

Topic 2: Characterization, Control, and Treatment of Testing and Training Range Contamination

Objective

Treatment and control technologies are sought that specifically address the remediation or containment of range-related contaminants and residue such as metals, energetics (RDX, HMX, TNT, DNT, picric acid), propellants such as perchlorate, or mixtures containing these contaminants in soils. Remedial and control technologies that allow for continued range operation during technology implementation, are deployable over large areas, or can serve to sustain areas subject to continued use are of interest. Of particular interest is understanding the long-term protectiveness of natural or engineered reductions in bioavailability of contaminants of concern.

Background

Sustaining test and training ranges is essential to meet DoD's responsibility to ensure adequately trained personnel and properly tested equipment. It is essential to restore and sustain the environment on these ranges in such a way as to allow continued long-term use of these ranges for military testing and training. Test and training ranges present unique challenges for characterization, control and treatment technologies. They may encompass thousands of acres, have limited historical records, and are subject to continued use, which may result in introducing additional contamination.

Management tools and technologies are sought to cost effectively and more accurately delineate munitions constituent source zones and contaminant loading on test and training ranges. Technologies that account for the difficulties of sampling on operational ranges are of particular interest. In addition, management tools or technologies are sought that address soil and groundwater contamination emanating from these source zones, in terms of effective monitoring, sentinel systems, and/or improved exposure assessments.

Proposed technologies should have completed all required laboratory work, although site-specific treatability work prior to the field demonstration is acceptable. Specific DoD site(s) may be suggested in the pre-proposal but are not required. ESTCP supports demonstration at a scale sufficient to determine the operational performance of the characterization, control or treatment technology and to estimate its expected full-scale costs.

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