

Message #75: May 2003

Welcome to TechDirect. Since the April 1 message, TechDirect gained 300 new subscribers for a total of 16,556. If you feel the service is valuable, please share TechDirect with your colleagues. Anyone interested in subscribing to TechDirect may do so on CLU-IN at <http://clu-in.org/techdirect> . All previous issues of TechDirect are archived there. Also, the Technology Innovation Office Customer Satisfaction Survey is still open. We are conducting an ongoing customer satisfaction survey on the effectiveness of our TechDirect information service, our Hazardous Substance Clean-Up Information (CLU-IN) website and our Internet Seminars in meeting your needs and expectations. If you have not already filled it out, please consider letting us know what you think about our resources and services. This survey will take approximately six to twelve minutes to complete. All responses will be anonymous. See <http://clu-in.org/survey/techdirect> .

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.

EPA Rule

SPCC Revised Rule Extension Deadlines. On July 17, 2002 EPA issued a final rule amending the requirements for preparation of a Spill Prevention Control and Countermeasures (SPCC) Plan pursuant to 40 CFR Part 112 (67 FR 47042). This rule became effective on August 16, 2002. A final rule published on April 17, 2003, however, extended the deadlines by which facilities must amend and implement their SPCC Plans (68 FR 18890). As a result, facility owners/operators must amend their SPCC Plans by August 17, 2004 and fully implement their Plans that conform with the newly promulgated requirements of 40 CFR Part 112 no later than February 18, 2005. N.B. While and until facility owners/operators complete evaluation and implementation of the revised regulations, they should make every effort to ensure that they are in substantial compliance with either the old requirements or the revised modifications in order to provide continuous protection of the environment throughout the transition period. Facility owners/operators may be required to produce verification of their compliance during an inspection. The SPCC regulations in place prior to the July 17, 2002 rulemaking can be viewed and downloaded at http://www.access.gpo.gov/nara/cfr/waisidx_02/40cfr112_02.html . The final rule

granting the extension of these compliance can be viewed and downloaded at <http://www.epa.gov/oilspill> . If you have questions about the final rule, call the EPA Call Center at 1-800-424-9346 or locally within the Washington, DC area at 703-412-9810 or send an email to oilinfobox@epa.gov.

Solicitation

SITE Solicits Host Sites for Technology Evaluations. The U.S. EPA's Superfund Innovative Technology Evaluation (SITE) Program has issued a solicitation for sites to host demonstrations and evaluations of innovative soil and groundwater treatment technologies. The SITE Solicitation seeks federal, state, and privately held sites with soil and/or groundwater contamination that are available to host and are in need of full scale demonstrations of innovative/alternative treatment technologies. The solicitation is open until May 31, 2003. Additional information and an application can be found at <http://www.epa.gov/ORD/SITE>

Documents and Websites

The Brownfields Technology Support Center. The Brownfields Technology Support Center is a cooperative effort to provide technical support to federal, state, and local officials on items related to use of technologies for site investigation and cleanup. Partners in the Center include the U.S. Environmental Protection Agency, the U.S. Army Corps of Engineers, Argonne National Laboratory, and from the Northeast Hazardous Substance Research Center through the New Jersey Institute of Technology. The Center can help decision makers evaluate strategies to streamline the site investigation and cleanup process, identify and review information about complex technology options, evaluate contractor capabilities and recommendations, explain complex technologies to communities, and plan technology demonstrations. For more information, see <http://www.brownfieldstsc.org/index.htm> . Also, see link to upcoming RevTech Conference: Cleaning Up Contaminated Properties for Reuse and Revitalization: Effective Technical Approaches and Tools, July 22-24, Pittsburgh. <http://www.brownfieldstsc.org/revtech.htm> .

Underground Storage Tanks Fact Sheet: Analytical Methodologies for Fuel Oxygenates (EPA 510-F-03-001). This Fact Sheet was published by the EPA Office of Underground Storage Tanks (April 2003, 2 pages). It provides answers to several frequently asked questions. View or download at <http://www.epa.gov/oust/mtbe/omethods.pdf> . See related article on Analytical Methods

for Fuel Oxygenates in the October 2002 issue of L.U.S.T.LINE (October 2002, 8 pages). View or download at

<http://www.epa.gov/oust/mtbe/LL42Analytical.pdf> .

