

**MILITARY MUNITIONS
INVESTIGATION ACTIVITIES REPORT
and HAZARD ASSESSMENT**

**FORMER
COMMUNICATIONS SITE
RI/FS**

FORT WAINWRIGHT, ALASKA

**Final
June 2009**

**Prepared for:
U.S. Army Corps of Engineers

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**Environmental Remediation Services
Contract No. W911KB-06-D-0006**

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Background

In 1939 the US Army established Ladd Field just east of the city limits of Fairbanks, Alaska. It was created to serve as an Army cold weather station to test aircraft under arctic conditions. During World War 2, Ladd Field evolved as a strategic airfield for aircraft being transported to the Soviet Union as part of America's lend-lease program with the Soviets. In 1961 the US Army changed the name from Ladd Field to Fort Wainwright.

Geotechnical Activities

In the spring of 2004 geotechnical activities were performed during the planning phase for construction of military family housing on property known as Taku Gardens. During intrusive activities near the post gas station metallic debris, munitions debris, and discarded military munitions were discovered. One old style bomb fin assembly, two inert fragments of a 37mm projectile, one empty 75mm recoilless rifle cartridge, and five each 8-inch, M106 projectiles were found during intrusive activities. None of the items were fused, armed, or fired. US Army EOD personnel were contacted and removed these items. None of the munitions contained explosive filler, they were inert. Table 1 (MEC Located in 2004) lists the nomenclature and classification of the munitions located during the 2004 geotechnical activities.

Housing Construction

In the spring of 2005 construction of military housing began on property known as Taku Gardens. During construction buried debris was routinely discovered and removed to the Fort Wainwright Landfill. In addition to the metallic debris one 8-inch, M106 projectile was found during intrusive activities. The item was not fused, armed, or fired. US Army EOD personnel were contacted and removed this item. The projectile did not contain explosive filler, it was inert. Table 2 (MEC Located in 2005) lists the nomenclature and classification of the munitions located during the 2005 construction season.

Records Search

During the winter of 2005/2006 a review of historical records revealed the Defense Reutilization and Management Office (DRMO) had used the eastern side of the property for the disposal of unserviceable equipment and other debris by burial. This information was evaluated and the US Army determined a remedial investigation was necessary.

2006 Investigations

During the summer of 2006 an intrusive investigation by a separate contractor and with UXO qualified personnel revealed munitions-related items, buried drums, and large

quantities of scrap metal was still buried on the site. During the 2006 investigation the major items of interest were two unfuzed M47 bombs that were located; one of which contained a liquid suspected to be mustard agent. After professional analysis by the US Army technical Escort Unit and the material assessment review board (MARB) it was determined by using a portable isotopic neutron spectroscopy (pins) field unit that the liquid was water and no trace of chemicals was present. The MARB findings and final report may be found in Appendix A. In addition to the two M47's six other unfuzed munitions suspected of containing explosives were located and turned over to the US Army EOD for disposal by detonation. After detonation all five items were completely destroyed by an excessive amount of donor charges that made positive identification of the type of filler (empty, inert, or explosive) impossible to determine. Numerous other munitions related items were located, inspected for explosives and explosive residues, and determined to be free of hazardous or explosive material and disposed of in the Fort Wainwright Landfill. After initial intrusive investigations revealed the presence of buried munitions, the contractor demobilized. Table 3 (MEC Located in 2006) lists the nomenclature and classification of the munitions located during the 2006 investigation.

2007 Investigations

In the summer of 2007 Jacobs Engineering Group, Inc. mobilized to the site with UXO qualified personnel and resumed the intrusive investigation. Three unfuzed AN-M41 20-pound Fragmentation Bombs and two unfuzed M106 8-inch Projectiles were located. These five munitions were identified in the field as being live (containing explosive filler) and turned over to US Army EOD for positive identification and disposal. After detonation all five items were completely destroyed by an excessive amount of donor charges that made positive identification of the type of filler (empty, inert, or explosive) impossible to determine. Numerous other munitions related items were located, inspected for explosives and explosive residues and determined to be free of hazardous or explosive material and disposed of in the Fort Wainwright Landfill. In the fall of 2007 all fieldwork was suspended because of weather and field crews demobilized. Table 4 (MEC Located in 2007) lists the nomenclature and classification of the munitions located during the 2007 investigation.

2008 Investigations

In the spring of 2008 Jacobs Engineering Group, Inc. re-mobilized to the site with UXO qualified personnel and resumed intrusive investigations. Nine unfuzed M106 8-inch projectiles, thirteen unfuzed AN-M41 20-pound Fragmentation Bombs, four M47 Smoke bombs with burster tube (suspected to be filled with explosives), one M75 Smoke Bomb with burster tube (suspected to be filled with explosives), and two 3-5-inch unfired rocket motors, with an M29 inert fuze, were located. These twenty-nine munitions were

identified in the field as being live (containing explosive filler) and turned over to US Army EOD for positive identification and disposal. After detonating the items with an appropriately sized donor charge twenty-seven of the twenty-nine munitions were confirmed to have contained inert filler or were empty and reclassified as munitions debris. The two 3.5-inch unfired rocket motors contained propellant and were destroyed. Numerous other munitions related items were located, inspected for explosives and explosive residues and determined to be free of hazardous or explosive material and turned over to a local scrap dealer that placed them into a smelter for recycling. In the fall of 2008 intrusive investigations were completed and fieldwork was suspended because of the weather. Table 5 (MEC Located in 2008) lists the nomenclature and classification of the munitions located during the 2008 investigation.

3.5-Inch Rockets

None of the munitions located contained a fuze, except the 3.5-inch rocket motors that were fitted with the M29 inert fuze and used for training. The two unfired 3.5-inch rocket motors with M29 inert fuzes that were removed and disposed of in 2008 had propellant residue in the motor, but were fitted with inert warheads. These rockets were identified as having propellant in the motors because they both had arming wires protruding from the tail.

Summary

Because different contractors performed intrusive investigations with either no UXO qualified personnel and/or different UXO qualified personnel and different Army EOD personnel disposed of the munitions it is not possible to conclude the military munitions buried at Taku gardens were explosively filled. Additionally, no fuzed munitions were located, no fuzes were located separately; additionally, no fuze shipping or storage containers was located that may have contained a fuze(s). The munitions identified by Army EOD in 2007 as high explosive munitions are suspect because of the excessive donor charge used to detonate the items; therefore, based on the results of intrusive investigations there is no conclusive evidence to indicate that fuzed or explosive filled munitions were ever present at Taku Gardens.

Based on the types of munitions located and results of military EOD disposal activities, the Army's third party UXO expert has concluded that no fuzed or unfuzed explosively filled munitions were ever present within Taku Gardens. The Army does realize that this cannot be absolute as there were a number of different contractors who performed excavation for construction or intrusive work associated with the investigation, there was some early intrusive work conducted without UXO qualified personnel present and a number of different Military EOD personnel responded to dispose of the suspected

discarded military munitions (DMM). This conclusion was reached using professional judgment and considered that the results of field activities gave no indication that hazardous DMM was present. This conclusion is based upon the following facts:

- No fuze munitions were found.
- No fuzes were found either separately or in a fuze container.
- When detonated with the appropriate donor charge, the suspected M106 8" projectiles, M41 Fragmentation bombs and M47 Bombs were all empty or filled with plaster-of-paris.
- Those suspected M106, M41 and M47 destroyed in 2007 were destroyed using very large amounts of donor explosives and thus left no evidence.
- DMM has been found in only one section of this housing area aka "area a".
- All EM-61 anomalies identified by the RPMs for investigation have been completely removed.
- An additional 10% of the unknown anomalies greater than 75 mV were investigated as a means of providing "ground truthing" that the smaller anomalies do not contain either drums with hazardous materials or DMM.
- An additional ground truthing effort was conducted on anomalies of less than 75 mV throughout the entire compound which proved that anything less than 75 mV was caused by one of the following: small pockets of construction debris; small pockets of banding material; bundles of discarded communication wire; miscellaneous fasteners; or high concentrations of rust in the soil.
- The contractor UXO personnel on site for the last two years inspected large quantities of scrap metal found both prior to their arrival and uncovered during the investigation. Only two live rocket motors from training M29 3.5' rockets were determined to be DMM.
- More than 6 acres of land were excavated to depths of up to 18 feet during the investigation, again with only the two previously mentioned rocket motors confirmed to be DMM.

