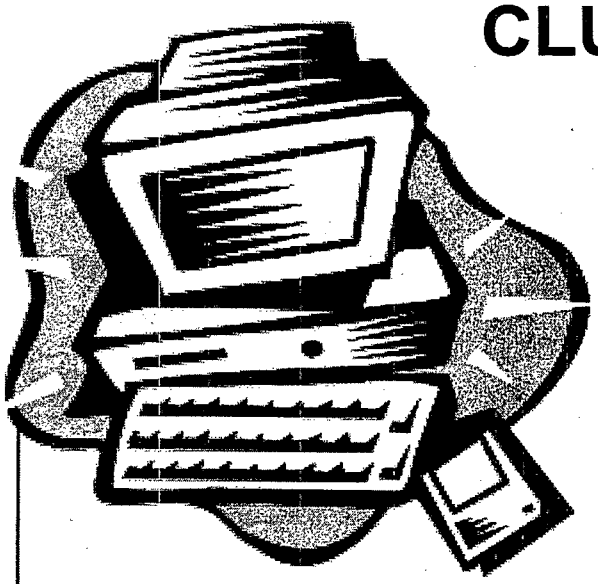
EPA United States Environmental Protection Agency

Making the Most of Your CLU-IN Visits



http://www.clu-in.org

The Hazardous Waste Clean-Up Information (CLU-IN) web site, together with its many partner web sites, houses detailed information on numerous topics. In fact, we have so many resources available that it can be hard for new users to quickly see all that we have to offer! So, now that you know where to find us on the web, here is where you can find detailed information on...

Characterizing a Site

EPA REACH IT
< http://www.epareachit.org >

Quickly view information about innovative remediation and characterization technologies. The guided search feature allows you to locate relevant characterization technologies based on contaminant group, media, and technology scale.

Measurement and Monitoring Technologies for the 21st Century (21M²)
< http://clu-in.org/21m2/ >

Identifying and deploying promising measurement and monitoring technologies in response to waste management and site cleanup program needs by matching existing and emerging technologies with current needs. 21M² also continuously seeks out opportunities to showcase promising approaches through further research support, demonstrations, monitored "partnership" applications, case studies, training, and technical outreach.

Sensor Technology Information Exchange (SenTIX)
< http://www.sentix.org >

Improves communication among sensor developers, vendors, and users inside and outside of the environmental arena by serving as a forum for exchanging information on sensor technologies and needs.

Selecting and Applying Innovative Cleanup Technologies

Technology Focus
< http://clu-in.org/techfocus/ >

Provides a compilation of the most relevant information sources on remediation technologies under categories such as technology descriptions, applications, engineering/regulatory guidance, training, and references, with a summary of and direct link to each resource.

EPA REACH IT
<http://www.epareachit.org>

Quickly view information about innovative remediation and characterization technologies. The guided search feature allows you to locate relevant cleanup technologies based on contaminant group, media, and technology scale.

Federal Remediation Technologies Roundtable Cost and Performance Case Studies
<http://www.frtr.gov/cost/>

Cost and performance information for full-scale remediation efforts and large-scale demonstration projects. Describes a wide variety of above-ground and *in situ* cleanup technologies treating a variety of contaminants. The reports contain project information on site background and setting, waste source, contaminants and media treated, technology design and operation, performance, cost, regulatory requirements, points of contact, and lessons learned.

Innovative Remediation Technologies: Field-Scale Demonstration Projects in North America
<http://www.clu-in.org/products/nairt/>

Summarizes 600+ ongoing and completed field demonstrations. All projects are sponsored by government agencies, usually working in partnership with private technology developers. This report consolidates key reference information in a matrix that allows project mangers to quickly identify new technologies that may answer their cleanup needs and provides contacts for obtaining technology demonstration results and other information.

Federal Remediation Technologies Roundtable Remediation Technologies Screening Matrix and Reference Guide
<http://www.frtr.gov/matrix2/>

User-friendly tool to screen technologies for a remediation project. The matrix allows you to screen through 64 *in situ* and *ex situ* technologies for either soil or groundwater remediation. Variables used in screening include contaminants, development status, overall cost, and cleanup time. In-depth information on each technology is also available.

In Situ Thermal Treatment Site Profiles
<http://clu-in.org/products/thermal/>

Captures information on sites deploying or planning to deploy steam, hot air, or hot water injection, conductive heating, electrical resistive heating, and radio-frequency heating cleanup methods.

MTBE Treatment Profiles
<http://clu-in.org/products/mtbe/>

Information about completed and ongoing applications of *in situ* and *ex situ* treatment technologies for methyl tert-butyl ether (MTBE) in drinking water and media at contaminated sites. Profiled technologies include air sparging, bioremediation, drinking water treatment, chemical oxidation, multi-phase extraction, phytoremediation, product recovery, pump-and-treat, and soil vapor extraction.

Permeable Reactive Barrier Installation Profiles
<http://www.rtdf.org/public/permbarr/prbsumms/>

Status report on the use of permeable reactive barriers (PRBs) for ground-water remediation in the United States, Canada, and selected locations abroad. Included are profiles of ongoing and completed pilot- and full-scale PRB demonstrations as well as full-scale installations. Contaminants treated include chlorinated solvents, metals and inorganics, fuel hydrocarbons, nutrients, radionuclides, and other organic contaminants.

Phytoremediation Site Profiles
<http://www.rtdf.org/public/phyto/siteprof/>

Provides information on phytoremediation projects available on the Internet or through EPA. Included are profiles of bench, field, and full-scale projects.

Cleanup Niches

EPA Brownfields Technology Support Center
<http://clu-in.org/products/roadmap/>

Ensures that Brownfields decision makers are aware of the full range of technologies available to make informed or "smart" technology decisions for their sites. The Brownfields Center provides a readily accessible resource for unbiased assessments and supporting information on options relevant to specific sites. The Center also provides a technology-oriented review process for investigation and clean-up plans for these sites.

Road Map to Understanding Innovative Technology Options for Brownfields Investigation and Cleanup
<http://www.brownfieldstsc.org>

Provides a generally applicable outline of the steps in the cleanup of a site slated for redevelopment, and introduces brownfields stakeholders to the range of innovative technology options and resources available to them.

Drycleaner Site Profiles
<http://www.drycleancoalition.org/profiles/>

Provides details about the remediation of specific drycleaner sites throughout the United States with the intent of providing users, particularly state officials, with information that can help them in making more informed decisions related to the remediation of the sites in their states and, when possible, to provide pointers to additional information.

Fractured Bedrock Focus Area
<http://clu-in.org/fracrock/>

Contains a series of brief site profiles that identify the nature and extent of the contamination problems at contaminated fractured rock sites, geology affecting site assessment and remediation efforts, characterization and remediation actions taken or planned, and site contact information to open communication between individuals currently involved in using these technologies.

Chemists' Corner
<http://clu-in.org/chemistscorner/>

Provide resources of interest to the environmental chemist working on projects related to contaminated site investigation and cleanup.

EPA

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Environmental Protection Agency
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Solid Waste and
Emergency Response
(5102G)

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Get the Latest News and Developments

TechDirect and Newsletters
<http://clu-in.org/newsletters/>

Various print and email newsletters to keep you informed of the latest developments in innovative hazardous waste cleanup technologies. EPA's Technology Innovation Office continuously tracks multiple information sources to ensure we keep up-to-date on developments related to hazardous waste cleanup technologies. We then review these sources and distill information relevant to our users in the public and private sectors.