3 inches. The screen on the shaker filled quickly and the Range Master had to be shut down to allow the screen to clear. From my observations, the optimal mode would be Remote. The operator would have immediate control of the Range Master and would be able to gauge the speed of operation by viewing the shaker.			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: Operating the Range Master by cab operator doesn't allow the Operator to see the shaker when it fills or clogs. Unless a video screen of the shaker operation is mounted in the cab for the cab operator to view, it takes too long to signal from the remote location for the cab operator to be notified of the problem. Also, I recommended that the scalped portion of the range be worked first due to the fact that a significant amount of area is cleared. Furthermore, that working the grassy area could possibly clog and break the machine and put the project back in the position from which was just recovered. Another words; work in the area cleared and get some progress versus working in a grassy area and possibly having a repeat of the previous problem. MEC items recovered today thru intrusive operations had no obvious markings for identification.				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
				DATE 5/23/2006

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE
				5/24/2006
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Intrusive Operations, Team 2--Grid 15A and 15B, Team1--F6B Location: Elkton Farm site; F6B, 15A, 15B Personnel present: 15 IPC personnel, 2 Timberline, 1 USACE, 1EPA representative.	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	SCHOENSTEDT CHECK OUT
	Results Are Acceptable	Y	Team two	SCHOENSTEDT CHECK OUT
	Work Is In Compliance With The SSHP/WP	Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP	Range Master is operational and breaking through soil at the 3-4 inch depth. Air monitoring was conducted by Tetra Tech.			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: UXO Teams were split on tasks today. Team one supported Range Master operations and team two worked on erosion control. MEC items recovered today thru intrusive operations had no obvious markings for identification.				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
				DATE 5/24/2006

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE
		5/25/2006		
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Range Master Operations Location: Elkton Farm site: L3-J3 Personnel present: 3 personnel, 2 Timberline, 1 USACE, 1EPA representative.	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	SCHOENSTEDT CHECK OUT
	Results Are Acceptable	Y	Team two	SCHOENSTEDT CHECK OUT
	Work Is In Compliance With The SSHP/WP	Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP	Range Master is operational and breaking through soil at the 3-4 inch depth. One trial run conducted with hopper shut. Soil build up in Range Master caused a shut down. At 1500 hours.			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: MEC items recovered today thru Range Master operations had no obvious markings for identification.				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
				DATE 5/25/2006

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE 5/30/2006
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Range Master Operations, Silt fencing, Intrusive Operations Location: Elkton Farm site: L3-J3, Range Master, Intrusive 15A Personnel present: 15 personnel, 2 Timberline, 2 USACE, 1EPA representative.	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	Teams split time between intrusive works and supporting the Range Master. Team 1 spent 3 hours cleaning the elevator area of the Range Master in the morning. Team 2 erected silt fencing for over 3 hours in the morning and cleaned the Range Master in the afternoon when it bogged down, then again when it broke down.
	Results Are Acceptable	Y	Team two	
	Work Is In Compliance With The SSHP/WP	Y	USACE	
FOLLOW-UP	Range Master is operational and breaking through soil at the 3-6 inch depth. The hopper has been closed, and it is in capture mode. The operation seems to run slowly and not to the depth (18") as was previously thought it could. The RM has to recycle the same soils over and over and is not making much headway. It has only covered 4 lanes with the hopper closed.			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: The Machine seems to be moving possible MEC and MD but in no way is it as complete as was wished. It does pile items mixed with soil in up to three feet high piles at about 50 foot intervals. However; the UXO teams will still have to sort thru these piles as well as sweep the area the RM has covered. No MEC items recovered today thru Range Master operations or intrusive operations.				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
				DATE 5/30/2006

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE
				5/31/2006
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Range Master Operations, Silt fencing, Intrusive Operations Location: Elkton Farm site: L3-J3, Range Master, Intrusive 15A Personnel present: 13 personnel, 2 Timberline, 1 USACE, 1EPA representative.	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	SCHOENSTEDT CHECK OUT
	Results Are Acceptable	Y	Team two	SCHOENSTEDT CHECK OUT
	Work Is In Compliance With The SSHP/WP	Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP	The Range Master was repaired shortly after noon. It was operational at 1400 and ran in the open position until 1530. It covered approximately 1500 feet and the elevator plate became packed and required cleaning.			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: The Range Master was operational for roughly 90 minutes after repair and required cleaning. No marked Mec or MD items were recovered thru Range Master operations or intrusive operations. Charlie Fitzsimmons was on site today and I escorted him to observe the operations out side the MSD.				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
				DATE 5/31/2006

