



TechDirect, April 1, 2025

Welcome to TechDirect! Since the March 1 message, TechDirect gained 211 new subscribers for a total of 44,341. If you feel the service is valuable, please share TechDirect with your colleagues. Anyone interested in subscribing may do so on CLU-IN at <https://clu-in.org/techdirect>. All previous issues of TechDirect are archived there. The TechDirect messages of the past can be searched by keyword or can be viewed as individual issues.

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TechDirect's purpose is to identify new technical, policy and guidance resources related to the assessment and remediation of contaminated soil, sediments and groundwater.

Mention of non-EPA documents or presentations does not constitute a U.S. EPA endorsement of their contents, only an acknowledgment that they exist and may be relevant to the TechDirect audience.

> Announcements

ITRC Accepting 2026 Project Team Proposals. The Interstate Technology & Regulatory Council (ITRC) is now accepting proposals for new Project Teams to launch in 2026. Agencies, organizations, companies, or individuals are invited to submit a Project Team proposal that will address any environmental topic. The deadline to submit a proposal is May 27, 2025. For more information, see <https://itrcweb.org/submit-proposals/>.

EMRTAI Quarterly Stakeholder Meeting. The Environmental Monitoring and Remediation Technology Assessment Initiative (EMRTAI) Stakeholder Group meets quarterly and is always open to membership and participation by interested stakeholders in all aspects of mining and legacy mine site remediation. The next EMRTAI Quarterly Stakeholder Meeting will take place on Tuesday, May 20, 2025. Please register and join the meeting to hear an update on the progress of the Group 1 technology assessments and contribute to planning for future assessments. For more information and to register, see <https://events.teams.microsoft.com/event/316c3715-a56f-493e-9392-be9d3f1db12c@2dd732a6-0413-473f-a1ce-68d1616444b6>.

> Upcoming Live Internet Seminars

Tips and Tricks to Improve Groundwater Remedy Selection and Performance - Wednesday, April 2, 2025, 1:00PM-2:30PM EDT (17:00-18:30 GMT). Performance data for treatment technologies such as permeable reactive barriers, chemical oxidation, and chemical or biological reductive dechlorination suggests there are factors that may

consistently impact the effectiveness of groundwater remediation at sites with volatile organic contamination. Aquifer and remedy geochemistry, site characterization, and implementation issues are factors that have impacted groundwater remedy performance at a number of sites. After illustrating these performance factors through case studies, we will cover tips and tricks that can be used to increase the likelihood of a successful groundwater remedy. For more information and to register, see <https://www.clu-in.org/live>.

Framework for Investigating Asbestos-Contaminated CERCLA Sites (Parts 1 and 2) - Tuesday, April 15, 2025, 1:00PM-3:00PM EDT (17:00-19:00 GMT) and Wednesday, April 16, 2025, 1:00PM-3:00PM EDT (17:00-19:00 GMT). This virtual training will discuss the updated Framework for Investigating Asbestos-Contamination at Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Sites (released in 2021). By taking this training, participants will learn how to better assess exposure and risk from asbestos and consider unique scientific and technical issues associated with the investigation of human exposure and risk from asbestos. The training modules will discuss specific strategies that are based on the best currently available science as well as methods for characterizing exposure and risk from asbestos to inform risk-management. For more information and to register, see <https://www.clu-in.org/live>.

ITRC: Introduction to Hydrocarbons Training - Thursday, April 17, 2025, 1:00PM-3:00PM EDT (17:00-19:00 GMT). Petroleum is a complex mixture of many compounds. Regulatory and technical guidance documents commonly focus on the hydrocarbon components of that mixture, or perceived risks that they present. However, focusing on a specific area of concern often causes practitioners to overlook other aspects of a release. For example, concerns related to exposure to total petroleum hydrocarbons (TPH) risks may be overlooked while pursuing concerns related to light non-aqueous phase liquid (LNAPL) recovery or petroleum vapor intrusion (PVI). This class is designed to provide a basic overview of hydrocarbon behavior in the subsurface and how to scientifically assess concerns arising from the release of petroleum products into the environment. It will highlight key issues that help identify and manage TPH, LNAPL, and PVI risks together. For more information and to register, see <https://www.itrcweb.org> or <https://www.clu-in.org/live>.

ITRC Sediment Cap Chemical Isolation Training - Tuesday, April 22, 2025, 1:00PM-3:00PM EDT (17:00-19:00 GMT). In 2023, ITRC published the Sediment Cap Chemical Isolation Guidance to supplement the 2014 Contaminated Sediments Remediation Guidance with the goal of improving consistency in sediment cap performance outcomes. Sediment capping is a commonly selected remediation approach and numerous designs have been completed. Previous cap designs have been evaluated in multiple ways, and these varying approaches have led to some differences in selection of chemical design criteria, construction tolerance specifications, and monitoring/maintenance objectives for sites with similar characteristics and contaminants, leading to different expectations for long-term performance and reliability. The Sediment Cap Chemical Isolation Training will cover several key elements of the recommended framework. For more information and to register, see <https://www.itrcweb.org> or <https://www.clu-in.org/live>.

