

## Message #24: February, 1999

Since January 1, TechDirect gained 298 new subscribers for a total of 5553. Welcome to all the newcomers! We hope this service continues to be beneficial. Let us know your ideas for its improvement.

**Reminder:** The Hazardous Waste Clean-Up Information (CLU-IN) homepage has undergone a significant facelift. It has many new features to guide you to new characterization and remediation technology information. In addition, CLU-IN is switching to a new address at <http://clu-in.org>. PLEASE UPDATE YOUR BOOKMARKS AND LINKS TO THE CLU-IN SITE TO HTTP://CLU-IN.ORG. Please let us know if you like our changes to CLU-IN.

### ***Guidance***

**Hazardous Remediation Waste Management Requirements (HWIR-Media) Final Rule.** The EPA Office of Solid Waste (OSW) released its HWIR-Media Final Rule on November 30, 1998. This final rule outlines new requirements for RCRA hazardous remediation wastes treated, stored, or disposed of during cleanup actions. These requirements make five major changes: they make permits faster and easier to obtain; they provide that obtaining these permits will not subject the owner and/or operator to facility-wide corrective action; they create a new kind of unit called a staging pile that allows more flexibility in storing remediation waste during cleanup; they exclude dredged materials from Subtitle C if they are managed under an appropriate permit under the Marine protection, Research and Sanctuaries Act or the Clean Water Act; and they make it faster and easier for states to receive authorization [November 1998, 73 pages]. View or download at

<http://www.epa.gov/epaoswer/hazwaste/id/hwirmdia.htm>

### ***New Documents***

**Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water (EPA 600-R-98-128).** This protocol was published by the EPA National Risk Management Research Laboratory, the Air Force Center for Environmental Excellence, and the U.S. Geological Survey. It provides technical recommendations, not policy guidance. The report outlines the steps that must be taken to understand the rate and extent to which natural processes are reducing contaminant concentrations at sites

that are contaminated by chlorinated solvents. Data collected with this protocol can be used to evaluate natural attenuation through biological processes as part of a protective overall site remedy [September 1998, 248 pages]. View or download at

<http://www.epa.gov/ahaazvuc/pubs/reports.html> . No hard copies available at this time.

### **Field Applications of In Situ Remediation Technologies:**

**Ground-Water Circulation Wells (EPA 542-R-98-009).** This report is one in a series that document recent pilot demonstrations and full-scale applications that either treat soil and ground water in situ or increase the solubility and mobility of contaminants to improve their removal by other remediation technologies. The purpose of this document is to describe completed and ongoing pilot demonstrations and full scale applications of ground water circulation wells for the remediation of saturated soils and ground water at hazardous waste sites [October 1998, 41 pages]. View or download at <http://clu-in.org/techdrct/techpubs.htm>. Printed copies will be available in 3-4 weeks from (800) 490-9198 or (513) 489-8190 or fax your request to (513) 891-6685.

### **National Conference on Management and Treatment of Contaminated Sediments (EPA 625-R-98-001).**

This Proceedings of a May 1997 conference was published by the U.S. EPA National Risk Management Research Laboratory. At this conference, 24 speakers presented various treatment options available for high- and low-end contaminated sites and future research needs [August 1998, 154 pages]. This is only available in hard copy at this time. Contact (800) 490-9198 or (513) 489-8190 or fax your request to (513) 891-6685.

**In Situ Treatment of Contaminated Sediments.** This report was prepared under grant for EPA by Jon Renholds, a National Network of Environmental Management Studies fellow. It is intended to provide a basic summary and current status of in situ treatment technologies for contaminated sediments. It contains information gathered from a range of currently available sources, including project documents, reports, periodicals, Internet searches, and personal communication with involved parties [December 1998, 34 pages]. View or download at <http://clu-in.org/techdrct/techpubs.htm>.

### **Leak Detection for Landfill Liners: Overview of Tools for Vadose Zone Monitoring.**

This report was prepared under grant for EPA's Technology Innovation Office by Karen Hix, a National Network of Environmental Management Studies fellow. The publication provides a basic summary of current detection devices and approaches for landfills [August 1998, 30 pages]. View or download at <http://clu-in.org/techdrct/techpubs.htm>.

**Bioremediation Of Chlorinated Solvent Contaminated Groundwater.** This report was prepared under grant for EPA's Technology Innovation Office by Megan Grindstaff, a National Network of Environmental Management Studies fellow. The publication provides information on recent field applications of enhanced in situ bioremediation for treating groundwater contaminated with chlorinated aliphatic hydrocarbons [December 1998, 36 pages]. View or download at <http://clu-in.org/techdrct/techpubs.htm>.