Conclusion

Based on all of the evidence collected during this extensive investigative effort, the Army feels that, regarding the issue of explosives safety, the Taku Gardens housing area is safe for residential use. It is extremely unlikely that any explosive ordnance is present at the site, and furthermore, the probability of encounter by residents with any buried munitions that might be present is itself quite remote.

Appendix A

Detailed MEC Accounting

The following tables depict the different types of munitions removed from the site, the field classification, and after detonation classification.

Table 1 MEC Located in 2004

2004 Season	Quantity
Munitions Debris (MD)	
Bomb Fins (old style box)	1
Projectile Fragments, 37mm	2
Projectile, 8-inch M 106, Practice/Inert	5
Cartridge Case, 75mm RR, empty	1
Total	9

Table 2 MEC Located in 2005

2005 Season	Quantity
Munitions Debris (MD)	
Projectile, 8-inch M106 Practice/Inert	1
Total	1

Table 3 MEC Located in 2006

2006 Season	Quantity
Munitions Debris (MD)	
57mm RR Cartridge Case	Quantity Not Known
Bomb, M47 Smoke	4
Projectile, 8-inch M106 Practice/Training	2
Smoke Tank, M10	Quantity Not Known
Total	6 Plus
Range Residue & Debris (RRD)	
Container, 105mm Howitzer	Quantity Not Known
Container, 75mm Projectile	Quantity Not Known
Container, Shipping 2.36-inch Rocket	Quantity Not Known
Container, Ammunition	Quantity Not Known
Total	Unknown
Discarded Military Munitions (DMM)	
*Bomb, M41 20lb Fragmentation	1
*Bomb, M47 Chemical Smoke	2
*Rocket, 3.5-inch T-85	1
Total	4

*These items were identified by the contractor as live, with explosive filler; after disposal by Army EOD, they were determined to be inert

Table 4 MEC Located in 2007

2007 Season	Quantity
Munitions Debris (MD)	
40mm Dummy Cart M17	3
57mm RR Cartridge Case	2
75mm RR Cartridge Case	10
Bomb Fins, (20-lb Fragmentation Bomb)	1
Bomb Fins, GP	1
Bomb, M37 17-lb Practice	1
Bomb, M38A1 Smoke	1
Bomb, M75 Smoke	1
Hand Grenade, MK 2 Practice	1
JATO Bottle	15
Mortar Tail, 60mm Illumination	1
Rocket Fins 2.75-inch	2
Rocket Fins 5-inch	6
Rocket Fuze, M6 Dummy	44
Rocket Fuze, MK3 Dummy	2
Rocket Motor 4.5-inch	4
Rocket Motor, 2.25-inch SCAR	1
Rocket, 3.5-inch M29 Practice	27
VB-3 Guided Bomb Elec. Section	19
Total	142
Range Residue & Debris (RRD)	
Container, 105mm Howitzer	451
Container, 75mm Projectile	84
Container, M29 Practice Rocket	125
Container, Mortar	15
Total	675
Discarded Military Munitions (DMM)	
**Bomb, M41 20-lb Fragmentation	3
**Projectile, 8-inch M106	2
Total	5

**Because the donor charge was so large the type of filler could not be positively identified as inert or explosive

Table 5 MEC Located in 2008

Nomenclature*, 2008 Season	Quantity
Munitions Debris (MD)	
40mm Cart Case	2
40mm Dummy Cart M17	10
57mm RR Cartridge Case	21
75mm RR Cartridge Case	47
Arming Vane for Bomb Tail Fuze	55
Bomb Fins, (20-lb Fragmentation Bomb)	0
Bomb Fins, GP	17
Bomb, M37 17-lb Practice	11
Bomb, M38A1 Smoke	8
Bomb, M41 20-lb Fragmentation	2
Bomb, M47 Smoke	7
Bomb, M75 Smoke	4
Hand Grenade, MK 2 Practice	2
JATO Bottle	90
Mortar Tail, 60mm Illumination	1
Mortar, 81mm Practice M68 w/M3 Cart	0
Parachute Assembly (20-lb Fragmentation Bomb)	135
Projectile, 8-inch M106	0
Rifle Grenade, M11 Series, Practice	2
Rocket Fins 2.75-inch	1
Rocket Fins 5-inch	503
Rocket Fuze, M6 Dummy	484
Rocket Fuze, MK3 Dummy	9
Rocket Motor 4.5-inch	4
Rocket Motor, 2.25-inch SCAR	21
Rocket, 3.5-inch M29 Practice	168
Smoke Tank, M10	4
Total	1668

Table 5 Continued MEC Located in 2008

Nomenclature*, 2008 Season	Quantity
Range Residue & Debris (RRD)	
Container, 105mm Howitzer	410
Container, 75mm Projectile	3
Container, M29 Practice Rocket	3
Container, M7 Teargas Grenade	1
Container, Mortar	2
Total	419
Discarded Military Munitions (DMM)	
Bomb, M41 20-lb Fragmentation***	13
Bomb, M47 Smoke***	4
Bomb, M75 Smoke***	1
Projectile, 8-inch M106***	9
Rocket, 3.5-inch M29 Practice (residue in motor)	2
Total	29

*** After detonation the filler was identified as inert, or no filler present

Table 6 No MEC Located in 2009

Nomenclature*, 2009 Season	Quantity
Military Munitions	
Military Munitions	0
Total	0

Appendix B
Military EOD Response Reports

EXPLOSIVE ORDNANCE INCIDENT REPORT

For use of this form, see FM 9-15; the proponent agency is US Army Training and Doctrine Command.

Incident Number:

176-18-04

Control Number:

Unusual

Routine

Reported: 24-Mar-04 15:00
 Departed Unit: 24-Mar-04 16:03
 Arrived Site: 24-Mar-04 20:30
 Depart Site: 25-Mar-04 15:18
 Arrived Unit: 25-Mar-04 17:44
 Travel Hours: 6.88
 Air Hours: 4.00
 Miles: 0
 Man Hours: 51.37
 Adjust Hours: 0

Incident Location:
 FT. WAINWRIGHT, GAS STATION
 FT WAINWRIGHT, AK (US)

Grid:
 Latitude:
 Longitude:

Supported:
 FWA MILITARY POLICE
 SSG BROCKMAN
 FWA
 FT. WAINWRIGHT, AK

Phone: (907) 353-7535
 Other Contact:

Item(s) Reported:
 155mm Projectile

Personnel Dispatched
 SFC Morrison, Neil J.

SSG Wilson, Jay P.

Ordnance Item(s) Identification and Disposition

Quantity:	UI:	Description / Fuze Condition / Lot Number	NEW (lbs):	Initial Disposition:	Final Disposition:
1	EA	Old style bomb box fins (N/A) Lot Unkown	0	OTHER	SCRAP
2	EA	37MM RECOILESS RIFLE GRENADE CASING (Inert) Lo	0	OTHER	SCRAP
1	EA	3.5 inch rocket training warhead (Unarmed) Lot Unkown	0	OTHER	SCRAP
1	EA	3.5 inch rocket with rkt motor expended (Training) Lot	0	OTHER	SCRAP
1	EA	8" artillry round (Unarmed) Lot Unkown	0	TRANS SDA	DISP BY DET
Total Net Explosive Weight (lbs):			0.00		

EXPLOSIVE ORDNANCE INCIDENT REPORT

Incident Number: 176-18-04

Categories:

- | | |
|--|---|
| <input type="checkbox"/> News Media Coverage | <input type="checkbox"/> Reserve Component Support |
| <input type="checkbox"/> Civil Law Enforcement | <input type="checkbox"/> Formerly Used Defense Site |
| <input type="checkbox"/> Chemical Response | <input type="checkbox"/> Injuries |
| <input type="checkbox"/> Nuclear Response | <input type="checkbox"/> Death(s) |
| <input type="checkbox"/> Transportation Accident | <input type="checkbox"/> Drug Related |
| <input type="checkbox"/> USACOE Supported | |

Threat:

- Imminent Threat
- Threat
- Extended Threat

SecDef Approval

- Yes
- No

Demolition Materials Used:

DODIC:	Quantity:	UI:	Description / Lot Number:	NEW (lbs):	Total NEW (lbs):
MN06 (1375-1233)	4	EA	CAP, BLASTING, DELAY, M14 Lot SHK97M001-001	0.01	0.04
M766 (1375-1671)	4	EA	IGNITER, TIME BLASTING FUSE M60 Lot SGK86F011-004	0.0001	0.0004
M023 (1375-7040)	4	EA	CHG DEMO, M112 COMP C-4 Lot LOP77L 007-002	1.25	5
Total Net Explosive Weight (lbs):					5.04

Environmental Protection Agency Coordination:

Agency: FWA Environmental (DPW)
 Person Contacted: CATHY
 Phone: (907) 353-6249
 Contact Date/Time:

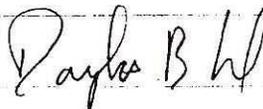
On-Site Disposal Approve
 Permit Granted:
 EPA Permit #:

Additional Information:

Telephoned the EPA agency at Ft Wainwright and got their answering service. A message was left regarding the incident and the unit phone numbers and SSG Wilson and SFC Morrison as a point of contact.