Economic Prosperity and Community Growth Through Superfund Redevelopment - Wednesday, April 23, 2025, 1:00PM-2:00PM EDT (17:00-18:00 GMT). The EPA Superfund Redevelopment Program's mission is to protect human health and the environment and promote the reuse of Superfund sites. Restoring these once-contaminated properties to productive use revitalizes local economies and prioritizes economic prosperity, spurring new jobs, business growth, tax revenues, spending and new amenities for communities. This webinar showcases the economic benefits of Superfund Redevelopment for communities across the country. Participants will hear about the most up-to-date economic numbers and success stories. They will also learn about tools used at Superfund sites to ensure that reuse projects meet local needs and

reflect community priorities, as part of restoring the greatness of the American economy. For more information and to register, see <https://www.clu-in.org/live>.

ITRC PFAS Beyond the Basics: PFAS Fate and Transport, Site Characterization and Source ID Training - Thursday, April 24, 2025, 1:00PM-3:00PM EDT (17:00-19:00 GMT). This training class builds on the earlier information for fate and transport and site characterization presented in the PFAS 101 CLU-IN training. It provides more in-depth information for fate and transport, site characterization, source identification and some introductory information on environmental forensics. These topics will be presented along with options and a framework for data visualization. This training will focus largely on PFAS fate and transport in groundwater. The goal is to provide detailed information about the inputs practitioners can use to develop a robust conceptual site model to help understand fate and transport at PFAS sites, and how to gather evidence of multiple sources. For more information and to register, see <https://www.itrcweb.org> or <https://www.clu-in.org/live>.

Military Munitions Support Services (M2S2) - Sessions from the STAND DOWN - Remedial Actions - Tuesday, April 29, 2025, 1:00PM-3:00PM EDT (17:00-19:00 GMT). M2S2 will be presenting three webinars in FY25, titled "Sessions from the STAND DOWN" highlighting presentations from the FY25 M2S2 Stand Down hosted by US Army Corps of Engineers (USACE) in December 2024. These online events will bring together USACE, DoD leaders, federal land managers, state and federal regulators and contractors to discuss munitions response cleanup issues and initiatives. Presenters and attendees will discuss programmatic information, and share lessons learned to foster strong working relationships. The first webinar in this series will focus on Remedial Actions. For more information and to register, see <https://www.clu-in.org/live>.

Groundwater Modeling and Complexity of PFAS Modeling - Wednesday, April 30, 2025, 1:30PM-2:30PM EDT (17:30-18:30 GMT). This presentation will cover fundamental concepts on groundwater fate and transport modeling along with examples of different models. Additionally, the complexity of modeling leaching of PFAS compounds in subsurface will be presented. For more information and to register, see <https://www.clu-in.org/live>.

ITRC: Overview of the Tire-Derived Chemicals 6PPD & 6PPD-quinone Training - Thursday, May 1, 2025, 1:00PM-2:30PM EDT (17:00-18:30 GMT). In October 2024, ITRC released the 6PPD & 6PPD-quinone Guidance Document to provide environmental professionals and communities with information about the current science and regulatory framework of 6PPD and 6PPD-quinone (6PPD-q). 6PPD-q is a contaminant of emerging concern and is a transformation product of the tire anti-degradant (6PPD), an antiozonant used in tires. This ITRC training course provides a basic overview of the science and policy measures surrounding the Tire Anti-Degradants 6PPD and 6PPD-q. Attendees will gain insight into the current state of knowledge on topics such as: background and use of 6PPD in tires, toxicity in aquatic species and humans; occurrence, fate, and transport; measuring, mapping, and sampling; mitigation measures; and policy, regulations, and laws. For more information and to register, see <https://www.itrcweb.org> or <https://www.clu-in.org/live>.

> New Documents and Web Resources

Technology Innovation News Survey Corner. The Technology Innovation News Survey contains market/commercialization information; reports on demonstrations, feasibility studies and research; and other news relevant to the hazardous waste community interested in technology development. Recent issues, complete archives, and subscription information is available at <https://clu-in.org/products/tins/>. The following resources were included in recent issues:

- Analysis of Factors Affecting Plume Remediation in a Sole-Source Aquifer System, Southeastern Nassau County, New York
- Coal Ash Beneficial Use at Savannah River Site
- Collection of Samples From Porous Surfaces Using Microvacuum Techniques for the Detection of Microbiological Agents - Revision 1.0
- Point of Entry Treatment for Drinking Water
- In-Situ Thermal Remediation

EUGRIS Corner. New Documents on EUGRIS, the platform for European contaminated soil and water information. More than 3 resources, events, projects and news items were added to EUGRIS in March. These can be viewed at <http://www.eugris.info/whatsnew.asp> . Then select the appropriate month and year for the updates in which you are interested.

