U.S. Army Corps of Engineers
Engineer Research and Development Center
Environmental Laboratory

Training Range Environmental Evaluation and Characterization System (TREECS)

Description of Technology **TREECS** is being developed for the Army with varying levels of capability to forecast the fate and risk of munitions constituents (MC), such as high explosives (HE), within and transported from firing/training ranges to surface water and groundwater. The overall objective is to provide the range manager with tools to assess range management strategies to meet environmental compliance goals. Tier 1 and Tier 2 tools allow range managers or their environmental staff to assess whether or not there is potential for MC migration off the installation to surface water and/or groundwater with MC concentrations exceeding protective health benchmarks at receptor locations. TREECS can also be applied to non-military sites to assess migration of contaminants of concern.

Benefits TREECS helps with avoidance of range down time due to EQ issues and provides a quantifiable linkage of range or land use to environmental quality and risk so ranges/lands can be operated as manageable resources.

Significant Accomplishments Tiers 1 and 2 have been developed and fielded to provide rapid and reliable forensic and predictive assessment of MC/contaminant migration and risk.

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