Signature of Unit Commander: (Record Copy Only)

Guard, Douglas B., Cpt, OD, Commanding



Date:

3-29-04

EXPLOSIVE ORDNANCE INCIDENT REPORT

For use of this form, see FM 9-15; the proponent agency is US Army Training and Doctrine Command.

Incident Number:

Control Number:

Unusual

Routine

176-21-04

Reported: 09-Apr-04 09:25
Departed Unit: 09-Apr-04 09:25
Arrived Site: 09-Apr-04 09:30
Depart Site: 09-Apr-04 12:10
Arrived Unit: 09-Apr-04 12:10
Travel Hours: 0.08
Air Hours: 0.00
Miles: 0
Man Hours: 5.50
Adjust Hours: 0

Incident Location:
FT. WAINWRIGHT, GAS STATION
FT WAINWRIGHT, AK (US)
Grid:
Latitude:
Longitude:

Supported:
FWA MILITARY POLICE
FWA MP DESK SERGEANT
1066 GAFFNEY ROAD
BUILDING 3446
FT. WAINWRIGHT, AK
Phone: (907) 353-7535
Other Contact:

Item(s) Reported:

1 ea Projo

Personnel Dispatched

CPT Guard, Douglas B

SFC Ferris, Thomas L.



Ordnance Item(s) Identification and Disposition

Quantity:	UI:	Description / Fuze Condition / Lot Number	NEW (lbs):	Initial Disposition:	Final Disposition:
1	EA	8" us, Inert filled (Inert) Lot #unknown	0	TRANS SDA	DISP BY DET
Total Net Explosive Weight (lbs):			0.00		

EXPLOSIVE ORDNANCE INCIDENT REPORT

Incident Number: 176-21-04

Categories:

- | | |
|--|---|
| <input type="checkbox"/> News Media Coverage | <input type="checkbox"/> Reserve Component Support |
| <input type="checkbox"/> Civil Law Enforcement | <input type="checkbox"/> Formerly Used Defense Site |
| <input type="checkbox"/> Chemical Response | <input type="checkbox"/> Injuries |
| <input type="checkbox"/> Nuclear Response | <input type="checkbox"/> Death(s) |
| <input type="checkbox"/> Transportation Accident | <input type="checkbox"/> Drug Related |
| <input type="checkbox"/> USACOE Supported | |

Threat:

- Imminent Threat
 Threat
 Extended Threat

SecDef Approval

- Yes
 No

Demolition Materials Used:

DODIC:	Quantity:	UI:	Description / Lot Number:	NEW (lbs):	Total NEW (lbs):
M766 (1375-1671)	2	EA	IGNITER, TIME BLASTING FUSE M60 Lot SGK86F011-004	0.0001	0.0002
MN06 (1375-1233)	2	EA	CAP, BLASTING, DELAY, M14 Lot SHK97M001-001	0.01	0.02
M023 (1375-7040)	2	EA	CHG DEMO, M112 COMP C-4 Lot LOP77L 007-002	1.25	2.5
Total Net Explosive Weight (lbs):					2.52

Environmental Protection Agency Coordination:

Agency: Fort Wainwright Environmental
Person Contacted: Kate Siftar
Phone: (907) 353-6249

On-Site Disposal Approve
Permit Granted:
EPA Permit #:

Contact Date/Time:

Additional Information:

Left Message

Signature of Unit Commander: (Record Copy Only)

Date:

Guard, Douglas B., Cpt, OD, Commanding

Test Form 52-1 (Reverse)

EXPLOSIVE ORDNANCE INCIDENT REPORT

For use of this form, see FM 9-15; the proponent agency is US Army Training and Doctrine Command.

Incident Number:

Control Number:

Unusual

Routine

176-24-04

Reported: 08-Apr-04 10:30
Departed Unit: 08-Apr-04 06:30
Arrived Site: 08-Apr-04 10:30
Depart Site: 08-Apr-04 12:30
Arrived Unit: 08-Apr-04 19:00
Travel Hours: 10.50
Air Hours: 2.00
Miles: 0
Man Hours: 25.00
Adjust Hours: 0

Incident Location:
FT. WAINWRIGHT, GAS STATION
FT WAINWRIGHT, AK (US)

Grid:
Latitude:
Longitude:

Supported:
FWA MILITARY POLICE
FWA MP DESK SERGEANT
1066 GAFFNEY ROAD
BUILDING 3446
FT. WAINWRIGHT, AK

Phone: (907) 353-7535
Other Contact:

Item(s) Reported:

1ea 8 inch projectile
1ea 75mm casing (expended)

Personnel Dispatched

CPT Guard, Douglas B.

SGT Jinks, David A.



Ordnance Item(s) Identification and Disposition

Quantity:	UI:	Description / Fuze Condition / Lot Number	NEW (lbs):	Initial Disposition:	Final Disposition:
1	EA	8 inch, inert filled (inert) (Unarmed) Lot #unknown	0	TRANS SDA	DISP BY DET
1	EA	Casing, 75mm Recoiless Rifle (expended) (Unarmed)	0	TRANS SDA	DISP BY DET
Total Net Explosive Weight (lbs):			0.00		

EXPLOSIVE ORDNANCE INCIDENT REPORT

Incident Number: 176-24-04

Categories:

- | | |
|--|---|
| <input type="checkbox"/> News Media Coverage | <input type="checkbox"/> Reserve Component Support |
| <input type="checkbox"/> Civil Law Enforcement | <input type="checkbox"/> Formerly Used Defense Site |
| <input type="checkbox"/> Chemical Response | <input type="checkbox"/> Injuries |
| <input type="checkbox"/> Nuclear Response | <input type="checkbox"/> Death(s) |
| <input type="checkbox"/> Transportation Accident | <input type="checkbox"/> Drug Related |
| <input type="checkbox"/> USACOE Supported | |

Threat:

- Imminent Threat
 Threat
 Extended Threat

SecDef Approval

- Yes
 No

Environmental Protection Agency Coordination:

Agency: Fort Wainwright Environmental
Person Contacted: Kate Siftar
Phone: (907) 353-6249
Contact Date/Time:

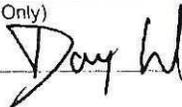
On-Site Disposal Approve
Permit Granted:
EPA Permit #:

Additional Information:

Left Message

Signature of Unit Commander: (Record Copy Only)

Guard, Douglas B., Cpt, OD, Commanding



Date:

9-13-04

EXPLOSIVE ORDNANCE INCIDENT REPORT

For use of this form, see FM 9-15; the proponent agency is US Army Training and Doctrine Command.

Incident Number:

176-27-04

Control Number:

Unusual

Routine

Reported: 12-Apr-04 10:00
Departed Unit: 12-Apr-04 11:00
Arrived Site: 12-Apr-04 14:00
Depart Site: 14-Apr-04 17:00
Arrived Unit: 14-Apr-04 19:00
Travel Hours: 5.00
Air Hours: 0.00
Miles: 0
Man Hours: 112.00
Adjust Hours: 0

Incident Location:
FT. WAINWRIGHT, GAS STATION
FT WAINWRIGHT, AK (US)

Grid:
Latitude:
Longitude:

Supported:
FWA MILITARY POLICE
FWA MP DESK SERGEANT
FWA
FT. WAINWRIGHT, AK

Phone: (907) 353-7535
Other Contact:

Item(s) Reported:
2ea 8" projectiles

Personnel Dispatched

SSG Cuilla, Michael A.



SGT Jinks, David A.