Simulating Radionuclide Fate and Transport in the Unsaturated Zone: Evaluation and Sensitivity Analyses of Select Computer Models (EPA 600-R-02-082). This report was published by the EPA National Risk Management Research Laboratory. This report analyzes several transport models for unsaturated soils and quantifies the sensitivity of model outputs to changes in input parameters. This information will help users understand the importance of different parameters, identify parameters which must be determined at the site, interpret model results and apply their findings to specific problems (July 2002, 186 pages). View or download at <http://www.epa.gov/ada/download/reports/600R02082/600R02082-full.pdf> .

Long-Term Groundwater Monitoring: The State of the Art (ISBN: 0-7844-0678-2). This report was published by the American Society of Civil Engineers. It contains a valuable summary of state-of-the-art groundwater monitoring network designs and was prepared for the needs of analysts and practitioners. Included are several chapters that address: The Objectives of Long-Term Groundwater Monitoring, Data Requirements in Groundwater Monitoring Network Design, Case Studies, and Future Research and Technology Transfer Needs in Groundwater Hydrology and Hydrogeology. Those involved in groundwater practice and management will find detailed descriptions of the leading methodologies for groundwater monitoring network designs and guidance for the implementation in a variety of field conditions (March 2003, 116 pages). Available at cost from

<http://www.pubs.asce.org/BOOKdisplay.cgi?9991614> .

Occurrence Summary and Use Support Document for the Six-Year Review of National Primary Drinking Water Regulations (EPA 815-D-02-006). This document, published by the U.S. EPA Office of Water, summarizes contaminant occurrence findings for 30 regulated contaminants in support of the Environmental Protection Agency's (EPA's) Six-Year Review of National Primary Drinking Water Regulations ('Six-Year Review'). Included is detailed information regarding each contaminant's occurrence in drinking water and related information relevant to initial exposure assessments. Brief reviews regarding each contaminant's production, uses and occurrence in ambient water are also included (March 2002, 459 pages). View or download at <http://clu-in.org/techpubs.htm> .

Technical and Regulatory Guidance for Surfactant/Cosolvent Flushing of DNAPL Source Zones (DNAPL-3). This report was produced by the Interstate Technology and Regulatory Council

(ITRC). This document is intended to serve as a technical and regulatory guide for stakeholders, regulators, technology decision makers, and others involved in selecting and implementing surfactant/cosolvent flushing of dense nonaqueous-phase liquids (DNAPLs) as a remedial action (April 2003, 151 pages). View or download at <http://www.itrcweb.org/DNAPL-3Review.pdf> .

In Situ Treatment of Soil and Groundwater Contaminated with Chromium Technical Resource Guide (EPA 625-R-00-005). This report was published by the EPA National Risk Management Research Laboratory. It brings together information pertaining to chromium contamination and its in situ treatment and control in groundwater and/or soil, addressing both developed and developing technologies. The report contains a description of each technology, with advantages and disadvantages, status, and performance and cost data (October 2000, 98 pages). View or download at <http://clu-in.org/techpubs.htm> .

Guide for Planning and Conducting Sediment Pore Water Toxicity Identification Evaluations (TIE) to Determine Causes of Acute Toxicity at Navy Aquatic Sites (UG-2052-ENV). This report was published by the U.S. Navy. It provides guidance for Navy Remedial Project Managers (RPMs) and their contractors to plan and conduct Toxicity Identification Evaluation (TIE) studies that will aid in characterizing and managing toxic freshwater and marine sediments associated with Naval facilities (March 2003, 150 pages). View or download at http://enviro.nfesc.navy.mil/erb/erb_a/restoration/fcs_area/con_sed/ug-2052-tie.pdf .

Cleaning up the Past, Building the Future: A National Brownfield Redevelopment Strategy for Canada. This report was published by the Canada National Round Table on the Environment and the Economy. In response to a mandate announced by the Finance Minister in his December 2001 budget, the National Round Table launched an initiative aimed at promoting the transformation of Canada's brownfields into vibrant centres of community life. The objective of the program was to develop a national strategy that incorporates federal, provincial, municipal and private sector measures that will facilitate the redevelopment of brownfields in Canada. The strategy's recommendations address key barriers to brownfields redevelopment, including: legal uncertainty surrounding environment liability, lack of capital, and poor stakeholder understanding of the issue (February 2003, 93 pages). View or download at http://www.nrtee-trnee.ca/eng/programs/Current_Programs/Brownfields_Strategy/brownfields_strategy_e.htm .

