



TechDirect, December 1, 2022

Welcome to TechDirect! Since the November 1 message, TechDirect gained 77 new subscribers for a total of 40,432. 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.



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.

> Solicitation: SERDP Proposals for FY 2024 Funding

Department of Defense (DoD) Strategic Environmental Research and Development Program (SERDP) Core and SERDP Exploratory Development (SEED) Project Proposals. SERDP is DoD's environmental science and technology program, planned and executed in partnership with the Department of Energy and the Environmental Protection Agency, with participation by numerous other Federal and non-Federal organizations. The Program invests across the broad spectrum of basic and applied research, as well as advanced technology development. Proposals responding to the Fiscal Year (FY) 2024 Statements of Need (SONs) will be selected through a competitive process. Separate solicitations are available to Federal and non-Federal proposers. Projects funded under the Core solicitation vary in cost and duration, consistent with the scope of the project. All Core Solicitation pre-proposals are due to SERDP January 10, 2023. SERDP also will be funding environmental research and development through the SERDP Exploratory Development (SEED) Solicitation. The SEED Solicitation is designed to provide a limited amount of funding (not to exceed \$250,000) for projects up to approximately one year in duration to investigate innovative approaches that entail high technical risk or require supporting data to provide risk reduction or proof of concept. All SEED proposals are due March 14, 2023. The SONs and detailed instructions are available on the SERDP website. For more information and to apply, please visit <https://www.serdp-estcp.org/workingwithus/>

> Upcoming Live Internet Seminars

ITRC Optimizing Injection Strategies and In situ Remediation Performance -

December 6, 2022, 1:00PM-3:15PM EST (18:00-20:15 GMT). ITRC developed the guidance: Optimizing Injection Strategies and In Situ Remediation Performance (OIS-ISRP-1) and this associated training course to identify challenges that may impede or limit remedy effectiveness and discuss the potential optimization strategies, and specific actions that can be pursued, to improve the performance of in situ remediation by: refining and evaluating remedial design site characterization data; selecting the correct amendment; choosing delivery methods for site-specific conditions; creating design specifications; conducting performance evaluations, and optimizing underperforming in situ remedies. The target audience for this guidance and training course is: environmental consultants, responsible parties, federal and state regulators, as well as community and tribal stakeholders. This training will support users in efficiently and confidently applying the guidance at their remediation sites. An optimization case study is shared to illustrate the use of the associated guidance document. For more information and to register, see <https://www.itrcweb.org> or <https://clu-in.org/live>

Federal Facilities Online Academy: Determining Applicable or Relevant and Appropriate Requirements (ARARs) in RODs - December 7, 2022, 1:00PM-3:00PM EST (18:00-20:00 GMT). Determining ARARs at Federal Facility Sites is a two-hour webinar course that will highlight how to determine Applicable or Relevant and Appropriate Requirements (ARARs) in decision-documents based on Environmental Protection Agency (EPA) guidance, identify commonly used ARARs, and when to involve partners. By taking this course, participants will achieve the following objectives: Understand the general procedures for ARAR identification, analysis, and documentation; Learn about ARARs under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 121(d) and associated EPA guidance; Identify the three types of ARARs and how they are determined; and, Explore CERCLA ARAR waiver criteria and the six waivers identified under CERCLA 121(d). The instructional methodology for this course includes lecture and quizzes. The target audience for this course is federal, state, and tribal representatives who work on Federal Facility cleanups. Ideally, students should have a basic understanding of ARARs and the CERCLA process. This course is part of the Federal Facilities Academy training program. Please consider registering for other Federal Facility Academy courses and obtain a certificate upon completion of the entire Federal Facility Academy series (12 courses total). For more information and to register, please visit <https://clu-in.org/live>

Evaluating Plant Uptake Pathways of Chemical Contaminants in State Models for Risk Assessments of Contaminated Urban Gardening Sites - December 19, 2022, 1:00PM-3:00PM EST (18:00-20:00 GMT). Integration of urban agriculture into modern city planning has acquired an increased popularity in communities across the United States. Agriculture on the urban scale has proved to be a promising method to increase access to healthy, nutritious, and low-cost produce. Urban soil systems differ from their rural counterparts in terms of their physical and chemical properties. Due to their urban nature, the soil media used in these gardening plots are highly influenced by past and present anthropogenic activities that can threaten both soil health and food safety via chemical contaminants. Consequently, plant uptake findings from rural agricultural soils do not directly apply for risk assessment of urban soil media. This webinar will provide an overview of the following topics: contaminants of emerging concern (CECs) found at urban gardening sites, state-specific CECs, plant uptake of CECs from urban soil, and plant uptake models. For more information and to register, please visit <https://clu-in.org/live>

> New Documents and Web Resources

ITRC Biosolids and Per- and Polyfluoroalkyl Substances (PFAS) Fact Sheet. ITRC has developed a series of fact sheets that summarize recent science and emerging technologies regarding PFAS. This fact sheet summarizes the emerging technical information about risk and management for biosolids (<https://www.epa.gov/biosolids>) impacted by PFAS. This fact sheet discusses significant topics where management and use of PFAS-containing biosolid may distribute PFAS into the environment, such as land application and landfills, mobility, leaching and transport, uptake into plants and biota, and much more. To view the factsheet, please visit https://pfas-1.itrcweb.org/wp-content/uploads/2022/10/Biosolids_PFAS_Fact_Sheet_102022_508.pdf

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:

- Building Trust and Relationships in Cleanup Community Engagement, from Theory to Practice
- Injection Completion Report Former Atlas "D" Missile Site 4 F.E. Warren Air Force Base, Wyoming
- Occurrence of Per- and Polyfluoroalkyl Substances and Inorganic Analytes in Groundwater and Surface Water Used as Sources for Public Water Supply IN West Virginia
- Adaptive Site Management Strategies for the Hanford Central Plateau Groundwater

EUGRIS Corner. New Documents on EUGRIS, the platform for European contaminated soil and water information. More than two resources, events, projects and news items were added to EUGRIS in November 2022. 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

2023 ITRC Annual Meeting - Boston, MA, March 20-23, 2023. This in-person event will include a plenary session, awards ceremony, receptions, and working group meetings for ITRC's many Technical Teams. In addition to the meeting, ITRC will also host a state-specific PFAS training on Friday, March 24. The ITRC Annual Meeting brings together environmental leaders and professionals from state agencies; Tribes; EPA, DOE, DOD, and other federal agencies; industry; and NGOs to work together in the development of revolutionary, consensus-based environmental guidance. For more information and to register, please visit <https://itrcweb.org/meetings/upcoming>

Save the Date! 2023 National Brownfields Training Conference - Detroit, MI, August 8-11, 2023. The National Brownfields Training Conference is the largest event in the nation focused on environmental revitalization and economic redevelopment. Usually 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. Whether you're a newcomer or a seasoned professional, Brownfields 2023 offers something for you! For more information, please visit <https://brownfields2023.org>

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. Remember, you may subscribe, unsubscribe or change your subscription address at <https://clu-in.org/techdirect> at any time night or day.

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