Ordnance Item(s) Identification and Disposition

Quantity:	UI:	Description / Fuze Condition / Lot Number	NEW (lbs):	Initial Disposition:	Final Disposition:
2	EA	8" Projectile (Unarmed) Lot Unkown	0	TRANS SDA	DISP BY DET
Total Net Explosive Weight (lbs):			0.00		

EXPLOSIVE ORDNANCE INCIDENT REPORT

Incident Number: 176-27-04

Categories:

- | | |
|--|---|
| <input type="checkbox"/> News Media Coverage | <input type="checkbox"/> Reserve Component Support |
| <input type="checkbox"/> Civil Law Enforcement | <input type="checkbox"/> Formerly Used Defense Site |
| <input type="checkbox"/> Chemical Response | <input type="checkbox"/> Injuries |
| <input type="checkbox"/> Nuclear Response | <input type="checkbox"/> Death(s) |
| <input type="checkbox"/> Transportation Accident | <input type="checkbox"/> Drug Related |
| <input type="checkbox"/> USACOE Supported | |

Threat:

- Imminent Threat
 Threat
 Extended Threat

SecDef Approval

- Yes
 No

Demolition Materials Used:

DODIC:	Quantity:	UI:	Description / Lot Number:	NEW (lbs):	Total NEW (lbs):
MN06 (1375-1233)	2	EA	CAP, BLASTING, DELAY, M14 Lot SHK97M001-001	0.01	0.02
M766 (1375-1671)	2	EA	IGNITER, TIME BLASTING FUSE M60 Lot SGK 86F 011 004	0.0001	0.0002
M023 (1375-7040)	6	EA	CHG DEMO, M112 COMP C-4 Lot LOP77L 007-002	1.25	7.5
Total Net Explosive Weight (lbs):					7.52

Environmental Protection Agency Coordination:

Agency: Fort Wainwright Environmental
Person Contacted: Kate Siftar
Phone: (907) 353-6249
Contact Date/Time:

On-Site Disposal Approve
Permit Granted:
EPA Permit #:

Additional Information:

Left Voice Message

Signature of Unit Commander: (Record Copy Only)

Date:

Guard, Douglas B., Cpt, OD, Commanding

Test Form 52-1 (Reverse)

EXPLOSIVE ORDNANCE INCIDENT REPORT

For use of this form, see FM 9-15; the proponent agency is US Army Training and Doctrine Command.

Incident Number:

Control Number:

Unusual

Routine

176-8-05

Reported: 20-Apr-05 17:30
Departed Unit: 21-Apr-05 03:30
Arrived Site: 21-Apr-05 07:30
Depart Site: 21-Apr-05 09:30
Arrived Unit: 21-Apr-05 15:00
Travel Hours: 9.50
Air Hours: 2.00
Miles: 0
Man Hours: 23.00
Adjust Hours: 0

Incident Location:
FWA GAS STATION
FORT WAINRIGHT, AK (US)

Grid:
Latitude:
Longitude:

Supported:
FWA MILITARY POLICE
SGT MUAR
BLDG 3446
FORT WAINRIGHT, AK

Phone: (907) 353-7535
Other Contact:

Item(s) Reported:

1 Ea. 8 inch projo

Personnel Dispatched

CPT Guard, Douglas B.

SFC Grotkin, David

Ordnance Item(s) Identification and Disposition

Quantity:	UI:	Description / Fuze Condition / Lot Number	NEW (lbs):	Initial Disposition:	Final Disposition:
0	EA	Scrap Items (N/A) Lot Unknown	0	OTHER	SCRAP
Total Net Explosive Weight (lbs):			0.00		

EXPLOSIVE ORDNANCE INCIDENT REPORT

Incident Number: 176-8-05

Categories:

- | | |
|--|---|
| <input type="checkbox"/> News Media Coverage | <input type="checkbox"/> Reserve Component Support |
| <input type="checkbox"/> Civil Law Enforcement | <input type="checkbox"/> Formerly Used Defense Site |
| <input type="checkbox"/> Chemical Response | <input type="checkbox"/> Injuries |
| <input type="checkbox"/> Nuclear Response | <input type="checkbox"/> Death(s) |
| <input type="checkbox"/> Transportation Accident | <input type="checkbox"/> Drug Related |
| <input type="checkbox"/> USACOE Supported | |

Threat:

- Imminent Threat
 Threat
 Extended Threat

SecDef Approval

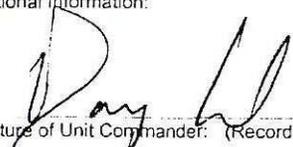
- Yes
 No

Environmental Protection Agency Coordination:

Agency:
Person Contacted:
Phone:
Contact Date/Time:

On-Site Disposal Approve
Permit Granted:
EPA Permit #:

Additional Information:


Signature of Unit Commander: (Record Copy Only)
Guard, Douglas B., Cpt, OD, Commanding


Date:

Test Form 52-1 (Reverse)

UCN	Title
PACEIEL0606280217Z	M47 100lb Bomb at Ft Wainwright
Status	Incident Type
Final	Pick Up and/or Disposal (UXO)
Attachments	
Yes	

EOD Personnel:	3
Other Personnel:	0

EOD Manhours:	16:30
Other Manhours:	0:00
Admin Manhours:	1:00
Tot. Manhours:	17:30

Requestor
Mr. Jim Hugg
Ft. Wainwright

	Date and Times	
	Date	Time
Report:	6/26/06	0730
Start:	6/26/06	0730
Stop:	6/26/06	1300

Participating Personnel		
Name	Job	Status
Harris, Steven S. SrA	EOD Operations Support	Active Duty
Moore, John L. SSgt	EOD Team Chief	Active Duty
Schaff, Isaiah C. SrA	EOD Team Member	Active Duty

Narrative	
<p>Start Input From Event Log:</p> <p>2006-06-26 0730 EOD recieve a call from Jim Hugg, a retired Marine EOD technician, who is working as a contractor for Ft. Wainwright, of possible M47A1 chemical bomb on Ft Wainwright. He said that the bomb had been found the previous day, around 1600 hours under a pile of metal scrap. He examined the item, researched it and then placed it in an overpack.Mr. Hugg was advised to notify local (Ft. Wainwright) authorities in order to initiate a proper response.</p> <p>2006-06-26 1045 SFC Bartley of Ft. Richardson Army EOD, called requesting Eielson EOD respond to this incident. He was advised to call the Eielson Command Post to formally initiate deployment of Eielson assets.</p> <p>2006-06-26 1148 EOD team recieves permission via Col Weider to respond to Ft Wainwright.</p> <p>2006-06-26 1313 Team arrives on scene and makes contact with Jim Hugg.</p> <p>2006-06-26 1330</p>	

Visual inspection of munition revealed it was in fact an M47 series 100lb aerial bomb. No external features were visible to determine the variant of the bomb: Chemical (H), Smoke (WP), or Incendiary. Several small ruptures in the outer casing revealed that the bomb body was empty with no visible residue of any filler or the internal paint or oil coatings described in technical orders. Wall thickness in excess of 1/32nd inch, the weak, banded lugs and the shortened tail fin section all indicated the bomb was either an M47A1 or A2. The team elected to x-ray the bomb to verify the visual inspection. The body was definitely empty. The fuze-like structure on the nose was a shipping plug. X-rays also revealed a burster tube running the length of the body. Team chief determined that disposal was appropriate, and that the munition was safe to transport for disposal.

2006-06-26 1530

The bomb was transported from the Ft. Wainwright housing area to a secure Army range until disposal procedures could be performed.

2006-06-26 1630

Team returned to base and reconstituted all equipment.

End Input From Event Log

2006-06-29 1000

Two EOD personnel were dispatched to dispose of the bomb at its location on the Army range. Detonation was successful. End of incident.

