



# Directory of Technology Support Services to Brownfields Localities



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## BACKGROUND

The U.S. Environmental Protection Agency (EPA) Office of Solid Waste and Emergency Response (OSWER) Technology Innovation Office (TIO) was created in 1990 to advocate the introduction, acceptance, and use of innovative technologies for the cleanup of Superfund sites. TIO's mission is to increase the application of innovative technologies for characterizing and cleaning up contaminated waste sites. Innovative technologies are having a significant positive effect on the cost, scheduling, and effectiveness of environmental cleanup projects. Innovative technologies have been demonstrated successfully at numerous Superfund and Resource Conservation and Recovery Act (RCRA) sites and should be incorporated into brownfields projects, as well. The potential cost savings and the ability to expedite decisions about site remediation are significant advantages to brownfields redevelopment projects. "Smart" technology choices that reduce the time or cost necessary to complete investigation and cleanup can help to make many sites more attractive for redevelopment and reuse.

The stakeholders involved in brownfields projects include city planners, real estate developers, consultants, citizens' groups, private and public interests groups, financial institutions, technology developers and vendors, EPA regional brownfields coordinators, and state and tribal brownfields coordinators. Many of those stakeholders may not have extensive experience with site assessment and cleanup activities and therefore may not be aware of the full range of technology options available to them. However, as they begin to make, review, and approve decisions about technologies chosen to investigate or clean up brownfields properties, it is essential that stakeholders understand the most cost-, time-, and environmentally effective options.

In 1998, TIO established the Brownfields Technology Support Center to assist brownfields localities and other stakeholders in assessing and using innovative technologies. The center provides assistance on site-specific issues, conducts general research of technologies, and prepares guidance and other information tools, including this directory of technology support services. Additional information about the center is available at <<<http://www.brownfieldstsc.org>>> or the center's toll free telephone number at 1-877-838-7220. Brownfields localities also can contact their EPA regional brownfields coordinators for information or assistance.

## INTRODUCTION

This directory provides information about EPA offices, nongovernment organizations funded by EPA, and other federal agencies, that may be able to provide expertise to assist in the selection of technologies to characterize and clean up brownfields properties. The directory presents a profile of each entity that includes:

- Background and location information
- Information about sources of funding
- A description of the area(s) of expertise available
- A discussion of the types of services available
- Contact information, as well as information about how to obtain assistance

The directory also includes:

- A table that summarizes key information about the services described in the directory
- A list of documents that may be of interest to brownfields stakeholders
- A list of Web sites of other organizations that are involved in brownfields projects

## LIST OF ACRONYMS

CERI	Center for Environmental Research Information
DoD	U.S. Department of Defense
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
EPA REACH IT	U.S. Environmental Protection Agency REmediation And CHaracterization Innovative Technologies Web Site
HSRC	Hazardous Substance Research Center
HTRW	Hazardous, toxic, and radioactive waste
ICMA	International City/County Management Association
IRM	Institute for Responsible Management
NAREL	National Air and Radiation Environmental Laboratory
NERL	National Exposure Research Laboratory
NPL	National Priorities List
NRMRL	National Risk Management Research Laboratory
ORD	Office of Research and Development
OSC	On-scene coordinator
OSWER	Office of Solid Waste and Emergency Response
PCB	Polychlorinated biphenyls
PTI	Public Technology, Inc.
RCRA	Resource Conservation and Recovery Act
RPM	Remedial project manager
STLP	Superfund Technical Liaison Program
STSC	Superfund Technical Support Centers
TAB	Technical Assistance to Brownfields
TIO	Technology Innovation Office
TOSC	Technical Outreach Services for Communities
TNT	Trinitrotoluene
TSP	Technical Support Project
USACE	U.S. Army Corps of Engineers
WRAP	Wetlands Regulatory Assistance Program

**SUMMARY OF TECHNOLOGY SUPPORT SERVICES**

Name of Center	Location(s)	Speciality Area	Point(s) of Contact	Internet Home Page Address
EPA Brownfields Technology Support Center	<p>Washington, D.C.</p> <p>Las Vegas, Nevada</p> <p>Cincinnati, Ohio</p> <p>Ada, Oklahoma</p>	<p>Innovative technologies</p>	<p>Dan Powell, EPA TIO (703) 603-7196 Carlos Pachon, EPA TIO (703) 603-9904 Art Glazer, Tetra Tech EM Inc. (703) 390-0623</p> <p>Ken Brown, NERL (702)798-2270</p> <p>David Reisman, NRMRL (513) 487-2588</p> <p>Jerry Jones, NRMRL (580) 436-8593</p>	<p><a href="http://clu-in.org/brownfieldstsc">http://clu-in.org/brownfieldstsc</a></p>

