Closed Castner Firing Range Remedial Investigation

Public Meeting
07 November 2017
6:00 – 8:00 PM
Meeting Goals

- Provide information to the community related to the Closed Castner Range project
- Present Remedial Investigation (RI) results and recommendations
- Discuss next steps
- Provide an open forum for questions and answers
Safety Moment

Learn and Follow the 3Rs

- **RECOGNIZE:** The danger that a souvenir munition poses to yourself, your family and your neighbors
- **RETREAT:** Do not disturb, touch or move it. Do not give or throw it away
- **REPORT:** Call 911

LOT 16 CASKNER 4/28/16
- 40 m TPT (4)
- 40 m TPI PRTS (2)
- 37 m TPT (2)
- 240 mm TIP TRACES (8)
- 75 m RUBBER PUMP
- 75 m PRTS (1)
- 5 lbs FRAG

"ALL MAD"
What Was Done in the RI

• The Remedial Investigation:
  • Characterizes/evaluates munitions response site (MRS) conditions
    • Determines the type (nature) and density and distribution (extent) of
      munitions in and on the ground
    • Determines the concentrations and extent of breakdown elements left
      behind
  • Uses Environmental Protection Agency-provided standard calculations and processes to quantify hazards and assess the risk

• What’s next:
  • Development of alternatives
    • To be conducted during the next project phase
  • Future land use decisions
  • Munitions removal / remediation
RI Project Objectives

- Verify boundaries of “concentrated munitions use areas” or CMUAs
- Assess Risks to Human Health, Safety and the Environment
  - Munitions and Explosives of Concern (MEC)
  - Munitions Constituents (MC)
- Collect data needed to develop remedial alternatives for Feasibility Study phase
Focus of the RI

Munitions and Explosives of Concern (MEC)

Munitions Constituents (MC)
Site Overview for RI

Initial CMUA Extents Based on Previous Investigations

Visual Survey for MEC

MEC Investigation: Green

MC Investigation: Pink
MEC Investigation Methods

Visual Survey Transects - Steep Slope Areas

Analog “mag and dig”

Digital Geophysical Mapping

Intrusive Investigation

Visual Survey Transect

Demo Shot for M19 Grenade
MC Investigation Methods

- Incremental Soil Sampling
- Berm Sampling
- Arroyo Soil Sampling
- Seep Surface Water Sampling
- Soil Boring Program
Questions Investigated

- Are the boundaries of the CMUAs correctly identified?
- How much MEC is present inside and outside the CMUAs?
- Are MEC moving from higher to lower elevation areas?
- Are MC present inside the CMUAs? If so, are they present at elevated concentrations?
- Are MC moving off of Castner Range?
Answers!
CMUAs Require Expansion
MEC Transport Does Occur

- Erosion leads to MEC movement from higher to lower elevations
- Occurring at CMUA 23; no evidence of off-post release

Munitions debris (MD) migrating down arroyo toward MRS boundary
6 Areas of Elevated MC

-- Portions of the site which may require a remedy

Incremental Soil Samples

Arroyo Soil Samples
No Off-Post Migration of MC

Soil concentrations at site boundary below assessment levels
RI Findings / Recommendations

- **MEC**
  - CMUA boundaries require expansion
    - Remainder of MRS to be treated as “non-CMUA”
    - Non-CMUAs are *not* MEC free!
  - High MEC risk throughout Castner Range

- **MC**
  - 6 areas potentially pose unacceptable risk in surface soil
  - Surface water, groundwater not impacted
  - Feasibility Study is Required in the Future
Where Do We Go From Here?

- Army will continue to work with the community and other stakeholders to determine future cleanup goals and remedial actions
- Future actions will be focused on safeguarding areas identified for community access where feasible within Castner Range
- Army will consider the community's interests during the Feasibility Study
- After the Feasibility Study, a proposed remedy will become available for public comment
- After public comments have been reviewed and considered, a decision document will be published marking the official selection of the remedial action
CERCLA Process: What’s Next?

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

**COMPLETE**

- Proposed Plan & Decision Document
- Remedial Design
- Remedial Action
- Long Term Monitoring
Feasibility Study

- Develops, screens, and evaluates MEC and MC remedial action alternatives
- Establishes remedial action objectives
- Identifies / screens applicable technologies
- Combines technologies and approaches into remedial alternatives
- Screening and detailed analysis of remedial alternatives
Possible Remedial Alternatives

Some Combination of:

- Land Use Controls
- Surface Clearance
- Subsurface Clearance
- Advanced Geophysical Classification Removals
- Long-Term Monitoring
- Other
Open Discussion
Comments / Question

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Thank You For Attending!!

And Remember:

[Image of logos: OR for Recognize, OR for Retreat, OR for Report]