Special Identification	
Ordnance:	US Military Conventional Munitions/Components/Bulk Explosives
Support:	US ARMY
Category:	N/A Category Not Assigned

Location	
Latitude:	Longitude:
Grid Zone: 6W	Grid Square: VS
Easting: 68000	Northing: 89000

Injuries	
Types:	None
Numbers	
EOD:	
DoD:	
Civilian:	
Other Agn:	

Property	
Damage:	N
Amount:	

EPA Information	
Permit Required:	N
Permit Type:	
Permit Number:	
EPA Contact:	

Deficiencies				
Tracking Nbr	Type	POC	Status	Est Comp Dt
Description				

MAJCOM Remarks
AFCESA Remarks

Ordnance Involved						
Nationality	Class	Nomenclature	Qty	RSP	DP	Tech data
United States	Bomb	M47-Series 100lb Bomb	1	NA	Yes	60A-2-1-12, 60A-2-1-

Ordnance Details										
Actuation										
Actuation Method	Initial Type	Initial SubType			Other	Range	Remarks			
No Actuations Available										
Power Sources										
Source	Other	Quantity	Connection			Remarks				
No Power Sources Available										
Explosives Found										
Cat	Type	Other	Qty	Color	Wt	Len	Ht	Wid	Dia	Remarks
No Explosives Found Available										
Fragmentations										
Type	Other	Remarks								
No Fragmentaions Available										
Device Housing & Description										
Package Placement:	Primary Device Housing Material:			Secondary Device Housing Material:						
Other:						Color/Markings:				
Device Description:										
Device Position:										
Dimensions						Vehicles				
Length:						Make:				
Height:						Model:				
Width:						Year:				
Diameter:						Tag:				
Weight:						VIN:				
						Country:				
						State:				
						Other:				
Delivery Details										
Device Placed/Delivered:	Other:			Final Evacuation Distance:						
Device/Item placed to entice action from individual?						N	Explain:			
RSP Details										
RSP Conducted?		RSP Successful?		RSP Narrative:						
RSP Conducted By										
Last Name					SIPR Email					
First Name					NIPR Email					
Rank					Phone					
Final Disposition										

Dispose by detonation?		Parts/Pieces Detonated:	
Other:		Name of Disposal Site	
Exact Location of Disposal Site		Parts/Pieces Transferred to Someone?	N
Parts/Pieces Transferred		Other:	
Disposition Narrative			
Custody Transfer To			
Name:		Organization:	
Address:		Components forwarded to CEXC?	N

Explosives Used			
Nomenclature	DODIC	Qty	LotNbr
Charge, Demolition, 1.25 lb, C-4, M112	M023	20	LOP91D020-003
Cap, Blasting, Non-electric, Special, M7	M131	3	CIL-2-1
Fuse, Blasting, Time, M700	M670	50	ENS89A001-004
Igniter, Time Blasting Fuse, M60	M766	5	SGK83C009-004

Post Mission			
Intended Physical Targets			
Physical Target	Other	Target Type	Target Remarks
No Intended Physical Targets Available			
Actual Physical Targets			
Physical Target	Other	Target Type	Target Remarks
No Actual Physical Targets Available			
Lessons Learned			
Problems Encountered		Solutions	
No Lessons Learned Available			
Comments			
Title	Modified By	Modified Date	Text Note Data
No Comments Available			

Routing Information		
To:	Thru:	From:
HQ AFCESA/CEXD HQ AFCESA/CEXD 139 BARNES DRIVE, SUITE 1 TYNDALL AFB, FL 32403-5319 DSN: 523-6410/6478/6128/6306/6156/6281/6120 EMAIL: AFCESA_CEXD@tyndall.af.mil	HQ PACAF/CEXOD 25 E STREET, STE D-306 HICKAM AFB, HI 96853-5412 DSN: 315-449-9483/5208 EMAIL: albert.schneider@hickam.af.mil	354 CES/CED 2310 CENTRAL AVE, SUITE 100 EIELSON AFB, AK 99702-2225 DSN: 317-377-1650/4207 EMAIL: 354ces.ced@eielson.af.mil

Approvals		
	Approver	Date
Team Chief:	Moore, John L. SSgt	6/29/06

Supervisor:	Finch, Arin E. TSgt	7/14/06
MAJCOM Staff:	Payes, Morris C. Contractor	7/14/06

UCN	Title
PACEIEL0606121541Z	Frag Bomb AN-M41 at new Ft. Wainwright housing
Status	Incident Type
Final	Pick Up and/or Disposal (UXO)
Attachments	
Yes	

EOD Personnel:	5
Other Personnel:	0

EOD Manhours:	17:30
Other Manhours:	0:00
Admin Manhours:	1:00
Tot. Manhours:	18:30

Requestor
MSgt. Stammers
354 FW/CPO Eielson AFB, Alaska. 99702

	Date and Times	
	Date	Time
Report:	6/11/06	1600
Start:	6/11/06	1600
Stop:	6/14/06	1930

Participating Personnel		
Name	Job	Status
Durantt, Erick R. SrA	EOD Operations Support	Active Duty
Hallenbeck, Steven L. TSgt	EOD Flight Chief	Active Duty
Schaff, Isaiah C. SrA	EOD Team Member	Active Duty
Sprague, Amber M. SrA	EOD Team Member	Active Duty
Szczurek, Stephen N. SSgt	EOD Team Chief	Active Duty

Narrative	
<p>11 June 2006: EOD stand by team was requested to respond to possible UXO at new housing development on Ft. Wainwright Aprox 1600hrs. Upon arrival to the incident site the UXO was identified as a 20 lb Frag Bomb AN-M41. No Fuzing was encountered and item was safe for transport. The UXO was transported to the Ft. Wainwright (secure) AT-4 firing range awaiting disposal.</p> <p>14 June 2006: EOD team disposed of the item by detonation at Ft. Wainwright AT-4 firing range.</p>	
Special Identification	
Ordnance:	US Military Conventional Munitions/Components/Bulk Explosives
Support:	Assigned Unit
Category:	N/A Category Not Assigned
Location	
Latitude:	Longitude:
Grid Zone: 06W	Grid Square: VS
Easting: 68123	Northing: 89112

Injuries		Property		EPA Information	
Types:	None	Damage:	N	Permit Required:	N
Numbers		Amount:		Permit Type:	
EOD:				Permit Number:	
DoD:				EPA Contact:	
Civilian:					
Other Agn:					
Deficiencies					
Tracking Nbr	Type	POC	Status	Est Comp Dt	
Description					
MAJCOM Remarks					
AFCESA Remarks					

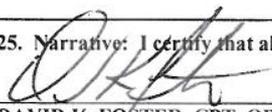
Ordnance Involved						
Nationality	Class	Nomenclature	Qty	RSP	DP	Tech data
United States	Dispenser, Cluster & Launcher	AN-M41	1	NA	Yes	60A-2-1-12
Ordnance Details						
Actuation						
Actuation Method	Initial Type	Initial SubType	Other	Range	Remarks	
No Actuations Available						
Power Sources						
Source	Other	Quantity	Connection	Remarks		
No Power Sources Available						
Explosives Found						
Cat	Type	Other	Qty	Color	Wt	Len Ht Wid Dia Remarks
No Explosives Found Available						
Fragmentations						
Type	Other	Remarks				
No Fragmentaions Available						
Device Housing & Description						
Package Placement:		Primary Device Housing Material:		Secondary Device Housing Material:		
Other:				Color/Markings:		
Device Description:						
Device Position:						

Dimensions				Vehicles			
Length:				Make:			
Height:				Model:			
Width:				Year:			
Diameter:				Tag:			
Weight:				VIN:			
				Country:			
				State:			
				Other:			
Delivery Details							
Device Placed/Delivered:			Other:			Final Evacuation Distance:	
Device/Item placed to entice action from individual?			N	Explain:			
RSP Details							
RSP Conducted?		RSP Successful?		RSP Narrative:			
RSP Conducted By							
Last Name				SIPR Email			
First Name				NIPR Email			
Rank				Phone			
Final Disposition							
Dispose by detonation?		Parts/Pieces Detonated:					
Other:				Name of Disposal Site			
Exact Location of Disposal Site					Parts/Pieces Transferred to Someone?		N
Parts/Pieces Transferred				Other:			
Disposition Narrative							
Custody Transfer To							
Name:				Organization:			
Address:				Components forwarded to CEXC?		N	
Explosives Used							
Nomenclature				DODIC	Qty	LotNbr	
Cap, Blasting, Non-electric, Special, M7				M131	2	CIL-2-1	
Fuse, Blasting, Time, M700				M670	50	ENS89A001-004	
Igniter, Time Blasting Fuse, M60				M766	5	SGK92E013-007	
Block, Demolition, C4, M112-1LB				MN53	6	LOP91D020-003	
Post Mission							
Intended Physical Targets							
Physical Target	Other	Target Type	Target Remarks				
No Intended Physical Targets Available							

Actual Physical Targets			
Physical Target	Other	Target Type	Target Remarks
No Actual Physical Targets Available			
Lessons Learned			
Problems Encountered		Solutions	
No Lessons Learned Available			
Comments			
Title	Modified By	Modified Date	Text Note Data
No Comments Available			

