Brief Overview of the
Tobyhanna Artillery Range
Formerly Used Defense Site
(TOAR FUDS)

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U.S. Army Corps of Engineers - Baltimore District

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Location of Site

25,218 acres located in Tobyhanna, PA

Consists of Tobyhanna State Park and State Game Lands 127
Former Military Activities

- 1912 - Army acquired land for military training
- Intensive artillery training during World War II
- 1949 - Land transferred to Commonwealth of PA for State Park and Game Lands
Unexploded Ordnance (UXO) at Site

- UXO consist of 37-mm, 75-mm, and 155-mm high explosive and shrapnel artillery rounds

155-mm High Explosive Projectile
37-mm Projectile
75-mm High Explosive Projectile
Project Partnership and Regulatory Participation

- USACE and PADEP relationship
- Memorandum of Understanding for completion of remedial investigation
- Early involvement of EPA
- PADEP continued focus on public safety
- PADEP urged funding
Timeline of Munitions Response Activities

1998 – TCRA conducted in high-use State Park Campground and Trail Areas

2004 – TCRA conducted in Game Land roadways and trails. USACE conducted several site visits

2004 – PADEP, USACE, and the U.S. Environmental Protection Agency (EPA) worked together to conduct the RI

2005 – Final Feasibility Study Completed

2006 – Proposed Plan presented to Public

2006 – TCRA conducted at MRS-R01 (formerly AOC-1)

2007 – TCRA conducted north of FUDS Boundary

2008 – TCRA conducted in MRS-R02D

2009 – TCRA conducted in MRS-R02D

2010 – Decision Document Signed

TCRA = Time Critical Removal Action
### Amount of UXO Recovered During RI/FS Activities

<table>
<thead>
<tr>
<th>Year</th>
<th>Munitions Response Activity</th>
<th>No. of UXO Recovered</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998</td>
<td>TCRA – State Park Campgrounds and Trails</td>
<td>278</td>
</tr>
<tr>
<td></td>
<td>TCRA – State Game Lands Roadways and Trails</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Site Visit – State Park</td>
<td>3</td>
</tr>
<tr>
<td>2004</td>
<td>Site Visit – State Game Lands</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>RI – State Park</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>RI – State Game Lands</td>
<td>38</td>
</tr>
<tr>
<td>2006</td>
<td>TCRA – MRS-R01 (formerly AOC-1)</td>
<td>44</td>
</tr>
<tr>
<td></td>
<td>TCRA – Transects within areas north of MRS-R01 (Lakeview Estates Community)</td>
<td>2</td>
</tr>
<tr>
<td>2007</td>
<td>TCRA conducted north in local community north FUDS boundary.</td>
<td>2</td>
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<tr>
<td></td>
<td>TCRA – West of MRS-R01</td>
<td>0</td>
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<tr>
<td>2008</td>
<td>TCRA – MRS-R02D</td>
<td>413</td>
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<tr>
<td>2009</td>
<td>TCRA – MRS-R02B</td>
<td>316</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>1,139</strong></td>
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Remedial Investigation

- UXO recovered in impact areas and buffer zones
- 95% UXO found within 12 inches of the ground surface
- Developed munitions response sites corresponding to impact areas and buffer zones
- MRSs designated as having high, low-moderate or low risk
Stakeholders and the Community

- Formed Technical Review Committee
  - Representatives from Township, County, State & Federal & The Public

- Coordinated closely State Park and Game Land officials to coordinate work efforts – limited interruptions to recreational and maintenance activities

- Public Meetings
Remedial Action Alternatives

Five Remedial Alternatives Developed and Evaluated:

Alt. 1: No Action
Alt. 2: Land Use Controls (LUCs)
Alt. 3: Surface Removal of UXO with LUCs
Alt. 4: Removal of UXO to One Foot with LUCs
Alt. 5: Removal of UXO to Detection Depth with LUCs
Selected Remedies

MRSs with Low or Low-Moderate Risk - $2,659,000

- Alternative 2: Land Use Controls
  - UXO Hazard Warning Signs
  - Community Education
Selected Remedies

MRSs with High Risk - $52,345,000

- Alternative 5: Removal of UXO to Detection Depth
  - Land Use Controls
  - Recurring Reviews
Current Project Status

- Record of Decision signed September 2010
- Remedial Action work to begin in 2011
- 5 to 15 years to complete – depending on available funding