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE
				6/1/2006
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Range Master Operations, Intrusive Operations Location: Elkton Farm site: L3-J3, Range Master, Intrusive 15D Personnel present: 15 personnel, 2 Timberline, 3 USACE, 2 EPA representatives, 1 Tetra Tech representative, IPC--Leo Carden	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	SCHOENSTEDT CHECK OUT
	Results Are Acceptable	Y	Team two	SCHOENSTEDT CHECK OUT
	Work Is In Compliance With The SSHP/WP	Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP	The teams continued to work intrusively and support the Range Master. Meeting was held to discuss the status of the Range Master and the project status in general. Matt Kanderfer is working on meeting minutes.			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: No marked Mec or MD items were recovered thru Range Master operations or intrusive operations				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
				DATE 6/1/2006

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE 6/2/2006
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Intrusive Operations Location: Elkton Farm site: GRIDS: I5D, B3C Personnel present: 15 personnel, 2 Timberline, 1 USACE, 1 EPA representative	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	SCHOENSTEDT CHECK OUT
	Results Are Acceptable	Y	Team two	SCHOENSTEDT CHECK OUT
	Work Is In Compliance With The SSHP/WP	Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP	The teams continued to work intrusively. Heat related breaks increased and work stoppage for lightning sightings. MEC and scrap left grids due to quick shut down for lightning. No count on possible collected hot rock; will check on Monday. Range Master is once again broken down with hydraulic problems and unable to move from the footprint area. The Range Master will be cleaned on Monday.			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: No marked Mec or MD items were recovered thru Range Master operations or intrusive operations				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
				DATE 6/2/2006

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE: 6/5/2006
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Intrusive Operations, TAZ Operations Location: Elkton Farm site; GRIDS: B3C Personnel present: 12 personnel, 2 Timberline, 1 USACE, 1 EPA representative	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	SCHOENSTEDT CHECK OUT
	Results Are Acceptable	Y		
	Work Is In Compliance With The SSHP/WP	Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP	One team of 6 in the intrusive mode. Two additional support personnel for the TA One Suxos and one QC/Safety. Stan Adams relinquished SUXO position to Steve Parkerton. Stan Adams and additional UXO tech staying on site to oversee equipment turn in. Three techs used in cleaning the Range Master. Range Master was stuck in mud for 30 minutes. TAZ pulled it free. Two IPC personnel have demobilized.			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: No marked MEC or MD items were recovered thru TAZ operations or intrusive operations				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
				DATE: 6/5/2006

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE 6/6/2006
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Intrusive Operations, TAZ Operations Location: Elkton Farm site: GRIDS: B3C Personnel present: 13 personnel, 2 Timberline, 1 USACE, 1 EPA representative	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	SCHOENSTEDT CHECK OUT
	Results Are Acceptable	Y		
	Work Is In Compliance With The SSHP/WP	Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP	One team of 6 in the intrusive mode. Two support the TAZ. Two techs for cleaning support of the Range Master cleaning. Pit 2 opened today; about 85 feet by 40 feet by 8 feet deep. There is a lot of trash, bottles, scrap metal, broken glass, and a 75mm empty canister. One 10-lb thermite bomb was located in the spoils. It was placed in the storage bunker. Asbestos was a concern today by IPC. IPC to assess tomorrow.			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: No marked MEC or MD items were recovered thru TAZ operations or intrusive operations				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
				DATE 6/6/2006

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE 6/7/2006
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Intrusive Operations, TAZ Operations Location: Elkton Farm site: GRIDS: B3C Personnel present: 13 personnel, 2 Timberline, 1 USACE, 1 EPA representative. Leo Carden and Nancy McCellen (IPC CIH)	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	SCHOENSTEDT CHECK OUT
	Results Are Acceptable	Y		
	Work Is In Compliance With The SSHP/WP	Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP	One 7-man team intrusive. Three cutting grass. TAZ continues on Pit#2. Range Master left site. IPC CIH notified EPA representative that he was not essential personnel down range and was to leave the pit area. I requested she clarify the situation with the USACE representative on site.			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: No marked MEC or MD items were recovered thru TAZ operations or intrusive operations				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
				DATE 6/7/2006