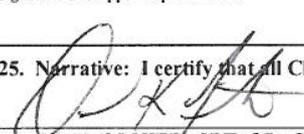
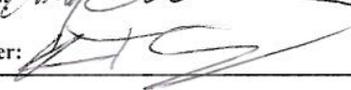
Routing Information		
To:	Thru:	From:
HQ AFCESA/CEXD HQ AFCESA/CEXD 139 BARNES DRIVE, SUITE 1 TYNDALL AFB, FL 32403-5319 DSN: 523- 6410/6478/6128/6306/6156/6281/6120 EMAIL: AFCESA_CEXD@tyndall.af.mil	HQ PACAF/CEXOD 25 E STREET, STE D-306 HICKAM AFB, HI 96853-5412 DSN: 315-449-9483/5208 EMAIL: albert.schneider@hickam.af.mil	354 CES/CED 2310 CENTRAL AVE, SUITE 100 EIELSON AFB, AK 99702-2225 DSN: 317-377-1650/4207 EMAIL: 354ces.ced@eielson.af.mil

Approvals		
	Approver	Date
Team Chief:	Finch, Arin E. TSgt	7/18/06
Supervisor:	Finch, Arin E. TSgt	7/20/06
MAJCOM Staff:	Payes, Morris C. Contractor	7/20/06

EXPLOSIVE ORDNANCE INCIDENT REPORT			1. 716th EOD Incident #		2. JRAC #		
			716-002-08		918-005-08		
3. Reported:	15 Oct 07 1129	9. Incident Location ASP, Fort Wainwright, AK		12. Supported: FWA ASP			
4. Departed Unit:	15 Oct 07 1430			13. Address:			
5. Arrived Site:	15 Oct 07 1615			14. City/State: FWA			
6. Depart Site:	15 Oct 07 1830			15. POC: Ignaczak, John P			
7. Arrived Unit:	15 Oct 07 2100	10.	11.	16. Phone #: 907-353-6593			
8. Air Hours:4 Miles:70 Adjusted Hours:		S.I.R <input type="checkbox"/>	Imminent <input type="checkbox"/>	17. Personnel Dispatched: SFC Herndon, Phillip E. SGT Pringle, Joshua P.			
		Routine <input checked="" type="checkbox"/>	Threat <input checked="" type="checkbox"/>				
		Unusual <input type="checkbox"/>	Extended <input type="checkbox"/>				
18. <input type="checkbox"/> News Media		<input type="checkbox"/> Reserve Component Support		19. Item(s) Reported: Grenade, Launcher, Smoke: Simulant Screening, M82 in the armed position			
<input type="checkbox"/> Civil Law Enforcement		<input type="checkbox"/> Formerly Used Defense Site					
<input type="checkbox"/> Chemical Response		<input type="checkbox"/> Injuries					
<input type="checkbox"/> Nuclear Response		<input type="checkbox"/> Death(s)					
<input type="checkbox"/> Transportation Accident		<input type="checkbox"/> Drug Related					
<input type="checkbox"/> USACOE Supported							
20. Initial Disposition: Trans SDA		21 Final Disposition: Dispose by detonation		23. Confirmed Identification: 1ea: Grenade, Launcher, Smoke: Stimulant Screening, M82. 2 ea: Bomb, Frag, 20lb., M42 Lot Number: ME194M001-004 (Grenade) Net Explosive Weight: 19lbs			
22. EPA Agency: POC: Phone #: Date/Time:		Permit Number:					
24. HAZARDOUS MATERIALS MANIFEST							
	Quantity		Nomenclature	Hazard Class	UN ID	Packing Group	
Drawn	Expended	Returned				LOT Number	
4	4	0	Charge, Demolition, M112	1.1D	UN0048	PG II	LOPM007-004
2	2	0	Cap, Blasting, Delay, M14	1.4S	UN0349	PG II	SHK98D001-001
2	2	0	Igniter, Time blasting Fuze, M81	1.4S	UN0131	PG II	LNO01K005-005
			<i>Nothing Follows PERH</i>				
Name of shipper: 716 th Ord. Co. (EOD) Fort Richardson, AK 99505 Continuation pages: 716 th EOD (907) 384-7600/7602			This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the DOT & 49 CFR.				
Signature of Shipper Representative			Signature(s) of Vehicle Operator(s)				
25. Narrative: I certify that all Class V materials listed as expended were consumed during the conduct of this incident.							
 DAVID K. FOSTER, CPT, OD, Commanding			Team Leader: SGT Pringle, Joshua P.  Team Member: SFC Herndon, Phillip E.				

NARRATIVE OF INCIDENT # 716-002-08

Upon arrival to ASP, FWA, the team found that despite his being notified at 1356 hours that the team was enroute to his location, Mr. Ignaczak had decided to go home and close the QASAS office. The team got hold of Mr. Mark form the ASP and he returned to the office, and got us the grenade. Team was then also shown 2ea 20lb Fragmentation bombs that were turned into the ASP and no longer serviceable. After Team Leader ensured that all the items were safe to transport, Team proceeded to demo range and the items were disposed of by detonation. Team returned to unit at 2100 on 15 October 2007. Mission Complete.

EXPLOSIVE ORDNANCE INCIDENT REPORT			1. 716th EOD Incident #		2. JRAC #		
			716-003-08		918-007-08		
3. Reported:	1236/18/OCT/07	9. Incident Location: FWA ASP, FT Wainwright Alaska BLDG 2201		12. Supported: FWA ASP			
4. Departed Unit:	0515/19/OCT/07			13. Address: BLDG 2201			
5. Arrived Site:	0800/19/OCT/07			14. City/State: FWA, Alaska			
6. Depart Site:	1840/19/OCT/07			15. POC: John Ignaczak			
7. Arrived Unit:	2210/19/OCT/07	MGRS: LAT:	10. S.I.R <input type="checkbox"/>	11. Imminent <input type="checkbox"/>	16. Phone #: 907-353-6441		
8. Air Hours: 3 Miles: Adjusted Hours: 14		Routine <input checked="" type="checkbox"/>	Unusual <input type="checkbox"/>	Threat <input type="checkbox"/>	Extended <input checked="" type="checkbox"/>	17. Personnel Dispatched: SFC Wilson SGT Culp	
18. <input type="checkbox"/> News Media		<input type="checkbox"/> Reserve Component Support		19. Item(s) Reported: 1-20lb. Frag Bomb 2-8" HE projos 1-M82 Smoke Grenade 2-M116A2 Grenade Simulator 1-M115A2 Artillery Simulator 2-M49A1 Trip Flares			
<input type="checkbox"/> Civil Law Enforcement		<input type="checkbox"/> Formerly Used Defense Site					
<input type="checkbox"/> Chemical Response		<input type="checkbox"/> Injuries					
<input type="checkbox"/> Nuclear Response		<input type="checkbox"/> Death(s)					
<input type="checkbox"/> Transportation Accident		<input type="checkbox"/> Drug Related					
<input type="checkbox"/> USACOE Supported							
20. Initial Disposition: Trans SDA		21 Final Disposition: Dest. By Detonation		23. Confirmed Identification: 1-20lb. Frag Bomb (AN M 41) 2-8" HE projos (M106) 1-M82 Smoke Grenade 2-M116A2 Grenade Simulator 1-M115A2 Artillery Simulator 2-M49A1 Trip Flares			
22. EPA Agency: POC: Phone #: Date/Time:		Permit Number:					
24. HAZARDOUS MATERIALS MANIFEST							
	Quantity		Nomenclature	Hazard Class	UN ID	Packing Group	LOT Number
Drawn	Expended	Returned					
12	12	0	Charge, Demolition, M112	1.1D	UN0048	PG II	LOP-77M007-004
2	2	0	Cap, Blasting, Delay, M14	1.4S	UN0349	PG II	SHK98D001-001
2	2	0	Igniter, Time blasting Fuze, M81	1.4S	UN0131	PG II	LNO01K005-005
Name of shipper: 716 th Ord. Co. (EOD) Fort Richardson, AK 99505 Continuation pages: 716 th EOD (907) 384-7600/7602			This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the DOT & 49 CFR.				
Signature of Shipper Representative			Signature(s) of Vehicle Operator(s)				
25. Narrative: I certify that all Class V materials listed as expended were consumed during the conduct of this incident.  DAVID K. FOSTER, CPT, OD, Commanding			Team Leader:  Team Member: 				

NARRATIVE OF INCIDENT # 716-003-08

Team received items from QASAS representative in the FWA ASP. Three of the listed items had been recovered from Tegu Gardens housing project by civilian UXO contractors (2 ea. 8" M106 projectiles and 1 ea. AN M41 20LB. Frag bomb). All other items had been turned into the ASP in what was deemed to be unsafe condition. All items were transported to the FWA Range complex and disposed of by detonation.

