



NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND TECHNOLOGY TRANSFER UPDATE

Issue 220: February 8, 2023

Department of Defense (DoD) Webinar on Per- and Polyfluoroalkyl Substances (PFAS) Leaching and Mobility at Aqueous Film Forming Foam (AFFF)-Impacted Sites

The DoD hosts live webinars on key research results from the Strategic Environmental Research and Development Program (SERDP) and the Environmental Security Technology Certification Program (ESTCP). Join SERDP and ESTCP on Thursday, February 23 for a webinar featuring DoD-funded research efforts to quantify PFAS leaching at AFFF-impacted sites. The first part of the webinar will cover efforts to develop and optimize a standard PFAS leaching assessment methodology. The second part of the webinar will discuss research into the relationship between PFAS concentrations measured in soil and those measured in porewater with the ultimate goal of facilitating site management.

To view speakers' biographies and to register for this free webinar, please visit:
<https://serdp-estcp.org/webinars/details/d9070325-fd99-4130-9906-99d527d5a67f/02-23-2023>

DoD Monitored Natural Attenuation (MNA) Rate Constant Estimator User's Guide and Tool

The DoD has developed a new screening tool to simulate the natural attenuation of dissolved compounds in groundwater. The tool helps to evaluate historical monitoring data and to develop lines of evidence supporting MNA as a viable remedial approach. The model is programmed in a spreadsheet format and a User's Guide provides helpful instructions. The tool incorporates key fate and transport mechanisms and various biotransformation processes. The following modules are included:

- Solute transport of 1,4-dioxane with biotransformation via an oxidative pathway,
- Solute transport of chlorinated ethenes with biotransformation modeled as a sequential first order reductive dechlorination process, and
- Solute transport of chlorinated ethanes with two different degradation pathways including reductive dichlorination or an abiotic process.

The MNA Rate Constant Estimator Tool was developed under the DoD ESTCP as part of Project Number ER-201730.

View the DoD ESTCP research and download the User's Guide and Tool at the link below:

<https://www.serdp-estcp.org/projects/details/bd9c56ae-002e-40fc-88cf-4a9c8566de93/er-201730-project-overview>

More information about NAVFAC Technology Transfer

Email: EXWC_T2@navy.mil

Website: <https://exwc.navfac.navy.mil/go/erb>

About This Email

This email supports the NAVFAC Environmental Restoration Program by providing the latest information on policy, guidance, and training related to innovative technologies. Links are provided to Technology Transfer (T2) resources and tools. Our goal is to promote the use of innovative technologies, remove barriers to implementing new technologies, and reduce cleanup costs, while remaining protective of the environment and human health.

Subscribe: <https://lp.constantcontactpages.com/su/jV5mX1H>