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE
				6/8/2006
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Intrusive Operations, TAZ Operations Location: Elkton Farm site: GRIDS: B3C Personnel present: 13 personnel, 3 Timberline, 1 USACE, 1 EPA representative. Leo Carden and Nancy McCellen (IPC CIH)	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	SCHOENSTEDT CHECK OUT
	Results Are Acceptable	Y		
	Work Is In Compliance With The SSHP/WP	Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP	One 5-man team intrusive. Two IPC TAZ support. TAZ continues in Pit#2. TAZ area to be considered asbestos contaminated. Alex (MDE) questioned and is coordinating with IPC CIH.			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: No marked MEC or MD items were recovered thru TAZ operations or intrusive operations				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
				DATE 6/8/2006

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE 6/12/2006
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Intrusive Operations, TAZ Operations Location: Elkton Farm site: GRIDS: B3C Personnel present: 10 personnel, 1 Timberline, 1 USACE, 1 EPA representative, 2 Tetra Tech	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	SCHOENSTEDT CHECK OUT
	Results Are Acceptable	Y		
	Work Is In Compliance With The SSHP/WP	Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP	One 7-man team intrusive. No TAZ operations due to no Level C PPE. Tetra Tech waited 4 hours to take samples of pit area. IPC had maintained pit area as exclusion zone for asbestos.			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: No marked MEC or MD items were recovered thru TAZ operations or intrusive operations				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
				DATE 6/12/2006

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE 6/13/2006
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Intrusive Operations Location: Elkton Farm site: GRIDS: B3D Personnel present: 8 personnel, 1 Timberline, 1 USACE, 1 EPA representative	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	SCHOENSTEDT CHECK OUT
	Results Are Acceptable	Y		
	Work Is In Compliance With The SSHP/WP	Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP	One 5-man team intrusive. No TAZ operations due to no Level C PPE and SOP to be developed for asbestos work. Team putting up fencing around pit area, Edgewood meeting held.			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: No marked MEC or MD items were recovered thru TAZ operations or intrusive operations				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
				DATE 6/13/2006

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE 6/14/2006
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Intrusive Operations Location: Elkton Farm site: GRIDS: B3D Personnel present: 7 personnel, 1 USACE, 1 EPA representative	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	SCHOENSTEDT CHECK OUT
	Results Are Acceptable	Y		
	Work Is In Compliance With The SSHP/WP	Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP	One 4-man team intrusive. No TAZ operations due to no Level C PPE and SOP to be developed for asbestos work.			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: No marked MEC or MD items were recovered thru TAZ operations or intrusive operations				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
				DATE 6/14/2006

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE 6/15/2006
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Intrusive Operations Location: Elkton Farm site: GRIDS: B3D Personnel present: 5 IPC personnel, 1 USACE, 1 EPA representative	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	SCHOENSTEDT CHECK OUT
	Results Are Acceptable	Y		
	Work Is In Compliance With The SSHP/WP	Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP	One 3-man team intrusive. No TAZ operations due to no Level C PPE and SOP to be developed for asbestos work. IPC packed up some USACE equipment and transported it to the Edgewood storage area.			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: No marked MEC or MD items were recovered thru TAZ operations or intrusive operations				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
				DATE 6/15/2006

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE 6/19/2006
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Intrusive Operations Location: Elkton Farm site; GRIDS: D2D Personnel present: 6 IPC personnel, 1 USACE, 1 EPA representative	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	SCHOENSTEDT CHECK OUT
	Results Are Acceptable	Y		
	Work Is In Compliance With The SSHP/WP	Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP	One 4-man team intrusive. No TAZ operations due to no Level C PPE and SOP to be developed for asbestos work. Heat/ high temperatures causing more frequent breaks.			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: No marked MEC or MD items were recovered thru TAZ operations or intrusive operations				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
				DATE 6/19/2006

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE 6/20/2006
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Intrusive Operations Location: Elkton Farm site: GRIDS: D2D Personnel present: 7 IPC personnel, 1 USACE, 1 EPA representative. 2 IPC TECHS resigned, one left site for medication heat reactions. Leaving one tech and one supervisor as the dig team.	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	SCHOENSTEDT CHECK OUT
	Results Are Acceptable	Y		
	Work Is In Compliance With The SSHP/WP	Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP	One 2-man team intrusive. No TAZ operations due to no Level C PPE and SOP to be developed for asbestos work. Heat/ high temperatures causing more frequent breaks.			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: No marked MEC or MD items were recovered thru TAZ operations or intrusive operations				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE DATE 6/20/2006				