Technology News and Trends (EPA 542-N-03-002). This periodic newsletter is published by the EPA Technology Innovation Office. It

is a newsletter for environmental professionals that features a combination of articles on innovative, in-situ technologies for the characterization and treatment of soil, sediment, and ground water. This issue contains articles on bioreactors, enhanced bioremediation at Savannah River Site, a Cape Canaveral DNAPL demonstration, and in situ stabilization/solidification of metals at a former phosphate/fertilizers plant (March 2003, 6 pages). View or download at <http://clu-in.org/techpubs.htm> . For hard copies, contact (800) 490-9198 or (513) 489-8190 or fax to (513) 489-8695.

Live Internet Seminars

NIEHS/EPA Metals - Remediation, May 14. This event will highlight the work of Harry Compton from EPA's Environmental Response Team, who has been examining a treatment technology for metals-contaminated soils that has potential for improving damaged mine lands. This technology uses soils residuals, including biosolids, to treat old mining sites and revegetate them, thus reducing the bioavailability of the contaminants. Also Dr. Raina Maier, of the University of Arizona, will discuss her research into an alternative strategy-soil flushing using pump and treat technologies for in situ remediation of metal-contaminated soils. Topics include an introduction to biosurfactants, the efficacy of several biosurfactants for remediation of artificially and historically metal-contaminated soils, and problems associated with application of biosurfactants to soil systems. For more information and to register, see <http://clu-in.org/studio> .

ITRC Natural Attenuation of Chlorinated Solvents in Groundwater: Principles and Practices May 29. The seminar focuses on the basic information one needs to determine and document the conditions necessary for natural processes to be an effective part of remediating chlorinated solvents in ground water. For more information and to register, see <http://www.itrcweb.org> Or <http://clu-in.org/studio> .

ITRC Small Arms Firing Ranges - Characterization and Remediation of Soils at Closed Small Arms Firing Ranges, June 10. The Internet training introduces the participants to the various physical (including hydraulic), chemical, and biochemical mechanisms available to treat or stabilize SAFRs after some unique characterization challenges are overcome. This training is based on the ITRC document entitled: Technical & Regulatory Guidance Document for Small Arms Firing Range Remediation Technologies. For more information and to register, see <http://www.itrcweb.org> Or <http://clu-in.org/studio> .

ITRC Phytotechnologies, June 12. This seminar focuses on the ITRC Phytotechnologies Technical and Regulatory Guidance and

Phytoremediation Decision Tree. It provides technical and regulatory information to help you understand, evaluate and make informed decisions on phytotechnology proposals. For more information and to register, see <http://www.itrcweb.org> Or <http://clu-in.org/studio>.

Conferences and Symposia

RevTech Conference - Cleaning Up Contaminated Properties for Reuse and Revitalization: Effective Technical Approaches and Tools - July 22-24, Pittsburgh, PA. EPA's Technology Innovation Office is co-sponsoring this conference on how and where innovative technologies and approaches can be considered in a reuse setting. Opportunities exist for technology vendors and service providers who would like to present a poster at the conference. Posters should focus on applications that show effective clean up in a reuse setting. If you are interested in presenting a poster, please submit a one-paragraph abstract describing the technology/application. Abstracts submission deadline has been extended to May 9. To see the conference agenda, register, get a hotel or submit a poster abstract, see <http://www.brownfieldstsc.org/revtech.htm> .

Reminder! In-Situ Sediment Capping Workshop, May 12-14, Cincinnati, OH. This workshop is sponsored by NOAA, U.S. EPA, and USACE. It will review the science, technology and applications of capping at contaminated sediment sites, look at lessons learned, and talk about future directions of research and practice. For registration and agenda information, see <http://www.sediments.org/capping-workshop.html> .

NOTE: 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 <http://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 Jeff Heimerman at (703) 603-7191 or heimerman.jeff@epa.gov. Remember, you may subscribe, unsubscribe or change your subscription address at <http://clu-in.org/techdrct> at any time night or day.