**Environmental Technology Verification Reports.** The ETV Site Characterization and Monitoring Technologies (SCMT) pilot recently released seven verification statements and reports for field technologies for PCB Analysis. View or download the reports at <http://clu-in.org/programs/scmt/verstate.htm#pcb>. Hard copies for all the reports (except EPA 600-R-98-173) are available now at (800) 490-9198 or (513) 489-8190 or fax your request to (513) 891-6685. The seven reports are:

Dexsil Corporation L2000 PCB/Chloride Analyzer (EPA 600-R-98-109)[August 1998, 108 pages]  
Electric Sensor Technology, Inc. 4100 Vapor Detector (EPA 600-R-98-114)[August 1998, 111 pages]  
Envirologix, Inc. PCB in Soil Tube Assay (EPA 600-R-98-173) [December 1998, 104 pages]  
Hach Company PCB Immunoassay Kit (EPA 600-R-98-110) [August 1998, 108 pages]  
Strategic Diagnostics Inc. D TECH PCB Test Kit (EPA 600-R-98-111) [August 1998, 107 pages]  
Strategic Diagnostics, Inc. EnviroGard PCB Test Kit (EPA 600-R-98-112) [August 1998, 107 pages]  
Strategic Diagnostics, Inc. RaPID Assay System for PCB Analysis (EPA 600-R-98-113) [August 1998, 118 pages]

## ***CD ROMS***

**Evaluation of Demonstrated and Emerging Technologies for the Treatment and Clean Up of Contaminated Land and Groundwater: Pilot Study Reports 1985-1998 (EPA 542-C-98-004).** This CD-ROM was published by the U.S. EPA for the North Atlantic Treaty Organization (NATO) Committee on the Challenges of Modern Society. It contains all the reports developed by the CCMS over the last 15 years. This is not downloadable off the web. Copies of the CD ROM can be obtained by contacting (800) 490-9198 or (513) 489-8190 or fax your request to (513) 891-6685.

**A Collection of Solid Waste Resources (EPA 530-C-98-001).** This

CD ROM contains scores of publications developed by the EPA Office of Solid Waste. Included in the publications is their popular Municipal Solid Waste Factbook. The purpose of these resources is to provide the public with information on how to reduce, reuse, and recycle trash and properly manage different forms of solid and hazardous waste. This CD ROM is available from (800) 490-9198 or (513) 489-8190 or fax your request to (513) 891-6685.

## ***Conferences and Symposia***

***On-site InSights, the Innovative Technologies for Site Assessment and Monitoring Workshop***, Dallas, February 23-24. This workshop is intended to bring state regulators, engineering contractors, site owners and also individuals involved in Brownfield's cleanups together for hands on training. Participants will receive valuable information on the operation, cost, logistics and data acceptance issues of "real world" innovative technologies that are usable today. Limited travel assistance available for state and city employees. Contact On- Site Insights, NHSRC/NJIT, 17 Glen Road, Wayland, MA 01778 or Dr. Andrea Kinney at (508) 358-3532, FAX (508) 358-5091 or email to [andreakinney@worldnet.att.net](mailto:andreakinney@worldnet.att.net).

**Call for Papers! Waste Testing and Quality Assurance '99, Arlington, VA, July 18-22, 1999.** This conference will bring together regulators, analysts, engineers and managers to discuss and learn about compliance monitoring under the new Performance Based Measurement System (PBMS). If you are interested in being a presenter at this conference, you must submit an abstract by March 1, 1999. Contact [Monica Duda@wpi.org](mailto:Monica_Duda@wpi.org) for further instructions regarding developing and submitting an abstract. For agenda and registration information see <http://www.wpi.org/wtqa>.

**Assessment and Remediation of Contaminated Sites in Arctic and Cold Climates, ARCSACC '99, May 3-4, 1999, Edmonton, Alberta, Canada.** The objective of the Edmonton 99 symposium is to bring together technical experts from Canada and the US to address contaminated sites remediation and assessment in the unique context of the Arctic and cold climates. Contact e-mail [kwbiggar@civil.ulaberta.ca](mailto:kwbiggar@civil.ulaberta.ca), or visit <http://www.civil.ualberta.ca/arcsacc>.

**Environmental Technology Project: Argentina.** The U.S. Environmental Protection Agency (EPA) and other federal government departments and agencies are actively promoting the export of U.S. environmental technologies. The EPA Technology Innovation Office is seeking technology companies to participate in an environmental technology demonstration and conference in

Argentina. The Environmental Technology Project: Argentina (May 31-June 4 1999), is seeking technologies for demonstration at a host industrial facility in Argentina, concurrent with a planned technology transfer conference. Participating vendors will have a significant and unique opportunity to showcase their technology and establish ties for future business. A limited number of U.S. vendors will be selected to participate in this project. Register your interest no later than February 19, 1999.

If you have questions regarding TechDirect, please contact Jeff Heimerman at (703) 603-7191 or [heimerman.jeff@epa.gov](mailto:heimerman.jeff@epa.gov).