OVERSIGHT REPORT				
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				
REPORT #:		Contract: Tetra Tech-Elkton Farms		DATE
				6/22/2006
PHASE	Y-YES: N-NO, SEE REMARKS: BLANK-NOT APPLICABLE	IDENTIFY DEFINABLE FEATURES OF WORK, LOCATION, AND PERSONNEL PRESENT		
PREPARATORY	The Work Plan And SSHP Have Been Reviewed	Y	Definable feature of work: Intrusive Operations Location: Elkton Farm site: GRIDS: D2C, B3C Personnel present: 5 IPC personnel, 1 USACE, 1 EPA representative. One IPC TECHS left for doctor's appointment.	
	Site Safety Brief Conducted	Y		
	Tailgate Briefing Conducted	Y		
	Detection Equipment Checked Out	Y		
	Preliminary Work Was Done Correctly	Y		
	Equipment Serviced And Maintained	Y		
	Work Method And Schedule Discussed	Y		
INITIAL	Preliminary Work Was Done Correctly	Y	TESTING PERFORMED AND BY WHOM	COMMENTS
	Workmanship Is Satisfactory	Y	Team one	SCHOENSTEDT CHECK OUT
	Results Are Acceptable	Y		
	Work Is In Compliance With The SSHP/WP	Y	USACE	SCHOENSTEDT CHECK OUT
FOLLOW-UP	One 2-man team intrusive. No TAZ operations due to no Level C PPE and SOP to be developed for asbestos work. Heat/ high temperatures causing more frequent breaks.			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS):				
REMARKS: No marked MEC or MD items were recovered thru TAZ operations or intrusive operations				
OVERSIGHT REPORT				
Steven D. Burhans OVERSIGHT EPA REPRESENTATIVE				
				DATE 6/22/2006

