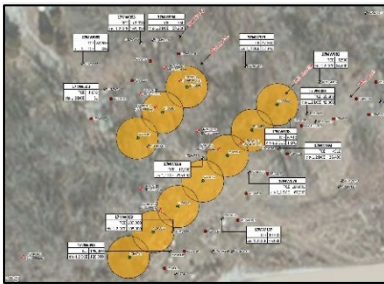


TECHNOLOGY TRANSFER (T2) UPDATE

Issue 238: August 2024

NAVFAC Open Environmental Restoration Resources (OER2) Webinar: Tools for Enhancing Reagent Delivery to Address Matrix Diffusion in Low-Permeability Geologic Matrices

Please join us for the upcoming OER2 webinar on tools for enhancing reagent delivery in low-permeability geologic matrices. Contaminants released to the subsurface can diffuse into low-permeability geologic matrices and become a persistent source of groundwater contamination over the long-term, sustaining contaminant plumes via back diffusion. In situ remediation in these types of settings can be challenging because the low permeability of the geologic matrix impedes effective delivery of in situ treatment agents. Fortunately, a variety of innovative injection and delivery technologies have been developed to enhance delivery of in situ treatment agents in these low permeability settings. This presentation will provide an overview of four technologies to enhance reagent delivery in situ: electrokinetics (EK); hydraulic fracturing; soil mixing; and permeable reactive columns. Case studies will be presented that illustrate design and implementation of these technologies at U.S. Department of Defense sites.



Topic: Tools for Enhancing Reagent Delivery to Address Matrix Diffusion in Low-Permeability Geologic Matrices

Presenters: Neal Durant (Geosyntec Consultants, Inc.)

Date: Wednesday, August 21, 2024

Time: 2 PM ET

To register, please use the link below:

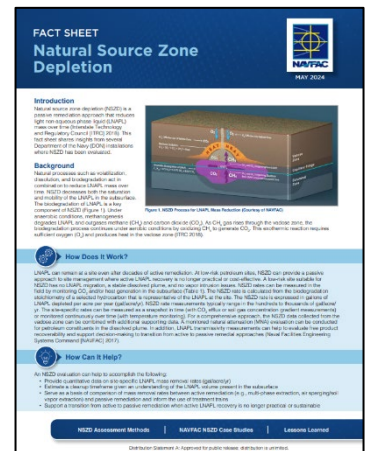
<https://einvitations.afit.edu/inv/anim.cfm?i=902887&k=0B6140017350>

NAVFAC Natural Source Zone Depletion Fact Sheet

Light non-aqueous phase liquid (LNAPL) can remain at a site even after decades of active remediation. At low-risk petroleum sites, natural source zone depletion (NSZD) can provide a passive approach to site management where active LNAPL recovery is no longer practical or cost-effective. For NSZD, natural processes such as volatilization, dissolution, and biodegradation act in combination to reduce LNAPL mass over time, decreasing both its saturation and mobility in the subsurface. This fact sheet shares insights from several Department of the Navy installations where NSZD has been evaluated.

To view this fact sheet, please use the link below:

https://exwc.navfac.navy.mil/Portals/88/Documents/EXWC/Restoration/er_pdfs/nl/NSZD_FactSheet_2024.pdf?ver=O5PutphflPst7j8PajJT1Q%3d%3d



This email has been prepared by the NAVFAC EXWC Environmental Restoration Division

Please connect with the T2 Team:

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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 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 human health and the environment.