Military Munitions Response Program
Advanced Geophysical Classification
Office of the Secretary of Defense Perspective

Deb Morefield
Office of the Assistant Secretary of Defense for Energy, Installations, and Environment (OASD(EI&E))
Environment, Safety, and Occupational Health Directorate (ESOH)

M2S2 Webinar Series
February 26, 2015
Introduction and Overview

• Overview
  – Scope of the Military Munitions Response Program (MMRP)
  – Program Status

• Advanced Geophysical Classification Process
  – Senior DoD Leadership Support
  – Technology Transfer Activities

• Next Steps

• Questions?
• There are 38,887 sites in the cleanup program.
  – The remaining cost-to-complete (CTC) for the whole program is approximately $27 billion.

• There are 4,917 Munitions Response Sites (MRSs) in the cleanup program.
  – The remaining CTC for the MMRP is $13 billion.
  – The CTC for Formerly Used Defense Sites (FUDS) is $9.5 billion of the $13 billion.

*Based on end of Fiscal Year 2013 Knowledge-Based Corporate Reporting System Data.
• Response Complete (RC) Goals:
  – Achieve RC by 90% and 95% by the end of Fiscal Year (FY) 2018 and FY 2021, respectively.
  – Excludes MRSs at FUDS properties.

• We’re making good progress – DoD achieved RC at 79% of all sites through the end of FY 2013.

• DoD achieved RC at 56% of all MRSs through the end of FY 2013.
Advanced Geophysical Classification

• Process for determining whether a buried metal object is a military munition.

• Analysts collect high-quality data on detected metallic objects buried in the ground and interpret this data with computer-based models to estimate the size, shape, and other physical attributes of the buried object.

• Analysts use this information to determine whether the buried object is likely a munition or harmless debris.
• Senior DoD leaders support advanced geophysical classification for cleaning up MRSs, where appropriate, because we believe that the technology enables us to do more with less.

• Advanced geophysical classification is a tool in the cleanup toolbox – that may maximize effectiveness while minimizing financial liabilities and the environmental footprint.

• The DoD Manual 4715.20, “DERP Management,” March 9, 2012, provides guidance that supports using technologies that increase overall effectiveness, such as advanced geophysical classification.
Technology Transfer Activities

• DoD began implementing an advanced geophysical classification technology transfer plan last year. Current activities and initiatives focus on:

  1. Identifying, assessing and resolving relevant concerns
  2. Assuring data quality
  3. Defining training needs
  4. Developing an accreditation program
Identify, Assess, and Resolve Concerns

- Surveyed regulators’ and other stakeholders’ to identify concerns and their willingness to support and approve advanced geophysical classification.

- The Munitions Response Dialogue (MRD) discussed the concerns and identified solutions to assist in successfully transitioning advanced geophysical classification to commercial use.

- We are using this information to guide us in developing tools to support transitioning the technology to commercial use.
• Quality Assurance Project Plan (QAPP) ensures consistent data quality through standard quality assurance/quality control.

• The Intergovernmental Data Quality Task Force (IDQTF) is working closely with DoD on developing the advanced geophysical classification QAPP.

• IDQTF conducted an alpha test of the QAPP at the San Luis Obispo FUDS, CA in August 2014.

• IDQTF updated the QAPP based on the alpha test and comments that the DoD, States, and National Association of Ordnance Contractors submitted.

• IDQTF has scheduled the QAPP beta test for Summer 2015 at Buckley Field FUDS, CO and plans to finalize it as a “living document” in Calendar Year (CY) 2015.
Target of Interest (TOI) Library

- DoD is updating the TOI Library and will host it on one of its servers.
- The United States Army Corps of Engineers (USACE) will manage the TOI library on an internal DoD server to maintain quality control.
- USACE plans to update the library every six months, archive older versions of the library, and ensure version control.
- The library will be a government furnished item.
- DoD plans to finish the TOI library in CY 2015.
Defining Training Needs

- Educate and build confidence among regulators
  - Working with the MRD to evaluate current training opportunities and determine what training is necessary to ensure the success of advanced geophysical classification.
    - Hosted a field observation using the advanced geophysical classification technology at the San Luis Obispo FUDS to identify training needs and quality control concerns.
    - Preparing a matrix of existing training opportunities that cover advanced geophysical classification.
      - Will update the matrix regularly.
      - Let DoD leadership know of specific training you think is necessary for the successful use of advanced geophysical classification.
Accreditation Program

- DoD is establishing an advanced geophysical classification accreditation program to ensure contractors perform quality work.

- The DoD Advanced Geophysical Classification Accreditation Program:
  - Is a unified DoD program through which organizations implementing advanced geophysical classification can demonstrate competency and document conformance to a set of requirements defined by DoD.
  - Will use third-party Accreditations bodies.
  - Will promote the collection of known and documented quality advanced geophysical classification data, which will be acceptable for contract fulfillment and to regulators.
Next Steps

• We are focusing on the following steps to expedite transition of advanced geophysical classification.

  – Establish the tools necessary to support transition of advanced geophysical classification to commercial use.
    • Finalize the TOI Library.
    • Conducting a beta test and finalizing the QAPP.
    • Standing up the advanced geophysical classification accreditation program.

  – Continue supporting the MRD and other education and outreach efforts.
    • Communicate information on advanced geophysical classification.
    • Stakeholder buy-in.
    • Feedback from the regulatory community.
QUESTIONS?

Deb Morefield
OASD(EI&E)/ESOH
Deborah.a.morefield.civ@mail.mil