APPENDIX C: FIELD PHOTOGRAPHS



RANGE MASTER SIDE VIEW



RANGE MASTER FRONT VIEW



RANGE MASTER REAR VIEW



RANGE MASTER REMOTE VIEW SCREENS



RANGE MASTER SCREEN EMPTY



RANGE MASTER SCREEN OVER LOAD



TAZ DIGGING PIT # 2



TAZ CHANGING BUCKET



TAZ BUCKET CLOGGING



PIT #2



Slag, Metal, bottles and glass from Pit #2



Possible Asbestos shingle



POSTED AREA NEAR THE OPEN PITS



USACE QUALITY ASSURANCE CHECK



IPC DIG TEAM 06/22/2006



81 MM MORTAR ON TOP OF NOSE WEIGHTS FOR INCENDIARY BOMBS AND SMASHED 40MM
ROUND



40MM HE,(UNFUZED) PARTS OF SLAP FLARES, 40MM TRACER ELEMENTS



40 MM TRACER ELEMENTS



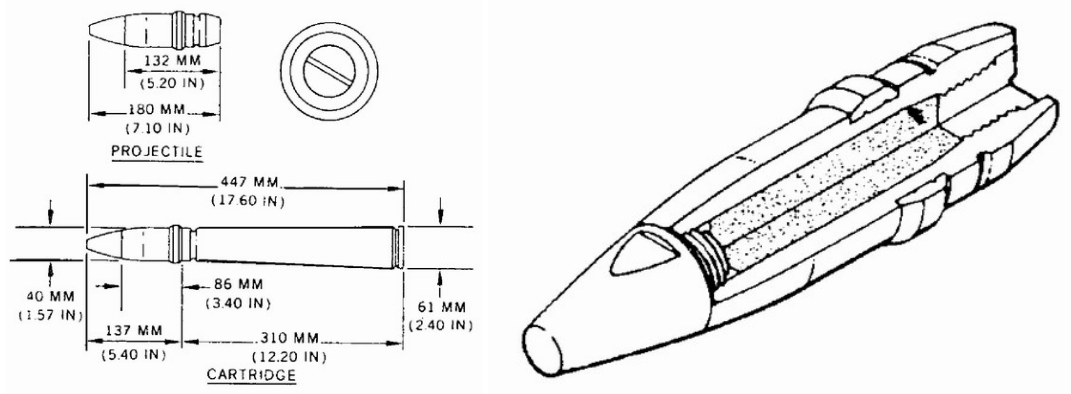
10 POUND INCENDIARY BOMBS



CARTRIDGE CASE FOR 40MM ANTI_AIRCRAFT GUN

APPENDIX D: ORDNANCE TECHNICAL DATA SHEETS

U.S. PROJECTILE, 40-MM, AA, BL&P, MK 1, MK 2



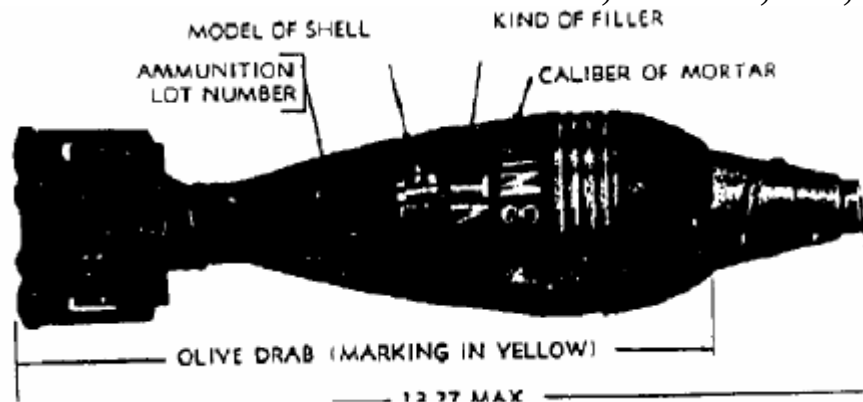
Nomenclature:	40 mm Anti-Aircraft BL & P MK1, MK2
Ordnance Family:	Projectile
DODIC:	N/A
Filler:	TNT
Filler weight:	3.1 oz
Item weight:	907.20 g (32 oz)
Diameter:	40.00 mm (1.575 in)
Length:	180.00 mm (7.987 in)
Maximum Range:	2000 meters
Fuze:	Not provided

Usage: These are spin stabilized, gun fired projectiles.

Description: The BL&P type contains the ALN prefix "UF" stenciled in black. If of early manufacture, the projectile and fuze or nose plug is red. If of recent manufacture, the projectile is blue with white body stenciling.

Reference: ORDATA Online.

U.S. PROJECTILE, 81-MM, HE, M43A1



Nomenclature:	81 mm Mortar
Ordnance Family:	Projectile
DODIC:	C225
Filler:	TNT
Filler weight:	553.39 kg (1.22 lbs)
Item weight:	3.20 kg (7.055 lbs)
Diameter:	81 mm (3.189 in)
Length:	337.06 mm (13.27 in)
Maximum Range:	2400 m (2625 yards)
Fragmentation Distance:	2,009 feet
Fuze:	Various

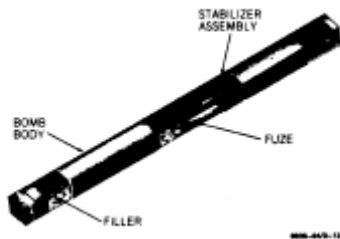
Usage: The shell was originally adapted as the light shell for the 81-mm mortar. It is designed for use against light targets such as machine gun nests, barbed wire entanglements and personnel in the open.

Description: The body is olive drab with markings in yellow. The body, filler, adapter, and bakelite fuze well cup are exactly the same as in the M43. The fuze used is the Point-detonating Fuze M52, which has a super quick action. Due to the light weight and blunt nose of this shell, very little penetration can be obtained. This shell, as the M43, is designed, therefore, to produce fragments as its primary function against personnel in the open and against barbed wire entanglements. Fragments to be effective must be above ground. The use of a super quick fuze to burst the shell above ground is therefore mandatory. The body of this shell is constructed of forged steel.

* TNT (2, 4, 6-trinitrotolucne) is a constituent of such explosives as amatol, pentolite, tetrytol, tritonal, picratol, and Comp B. In a refined form, it is one of the most stable high explosives. In the pure state, it is crystalline and nearly white, resembling a light brown sugar.