////////////////////////////////////NOTHING FOLLOWS////////////////////////////////////

NARRATIVE OF INCIDENT # 716-__051__-08

The ordnance items found from Tegu Gardens Housing Project from civilian UXO contractors were handed over to the EOD Team to conduct explosive procedures to ensure that the items contained no explosive hazards. There were no hazards present.



**DEPARTMENT OF THE ARMY
US ARMY CHEMICAL MATERIALS AGENCY
5183 BLACKHAWK ROAD
ABERDEEN PROVING GROUND MD 21010-5424**

AMSCM-D

MEMORANDUM FOR Office of the Installation Garrison Commander, ATTN: IMPA-FWA-ZA, LTC Ronald M. Johnson, 1060 Gaffney Road #6000, Fort Wainwright, Alaska 99703-6000

SUBJECT: Materiel Assessment Review Board Recommendation for Fort Wainwright (WAK) Item

1. The Materiel Assessment Review Board (MARB) met on 11 August 2006 to evaluate non-intrusive assessment data collected on one item recovered at Fort Wainwright, Alaska. The item was assessed with x-ray and Portable Isotopic Neutron Spectroscopy (PINS).
2. Item WAK-06-001, a 100-lb Bomb, M47, was determined to not contain energetics. PINS analysis revealed that the item possibly contains water and is subsequently recommended for Local Disposition.
3. The MARB conference notes are enclosed, and the MARB Materiel Assessment Data Sheet (MADS) are at attachment D of the enclosure. Item-specific data to include weight, x-ray analysis, explosive configuration, and fill are provided in the MADS. Please carefully review the MADS prior to disposal.
4. For more information and to report destruction of the item please call Mr. Russell Fendick, Office of the Project Manager for Non-Stockpile Chemical Materiel at 410-436-8094 (DSN 584-8094), or Mr. Robert Maddox, 22nd Chemical Battalion at 410-436-7193 (DSN 584-7193).

Encl

MICHAEL A. PARKER
Director

AMSCM-D

SUBJECT: Materiel Assessment Review Board Recommendation for Fort Wainwright,
AK Item

CF (w/encl):

Commander, US Army Research, Development and Engineering Command (AMSRD-
CIH/Mr. Smart), Bldg E5027, 5183 Blackhawk Road, Aberdeen Proving Ground,
MD 21010-5424

Commander, US Army Dugway Proving Ground (WDMU-T/Ray Ream), Dugway,
UT 84022-5000

Commander, 22nd Chemical Battalion (TE), (AFCB-TE-CO/LTC Terrell), Building
E1942, 5183 Blackhawk Road, Aberdeen Proving Ground, MD 21010-5424

Technical Director, US Army Edgewood Chemical Biological Center (AMSRD-ECB-CB-
C/Mr. Blades), Building E3942, 5183 Blackhawk Road, Aberdeen Proving Ground,
MD 21010-5424

Dr. Gus Caffrey, Idaho National Laboratory, PO Box 1625, Idaho Falls, ID 83415-3855

Mr. Ike Purser, Purser Radiation Safety and Training, Inc., 7330 Judy Drive, Bryans
Road, MD 20616

AMSCM-D

**SUBJECT: Materiel Assessment Review Board Recommendation for Fort Wainwright,
AK Item**

CF (w/encl):

**Chief, Occupational Health, Risk Management Directorate (Mr. Cushen), Building 4585,
5183 Blackhawk Road, Aberdeen Proving Ground, MD 21010
Director, US Army Chemical Materials Agency (AMSCM-OPS/Mr. Tilton)**

Page: 1 of 2
File Code: 06MARB28
Date: 11 August 2006

CMA CONFERENCE NOTES

MEETING TITLE: **MATERIEL ASSESSMENT REVIEW
BOARD MEETING**

DATE HELD: 11 August 2006; 0900 hours Eastern Time

RECORDED BY: Ms. Karen Liebowitz, Materiel Assessment Review
Board Representative

LOCATION: U.S. Army Technical Escort Unit Building, E1942,
Conference Room, Aberdeen Proving
Ground-Edgewood Area, Maryland

ATTACHMENT A: Attendee Log

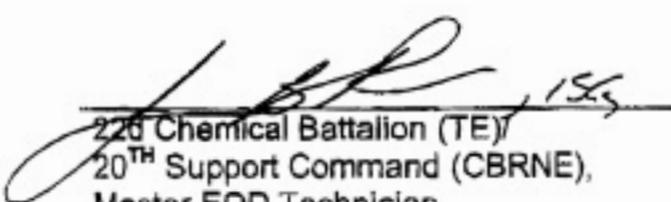
ATTACHMENT B: Portable Isotopic Neutron Spectroscopy Quick-Look
Assessment Report for Item Found at Fort
Wainwright, Alaska

ATTACHMENT C: Item Recommended for Local Disposition

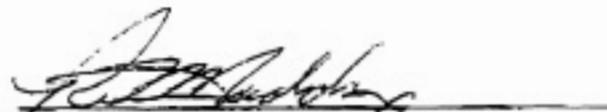
ATTACHMENT D: Materiel Assessment Data Sheet for Item Found at
Fort Wainwright, Alaska

**Material Assessment Review Board
Concurrence Sheet**

Date 11 August 2006


22d Chemical Battalion (TEU)
20TH Support Command (CBRNE),
Master EOD Technician


22d Chemical Battalion (TEU)
20TH Support Command (CBRNE),
Master EOD Technician


22d Chemical Battalion (TEU)
20TH Support Command (CBRNE), EOD
Technician or Ordnance Removal
Specialist


INL, Nuclear Scientist

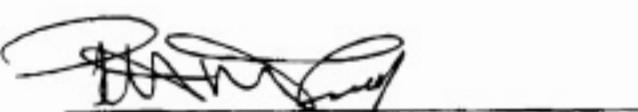

ECBC, Chemical Biological Applications
Division Representative


Level II Certified Radiographer


RDECOM, Command Historian
Representative


CMA, Directorate of Risk Management
Representative


PMNSCM Representative


22nd Chemical Battalion (TEU),
Chairperson

Page: 2 of 2
 File Code: 06MARB28
 Date: 11 August 2006

CMA CONFERENCE NOTES

1. INTRODUCTION

LTC Patrick Terrell, Commander, U.S. Army 22nd Chemical Battalion (TE), convened the Materiel Assessment Review Board (MARB) meeting on 11 August 2006 at 0900 hours Eastern Time (ET) to review and make a recommendation for one item recovered at Fort Wainwright, Alaska (WAK).

2. ITEM ASSESSMENT

Item WAK-06-001, a 100-lb bomb M47, was assessed using X-ray and the Portable Isotopic Neutron Spectroscopy (PINS) Chemical Assay System. This item was determined to be unfuzed with no energetics present and contains a 10% liquid fill. PINS analysis revealed that this item contains possible water, and was subsequently recommended for Local Disposition (LD) disposal.

The following table provides a summary of the MARB assessment of the item. (Author's Note: A key for all acronyms and symbols used below follows the table.)

WAK-06-001	Bomb, 100lb, M47	Strong hydrogen, possible water, not CWM	10% liquid fill, unfuzed, no energetics	LD
Acronym Key	CWM= Chemical Warfare Materiel, LD=Local Disposition, WAK=Fort Wainwright, Alaska			

3. ADJOURNMENT

The meeting adjourned at approximately 0905 hours ET. The date and time of next MARB meeting will be announced.

