Ricochet Area Munitions Response Site Remedial Design and Action

23 April 2014
Overview

- Summary of Record of Decision
- Remedial Design
- Remedial Action
- Schedule
Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Military Munitions Response Program (MMRP) Flow Chart

**CERCLA**
- Preliminary Assessment
- Site Inspection
- Remedial Investigation
- Feasibility Study

**GOALS**
- Identify Releases
- Needing Further Investigation
- Characterize Site, Risk Assessment

**Note:** CERCLA activities after Remedial Investigation contingent upon risk evaluation

**Proposed Plan**
- Public Comment
- Decision Document

**Propose Preferred Remedy**
- Public Participation
- Authorize Selected Remedy

**Remedial Design**
- Design/Work Plan for Remedy

**Remedial Action**
- Implement Chosen Remedy

Current Stage of MMRP Work Contracted to WESTON
CERCLA Timeline

- **2003 - Closed, Transferred, and Transferring Inventory**
  - Ricochet Area Munitions Response Site deemed Military Munitions Response Program eligible

- **2007 & 2008 - Site Inspection**
  - 2007 - Historical Records Review
  - 2008 - Final Site Inspection Report
  - Recommends further assessment of munitions and explosives of concern (MEC) and munitions constituents as part of a remedial investigation
2011 - Remedial Investigation

- Field work conducted during Spring 2010

- Ricochet Area munitions response site footprint delineated to 3,262 acres

- 1,334 acres of the munitions response site identified as having a high probability for encountering MEC and munitions debris
CERCLA Timeline

- 2012 - Feasibility Study
  - Identified the preferred alternative
    - Alternative 4 - Focused Surface and Subsurface Removal of MEC with Containment and Controls

- 2012 - Proposed Plan
  - Public notice/comment period
    7 June to 6 July 2012
  - Public Meeting 21 June 2012
CERCLA Timeline

• 2013 - Record of Decision
  - Documents the selected remedy: Alternative 4
    • Focused Surface Removal (1,334 acres)
    • Surface and Subsurface Removal (11 acres)
    • Containment and Controls (Land use controls)
Remedial Design

- Ricochet Area Munitions Response Site (3,262 aerial acres)
- Surface Removal Area
- Highest Probability of MEC and Munitions Debris (1,334 aerial acres)
- Subsurface Removal
- Herbaceous Openings
- Containment and Controls (Land Use Controls)

FORT INDIANTOWN GAP INSTALLATION

0 3,250 6,500
Feet

12P-1333-7
Remedial Design - Objectives

• Reduce explosive safety hazards and ensure protection of human health, public safety, and the environment

• Minimize exposure to:
  – The public while maintaining access for recreational activities
  – Pennsylvania Game Commission personnel and contractors
Remedial Design - Planning

• Explosives Safety Submission
  – February 2013

• Final Remedial Design Work Plan
  – January 2014

• Final Land Use Controls Implementation Plan
  – January 2014

• Final Updated Community Relations Plan
  – March 2014
Remedial Action

- **Surface removal action**: Removal of exposed or partially exposed MEC across 1,334 acres of the munitions response site

- **Subsurface removal action**: Removal of surface and subsurface MEC across 11 acres of the Cold Spring and Yellow Spring Herbaceous Openings

- **Containment and Controls**: Land use controls
Remedial Action - Survey

- Perform boundary surveys to define each removal action area
- Establish grid system across each removal action area for navigation and quality control
Remedial Action - Surface Removal

- Unexploded ordnance technicians will perform this work
- Utilize magnetometers to support MEC and munitions debris detection
- Complete full coverage surveys
- Remove exposed and partially exposed MEC and munitions debris that are either visible or under leaf litter
Remedial Action - Surface Removal

Exhibit 2
Surface Removal Action Areas
Fort Indiantown Gap, Annville, PA.

Legend
- FIG Installation Boundary
- Roads
- Trails
- Moderate Terrain
- Steep Terrain
- Yellow Spring Herbaceous Opening
- Cold Spring Herbaceous Opening
- Surface Removal Action Area Boundaries
- Low Lying Areas

Note: The acreage represented in this figure are aerial acres

Source: PAUSGS 7.5 minute Topographic Maps, 1996
Removal Action - Subsurface Removal

- Digital geophysical surveys to detect MEC and munitions debris in the subsurface
- Full coverage surveys have been performed across both herbaceous openings
- Process and analyze geophysical data to select individual anomalies and potential burial pits
- Locate and dig to investigate anomalies
Removal Action - Explosives Safety

• Work will be performed in accordance with the Final Remedial Action Work Plan and Explosives Safety Submission

• Exclusion zones will be established during subsurface investigations and MEC demolition

• MEC will be destroyed using engineering controls (sand bags or soil cover)

• Munitions debris will be segregated, managed, and recycled
Containment and Controls / Land Use Controls

- Signs
- Brochure/Awareness Bulletin
- Awareness Video

FOR YOUR INFORMATION

POTENTIAL MUNITIONS

What do I do if I find munitions or a suspicious item?

FOLLOW THE 3Rs OF EXPLOSIVES SAFETY

- Recognize: Munitions are dangerous
- Retreat: Do not touch, move, or disturb item
- Report: Call 911 with description and location of item

MUNITIONS CONCERNS

SAFETY INFORMATION YOU SHOULD KNOW

75 mm Projectile

155 mm Projectile

75 and 155 mm Projectiles

Public Awareness

The Ricohet Area Munitions Response Site is located within State Game Lands 211. Munitions may be present due to historical training activities conducted at Fort Indiantown Gap. Munitions pose an explosive hazard if touched, moved, or disturbed.

If you see munitions or a suspicious item, follow the 3Rs: Recognize, Retreat, and Report.

For More Information:

U.S. Army Corps of Engineers
National Guard
State Police
Pennsylvania Game Commission

1-800-634-0888
717-861-8800
815-323-2130
After Action Report

- Project activities and operations
- MEC removal action results
- Quality control activities and results
- Dig sheet data
- MEC disposition/accountability records
Schedule

- Survey – February through April 2014
- Surface Removal – Start mid-May 2014 through July 2014
- Subsurface Removal – July 2014
- Report – Fall 2014
The United States Army Presents

Sergeant Woof

PROTECT yourself and family, friends and community. LEARN and FOLLOW the 3Rs

RECOGNIZE: Realize that you may have found ammo
RETREAT: Do not touch, move or disturb ammo—carefully leave the area, but do not run
REPORT: Tell a parent or other adult to call 911

https://www.denix.osd.mil/uxosafety
Helpful Information

• Who do I contact with questions and concerns?

  – For more information regarding the Ricochet Area Munitions Response Site contact:

    Major Angela King-Sweigart  
    Deputy State Public Affairs Officer  
    Pennsylvania National Guard  
    Fort Indiantown Gap  
    Phone: (717) 861-8829  
    E-mail: angela.s.kingsweigart.mil@mail.mil

• What if I see a potential munitions or suspicious item?

  – Follow the 3 R’s – Recognize, Retreat, Report to 911.

• How is this project going to impact my use of State Game Lands 211?

  – The project will be performed during the work week. Exclusions zones need to be maintained during field work. Schedules will be maintained and coordinated to reduce impacts to hunting and other recreational activities.
Fort Indiantown Gap, Pennsylvania
Military Munitions Response Program

Questions?