

This e-mail is supported by NAVFAC's Alternative Restoration Technology Team (ARTT) to provide links to Technology Transfer (T2) tools and the latest information on policies, guidance, and training related to innovative technologies. The T2 topics highlighted in this issue will help support the ARTT's chartered goals of promoting the use of innovative technologies, removing barriers to implementing new technologies, and reducing cleanup costs, while remaining protective of the environment and human health.

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Special Announcements

****ATTENTION****

Please bookmark our new NAVFAC Environmental Restoration and BRAC (ERB) Web site!

http://www.navfac.navy.mil/navfac_worldwide/specialty_centers/exwc/products_and_services/ev/erb.html

****SAVE THE DATES****

The Remediation Innovative Technology Seminar (RITS) is coming! Information will be posted on the ERB Web site and will be announced in next month's T2 email. The locations and dates are as follows:

- 28-29 April: Washington DC
- 30 Apr- 1 May: Jacksonville, FL
- 12-13 May: San Diego, CA
- 14-15 May: Silverdale, WA
- 28-29 May: Pearl Harbor, HI
- 3-4 June: Norfolk, VA

Matrix Diffusion Toolkit

Contaminated groundwater sites can have heterogeneous geology with varied media such as interbedded clays and sands. This can result in a complex distribution of contaminants within the subsurface. As the groundwater plume is remediated, the low-permeability zones (e.g., clays) can continue to serve as an indirect source of contamination via matrix diffusion. This occurs because contamination continues to emanate via diffusion from the stored contamination in the immobile porosity. This process can occur within the source zone or in the downgradient plume. The Department of Defense (DoD) Environmental Security Technology Certification Program (ESTCP) has released a Matrix Diffusion Tool Kit to assess the impact of this process on a given site. The tool kit can be used to develop a conceptual site model and to determine if the matrix diffusion process would be expected to impact a given groundwater site. The Matrix Diffusion Tool Kit uses a simplified conceptual model of a two-layer aquifer system to estimate mass discharge in the transmissive zone and contaminant mass in the low-permeability zone. The User's Guide and software can be downloaded at the link below.

Matrix Diffusion Tool Kit

<http://www.serdp.org/Program-Areas/Environmental-Restoration/Contaminated-Groundwater/Persistent-Contamination/ER-201126>

For questions or more information, please contact EXWC_T2@navy.mil