> Conferences and Symposia

2025 ITRC Annual Meeting - 30th Anniversary, April 7-10, 2025, Kansas City, MO.

Come celebrate ITRC's 30th Anniversary! ITRC is hosting their 2025 Annual Meeting in Kansas City, Missouri. Join the ITRC Project Teams for working sessions, participate in their welcome reception and plenary sessions, and network with the entire ITRC community and partners. To learn more and register, please visit

<https://itrcweb.org/2025-annual-meeting/>.

AquaConSoil 2025, June 16-20, 2025, Liege, Belgium.

AquaConSoil 2025 offers a series of technical sessions, with each full conference day beginning with a plenary session featuring expert keynotes and panel discussions tailored to scientific and engineering professionals. Beyond these sessions, participants can enjoy field-specific excursions, advanced courses, and an exhibition with around 30 industry-focused exhibitors. For more information, please visit <https://aquaconsoil.com/aquaconsoil2025/>

2025 Environmental Measurement Symposium, August 4-8, 2025, St Louis, MO.

Organized by The NELAC Institute (TNI), the 2025 Environmental Measurement Symposium is a combined meeting of the National Environmental Monitoring Conference (NEMC) and the Forum on Environmental Accreditation. It is the largest conference focused on environmental measurements in North America, and this year is planned as an in-person event for the week of August 4, 2025 in St. Louis, MO. This year's Symposium theme is Building a Quality Culture as the Foundation for Reliable Data. For more information, please visit <https://www.envirosymposium.group/>.

Call for Abstracts for 2025 Tribal Lands and Environment Forum, August 18-21, 2025, Minneapolis, MN and Online.

The Tribal Lands and Environment Forum (TLEF) is a joint effort between the Institute for Tribal Environmental Professionals (ITEP), the Tribal Waste and Response Steering Committee (TWAR SC), and US EPA's Office of Land and Emergency Management (OLEM) Topics for presentations should be related to TLEF's primary media: brownfields, underground storage tanks, Superfund sites and federal facilities, waste management and minimization, and emergency response. TLEF will also welcome proposals dealing with emerging contaminants, emerging technologies, habitat restoration, and indigenous justice in waste and response work. Deadline for submissions is Friday, May 16, 2025. For more information, please visit <https://sites.google.com/view/tlef2025/home>

2025 National Brownfields Training Conference, August 5-8, 2025, Chicago, IL.

The National Brownfields Training Conference is the largest event in the nation focused on environmental revitalization and economic redevelopment. Held every two years, the National Brownfields Conference attracts over 2,000 stakeholders in brownfields

redevelopment and cleanup to share knowledge about sustainable reuse and celebrate the EPA brownfields program's success. For more information, please visit <https://aobrownfields.org/>.

RemTech Europe 2025, September 15-19, 2025, Ferrara, Italy. RemTech Europe is an international conference on land and water remediation, environmental sustainability, and emerging technologies. The event will take place from September 15 to 19, 2025, with both in person and online participation options. For more information, please visit <https://remtechexpo.com/remtech-europe/>

Call for Abstracts opens April 7, 2025 for Global Summit on Environmental Remediation, November 4-6, 2025, Richland, WA. The Call for Abstracts opens April 7 for this conference organized by the Center for the Remediation of Complex Sites (RemPlex) in cooperation with the International Atomic Energy Agency's ENVIRONET. The Global Summit will be held in person at Pacific Northwest National Laboratory in Richland, WA, with a virtual option. Remediation topics include resilience planning, characterization and monitoring, artificial intelligence, sustainability and circularity, data management, autonomous measurements, achieving end states, and more. Abstracts for presentations and posters are due June 6, 2025. For more information, please visit <https://www.pnnl.gov/projects/remplex/2025-summit>

NOTE: For TechDirect, we prefer to concentrate mainly on new documents and the Internet live events. However, we do support an area on CLU-IN where announcement of conferences and courses can be regularly posted. We invite sponsors to input information on their events at <https://clu-in.org/courses>. Likewise, readers may visit this area for news of upcoming events that might be of interest. It allows users to search events by location, topic, time period, etc.

If you have any questions regarding TechDirect, contact Jean Balent at (202) 566-0832 or balent.jean@epa.gov.

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