

## Message #8: October, 1997

This is the eighth TechDirect message. Since the September 1 message, TechDirect has 156 new subscribers. To those of you new to us, welcome! Every month we hope to provide you with information on remediation and site characterization technologies that is current and relevant to your jobs. THIS IS LIKE SHAREWARE - PASS IT ON. If your peers are interested in subscribing to TechDirect, they may do so on the Clean-Up Information (CLU-IN) home page at <http://clu-in.org>. All TechDirect's previous messages are archived on CLU-IN.

### Publications

**Abstracts of Remediation Case Studies - Volume 2 (EPA 542-R-97-010).** This publication was developed by the Federal Remediation Technologies Roundtable. It summarizes 17 case studies of site remediation projects. They will help establish benchmark cost and performance information which should lead to greater confidence in the selection and use of these technologies [July 1997, 47 pages]. Hard copy available from (800) 490-9198 or (513) 489-8190.

**Remediation Case Studies: Soil Vapor Extraction and Other *In Situ* Technologies (EPA 542-R-97-009).** A Federal Remediation Technologies Roundtable publication which is a full text collection of nine cost and performance case studies [July 1997, 256 pages]. Hard copy available from (800) 490-9198 or (513) 489-8190.

**Remediation Case Studies: Bioremediation and Vitrification (EPA 542-R-97-008).** A Federal Remediation Technologies Roundtable publication which is a full text collection of eight cost and performance case studies [July 1997, 247 pages]. Hard copy available from (800) 490-9198 or (513) 489-8190.

**Emerging Technology Summary: Vitrification of Soils Contaminated by Hazardous and/or Radioactive Wastes (EPA/540/S-97-501).** This document was produced by the EPA Superfund Innovative Technology Evaluation (SITE) program [August 1997, 5 pages]. It is a performance summary of an advanced multifuel-capable combustion and melting system (CMS) for the vitrification of hazardous wastes. The Vortec CMS has successfully demonstrated the ability to effectively treat hazardous and/or radioactive soils and produce a stable vitrified product with excellent leach resistance. The ability to process contaminated soils

either as dry granular solids or in the form of a slurry has been demonstrated with a DRE of greater than 99.99% for organic compounds. All the glass produced passed the TCLP test with the concentration of contaminants in the leachates significantly reduced from those of the corresponding feedstocks which did not pass TCLP. The vitrified product also demonstrated superior radionuclide leach resistance, as no detectable quantities of the surrogate radionuclide were found by an ANSI/ANS-16.1 test. Download from <http://www.epa.gov/ORD/SITE/soils>. For hard copy, contact (513) 569-7562.

**Rules of Thumb for Superfund Remedy Selection (EPA 540-R-97-013).** This document describes key principles and expectations, interspersed with "best practices" based on program experience, that should be consulted during the Superfund remedy selection process [August 1997, 23 pages]. These remedy selection "Rules of Thumb" are organized into three major areas: 1) risk assessment and risk management, 2) developing remedial alternatives, and 3) ground-water response actions. EPA employees can obtain copies by calling the Superfund Document Center at 703-603-9232, or e-mail a request to [superfund.documentcenter@epamail.epa.gov](mailto:superfund.documentcenter@epamail.epa.gov). Others contact the National Technical Information Service at (703) 487-4650. Download from <http://www.epa.gov/superfund>.

**Practical Aspects of Applying Geostatistics at Hazardous, Toxic and Radioactive Waste Sites (ET I1110-1-175).** This engineering pamphlet, developed by the U.S. Army Corps of Engineers, introduces the reader to geostatistical techniques and demonstrates their basic utility in hazardous, toxic and radioactive waste site investigations [June 1997, 63 pages]. Download from <http://140.194.76.129/publications/eng-tech-ltrs/et1110-1-175/toc.html>. Copies are available from USACE Publications Depot, (301) 394-0081.

**SITE Technology Profiles-Ninth Edition (EPA 540-R-97-502) - Now Viewable!!** This document, advertised in the May TechDirect, provides 2-page summaries of the technologies evaluated under the Superfund Innovative Technology Evaluation (SITE) program [January 1997, 526 pages]. It is now viewable on CLU-IN. Hard copies, contact EPA's Center for Environmental Research Information (CERI) at (513) 569-7562. Download or view from <http://clu-in.org/products/site/contents.htm>.

## **Announcements**

The U.S. EPA Small Business Innovation Research (SBIR) Program Solicitation opened on September 18, 1997 and will close on November 18, 1997. The SBIR program provides financial support to small businesses (no more than 500 employees) for the

development of innovative research leading to the commercialization of new technologies. The SBIR research topics include: treatment, recycling and disposal of solid wastes, hazardous waste and sediments; in-situ remediation of organically contaminated soil, sediments and groundwater; and treatment or removal of heavy metals at contaminated sites. There are also topics addressing water and air pollution, pollution prevention and monitoring/analytical technologies. For more information on the SBIR solicitation, see <http://es.inel.gov/ncerqa/rfa/98sbir.html> or contact Dr. Jim Gallup at 202-564-6823 or Marshall Dick at 202-564-6828.

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<http://clu-in.org/techdrct/td1097.htm>  
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