Reference: ORDATA Online

M69 INCENDIARY BOMB



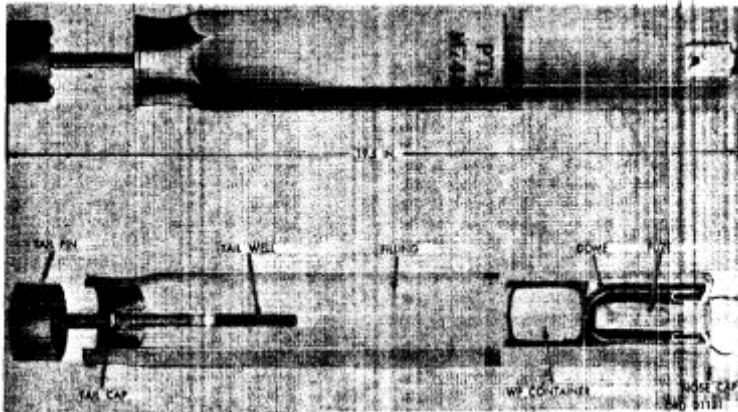
Nomenclature:	AN-M69 Incendiary Bomb
Ordnance Family:	BOMB
DODIC:	N/A
Filler:	Jellied/gasoline-Napalm
Body:	light sheet steel
Filler weight:	1.2 kg
Item Weight:	2.3 kg
Diameter:	1.63 inch (hexagonal)
Length:	21.34 inch
Color:	Gray with violet markings
Fuze:	Integral

Usage: Destruction of Structures thru burning.

Description: The M-69 firebomb had been developed earlier in the war and proved ideal for the task of burning Japanese cities to the ground (circa 1942). The M-69 was a simple weapon, shaped like a long tin can and weighing just 2.3 kg (6.2lb). Since dropping quantities of individual bombs from high altitude would be wildly inaccurate - it was designed to be incorporated into an "aimable cluster", a type of cluster bomb that contained 38 of the M-69 firebombs.

Reference: General Bomb publication

M74 INCENDIARY BOMB



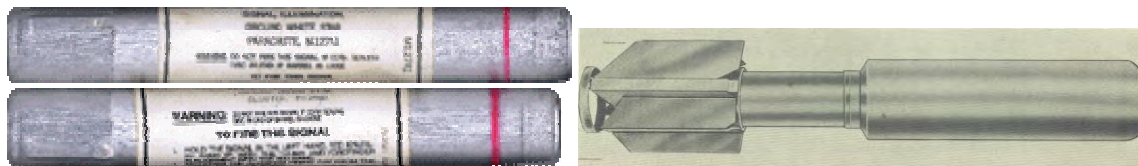
Nomenclature: Bomb Incendiary: PT1, 10-pound M74
Ordnance Family: BOMB
DODIC: N/A
Filler: Napalm-phosphorus-PT1
Body: light sheet steel
Filler weight: 2.75 lb
Item Weight: 8.5 lb
Diameter: 2.8 inch (hexagonal)
Length: 19.5 inch
Color: Gray with violet markings
Fuze: Integral M142A1

Usage: In the M31 cluster bomb for the destruction of structures thru burning. Used during WWII in Japan and Germany (circa 1942-1945).

Description: The 10-lb napalm-phosphorous bomb had a hexagonal body. The fuze and shattering charge were located at the head end, and the tail mounted a ring type stabilizer fin. Beside the napalm mixture, the body of the bomb contained 170 grams of white phosphorous in a plastic container. The AN-M74 was carried in a cassette bomb with 14, 38 to 60 of the small bombs inside it. One bomb could send out a sheet of flame from its point of impact to a range of 15-20 meters.

Reference: General Bomb publication TM 9-1325-200

U.S. SIGNAL, ILLUM, GROUND, CLUSTERS, M125A1, M158, M159; PARACHUTES, M126A1, M127A1, M195 & M207



Nomenclature: Signal, Illum, Ground, Clusters, M125A1, M158, M159;
Parachutes, M126A1, M127A1, M195 & M207

Ordnance Family: Pyrotechnics and Flares

DODIC: L314

Filler: Pyrotechnic mix, Black powder initiating and propellant charge

Filler weight: Initializing charge 0.725 gr, Propellant 39.0 gr

Item Weight: 1.3 lb

Diameter: 42.00 mm (1.65 in)

Length: 258.00 mm (10.16 in)

Fuze: Friction

Usage: These hand held slap propelled signal flares eliminated the need for a rifle or grenade launcher for signaling purposes. These signals contained their own launching mechanism and were designed to reach a minimum height of 200 meters. This group of ground signals includes the single star parachute flares, five star clusters, smoke parachutes, colored smoke streamers and the white parachute flare.

Description: These signals were shipped in gray waterproof metal containers. They have black markings which identify their type and in addition they have letters embossed in the container ends to help identify at night. It measures about 27cm long and 4.5cm in diameter. The signal is composed of three parts: Rocket Barrel (Launcher Tube): The rocket barrel made of drawn aluminum contains the complete launching and signaling devices.

Reference: ORDATA Online and TM- 43-0001-37.