ATTACHMENT A

ATTACHMENT A**11 August 2006 MARB Meeting
Attendee Log**

Name	Organization	Phone
CAFFREY, Dr. Gus	INL	208.526.4024
CIOLFI, Kathy	AMSRD-CIH	410.436.4430
CUSHEN, Alan	CMA Risk Management	410.436.4985
GIESEKING, John	PM NSCM	410.436.3768
HEINLEIN, Shawn	ECBC	410.436.4202
LIEBOWITZ, Karen	SAIC MARB	443.402.9026
LLOYD, Celeste	SAIC MARB	443.402.9120
MADDOX, Robert	22 nd Chemical Battalion	410.436.7193
PONCE, 1SG JUAN	22 nd Chemical Battalion	410.436.7193
TERRELL, LTC Patrick	22 nd Chemical Battalion	410.436.3044

ATTACHMENT B

Official Use Only

**PINS Quick-Look Report
Ft. Wainwright M47 Aerial Bomb**

A.J. Caffrey and E.H. Seabury
Idaho National Laboratory
10 August 2006

1. Item Assayed

A suspect chemical M47 artillery aerial bomb was assessed with the PINS Chemical Assay System at Fort Wainwright, Alaska on 10 August 2006. The bomb overpacked in an airtight stainless steel container during the PINS assessment.

2. Assay methods

The bomb was assayed with a miniPINS system, PINS-21, for 3,000 live seconds with intermediate results saved every 1,000 live seconds. A background spectrum was also recorded for 1,000 live seconds. Mr. Charles Cook and Mr. Steve Cottrill of the U.S. Army 22nd Chemical Battalion (Technical Escort) conducted the PINS measurements.

A.J. Caffrey and E.H. Seabury of the Idaho National Engineering and Environmental Laboratory (INEEL) reviewed the PINS data on 10 August 2006.

3. Data Summary and Conclusions

The energy resolution of the PINS system during the acquisition of the following data was excellent (97%), judged by the peak-to-valley ratio of the 7631 and 7645 keV iron capture gamma-ray peaks.

WAK-006-001, M47 aerial bomb

A strong hydrogen peak at 2223 keV was detected in the PINS spectra from this bomb. No other key elements, including arsenic, boron, chlorine, nitrogen, phosphorus, sulfur, titanium, or zinc were observed in the spectra from this munition.

The hydrogen peak in the PINS spectra from this bomb, plus the absence of all other PINS key elements, suggests water is present. The PINS fill identification is possible water.

The PINS assay results are summarized in the following table:

Official Use Only

**Ft. Wainwright Aerial Bomb
PINS Assessment 10 Aug 2006**

GMID	PINS File	Time	Key Elements	PINS FIII ID
WAK-006-001	P21_10Aug06_03	3,000	Hydrogen	possible water

ATTACHMENT C

ATTACHMENT C

Item Recommended for Local Disposition

The following item was recommended for Local Disposition:

WAK-06-001

ATTACHMENT D

Matériel Assessment Data Sheet

GMID: WAK-06-001

Conference Date: 08/11/2006

A. MUNITION DATA

Bomb, 100lb, M47

B. HISTORICAL DATA

When Found: 08/01/2006

Where Found: Ft. Wainwright, Alaska

History:

C. PACKAGING INFORMATION

Overpack Type: MRC multiple round con Packaging Material: vermiculite

D. ASSESSMENT DATA**D1. RADIOGRAPHIC TECHNIQUES**

<i>Date:</i>	<i>X-Ray ID:</i>	<i>X-Ray Techniques:</i>
08/08/2006	WAK-06-001_A	, KeV: KeV, mA: mA, STFDist:
08/08/2006	WAK-06-001_B	, KeV: KeV, mA: mA, STFDist:
08/08/2006	WAK-06-001_C	, KeV: KeV, mA: mA, STFDist:
08/08/2006	WAK-06-001_D	, KeV: KeV, mA: mA, STFDist:

D2. PINS TECHNIQUES

<i>Date:</i>	<i>PINS Spectrum Id:</i>	<i>PINS Duration:</i>
08/10/2006	P21_10Aug06_00	1000
08/10/2006	P21_10Aug06_01	1000
08/10/2006	P21_10AUG06_02	2000
08/10/2006		3600

E. MATERIEL ASSESSMENT REVIEW BOARD INTERPRETATION**E1. RADIOGRAPHIC INTERPRETATION**

<i>Date:</i>	<i>MARB X-Ray Interpretation:</i>
08/11/2006	10% liquid fill, unfuzed, no energetics Energetics: No

E2. PINS INTERPRETATION

<i>Date:</i>	<i>MARB PINS Interpretation</i>
08/11/2006	Strong hydrogen; possible water, not CWM

F. MATERIEL ASSESSMENT REVIEW BOARD RECOMMENDATION

<i>Date:</i>	<i>Recommendation:</i>
08/11/2006	Local Disposition

G. DISPOSITION

<i>Date:</i>	<i>Recommended Disposition:</i>	<i>final_disposal_method:</i>	<i>Destroyed:</i>
08/11/2006	LD		

Friday, August 11, 2006

Material Assessment Data Sheet

GMD: WAK-06-001

Conference Date: 08/11/2006

Recommended for CWC:

Declared Under CWC:

When:

Friday, August 11, 2006

Appendix C
Military Munitions Related Terms and Definitions, Defined by DOD

Military Munitions Related Terms and Definitions, Defined by DOD

Discarded Military Munitions (DMM): Military munitions that have been abandoned without proper disposal or removed from storage from a military magazine or other storage area for the purpose of disposal. The term does not include unexploded ordnance, military munitions that are being held for future use or planned disposal, or military munitions that have been properly disposed of, consistent with applicable environmental laws and regulations. (10 U.S.C. 2710(e)(2))

Disposal: End of life tasks or actions for residual materials resulting from demilitarization or disposition operations.

Explosive Ordnance Disposal (EOD): The detection, identification, on-site evaluation, rendering safe, recovery, and final disposal of unexploded ordnance and other munitions that have become an imposing danger, for example, by damage or deterioration.

Explosive Ordnance Disposal Personnel: Military personnel that have graduated from the Naval School Explosive Ordnance Disposal; are assigned to a military unit with a Service-defined EOD mission; and meet Service and assigned unit requirements to perform EOD duties. EOD personnel have received specialized training to address explosive and certain CA hazards during both peacetime and wartime. EOD personnel are trained and equipped to perform Render Safe Procedures (RSP) on nuclear, chemical, and conventional munitions and on improvised explosive devices (IEDs).

Military Munitions: Military munitions means all ammunition products and components produced for or used by the arms forces for national defense and security, including ammunition products or components under the control of the Department of Defense, the Coast Guard, the Department of Energy, and the National Guard. The term includes confined gaseous, liquid, and solid propellants; explosives, pyrotechnics, chemical and riot control agents, smokes, and incendiaries, including bulk explosives, and chemical warfare agents; chemical munitions, rockets, guided and ballistic missiles, bombs, warheads, mortar rounds, artillery ammunition, small arms ammunition, grenades, mines, torpedoes, depth charges, cluster munitions and dispensers, demolition charges; and devices and components thereof.

Munitions and Explosives of Concern (MEC): This term, which distinguishes specific categories of military munitions that may pose unique explosives safety risks means: (A) Unexploded Ordnance (UXO), as defined in 10 U.S.C. 101(e)(5); (B) Discarded Military Munitions (DMM), as defined in 10 U.S.C. 2710(e)(2); or (C) Munitions Constituents (MC) (e.g., TNT, RDX), as defined in U.S.C. 2710(e)(3), present in high enough concentrations to pose an explosive hazard.

Munitions Debris: Remnants of munitions (e.g., fragments, penetrators, projectiles, shell casings, links, fins) remaining after munitions use, demilitarization, or disposal.

Range-Related Debris: Debris, other than munitions debris, collected from operational ranges or from former ranges (i.e., target debris, military munitions packaging and crating material).

Technical Escort Unit (TEU): A DoD organization manned with specially trained personnel that provide verification, sampling, detection, mitigation, render safe, decontamination, packaging, escort and remediation of chemical, biological and industrial devices or hazardous material.

Unexploded Ordnance (UXO): Military munitions that (A) have been primed, fuzed, armed, or otherwise prepared for action; (B) have been fired, dropped, launched, projected, or placed in such a manner as to constitute a hazard to operations, installations, personnel, or material; and (C) remain unexploded whether by malfunction, design, or any other cause. (10 U.S.C. 101(e)(5)(A) through (C))

UXO-Qualified Personnel: Personnel who have performed successfully in military EOD positions, or are qualified to perform in the following Department of Labor, Service Contract Act, Directory of Occupations, contractor positions: UXO Technician I (UXOT1), UXO Technician II (UXOT2), UXO Technician III (UXOT3), UXO Safety Officer (UXOSO), UXO Quality Control Specialist (UXOQCS), or Senior UXO Supervisor (SUXOS).