**SUMMARY OF TECHNICAL SUPPORT SERVICES (continued)**

Name of Center	Location(s)	Speciality Area	Point(s) of Contact	Internet Home Page Address
EPA Regional Brownfields Coordinators	Boston, Massachusetts New York, New York Philadelphia, Pennsylvania Atlanta, Georgia Chicago, Illinois Dallas, Texas Kansas City, Kansas Denver, Colorado San Francisco, California Seattle, Washington	Assist in the management of resources to provide support to brownfields projects	John Podgurski, Region 1 (617) 918-1209 Larry D'Andrea, Region 2 (212) 637-4314 Tom Stolle, Region 3 (215) 814-3129 Mickey Hartnett, Region 4 (404) 562-8661 Joseph Dufficy, Region 5 (312) 886-1960 Stan Hitt, Region 6 (214) 665-6736 Susan Klein, Region 7 (913) 551-7786 Kathie Atencio, Region 8 (303) 312-6803 Jim Hanson, Region 9 (415) 744-2237 Timothy Brincefield, Region 10 (206) 553-2100	<a href="http://www.epa.gov/swerosps/bf/regcnct.htm">http://www.epa.gov/swerosps/bf/regcnct.htm</a>
EPA Center for Environmental Research Information (CERI)	Cincinnati, Ohio	Technology transfer	Daniel Murray (513) 569-7501 Susan Schock (513) 569-7551	<a href="http://www.epa.gov/tbnrml">http://www.epa.gov/tbnrml</a>
U.S. Army Corps of Engineers (USACE)	38 full-service engineer districts located throughout the United States; primary points of contact located in Washington, D.C.	Site remediation and economic analysis of design and construction for reuse of brownfields	Bill Brasse (202) 761-8879 Jane Mergler (202) 761-5603 Greg Johnson (202) 761-0344 Jack Bickley (202) 761-8892	<a href="http://www.environmental.usace.army.mil/hq/programs/brownfields/brownfields.html">http://www.environmental.usace.army.mil/hq/programs/brownfields/brownfields.html</a>

**SUMMARY OF TECHNICAL SUPPORT SERVICES (continued)**

Name of Center	Location(s)	Speciality Area	Point(s) of Contact	Internet Home Page Address
Hazardous Substance Research Centers	Newark, New Jersey (Northeast) Baton Rouge, Louisiana (South/Southwest) Ann Arbor, Michigan (Great Lakes/Mid-Atlantic) Manhattan, Kansas (Great Plains/Rocky Mountain) Stanford, California (West)	Technology transfer Contaminated sediment Bioremediation Contaminated soil Site remediation	Helen Gramcko (973) 596-5845 Danny Reible (225) 388-6770 Walter Weber (313) 763-1464 Larry Erickson (785) 532-2380 Perry McCarty (650) 723-4123	<a href="http://www.hsrc.org">http://www.hsrc.org</a>
Public Technology, Inc.	Washington, D.C.	Technology transfer	Ronda Mosley-Rovi (202) 626-2455 Steven Everett (202) 626-2421	<a href="http://brownfieldstech.org">http://brownfieldstech.org</a>
Carnegie Mellon/University of Pittsburgh Brownfields Center	Pittsburgh, Pennsylvania	Geographic information systems	Deborah Lange (412) 268-7121	<a href="http://www.ce.cmu.edu/brownfields">http://www.ce.cmu.edu/brownfields</a>
Institute for Responsible Management	New Brunswick, New Jersey	Monitor activities at brownfields pilot projects	Chuck Powers (732) 296-1960	<a href="http://www.instrm.org/index.html">http://www.instrm.org/index.html</a>
International City/County Management Association (ICMA) Brownfields/Superfund Research Consortium	Washington, D.C.	Facilitate information exchange among local governments	David Borak (202) 962-3506	<a href="http://www.icma.org/abouticma/programs/sbri.cfm">http://www.icma.org/abouticma/programs/sbri.cfm</a>
Brownfields Non-Profits Network	Various	Resource center	Various	<a href="http://www.brownfieldsnet.org/">http://www.brownfieldsnet.org/</a>



<b>1.0 EPA BROWNFIELDS TECHNOLOGY SUPPORT CENTER</b>	
<b>Background:</b>	<p>Coordinated through EPA OSWER's TIO, the Brownfields Technology Support Center ensures that brownfields decision makers are aware of the full range of technologies available and are able to make "smart" technology decisions for their sites. The center provides a readily accessible resource for unbiased assessments and supporting information about options relevant to specific sites. The center also will provide a technology-oriented process for reviewing cleanup plans for those sites.</p> <p>The center works through EPA Office of Research and Development (ORD) laboratories in Cincinnati, Ohio; Ada, Oklahoma; and Las Vegas, Nevada to provide the expertise and information necessary to help brownfields decision makers determine whether innovative options are available and feasible for their sites.</p>
<b>Location:</b>	EPA Headquarters, Washington, D.C.
<b>Source of Funding:</b>	EPA
<b>Speciality Areas:</b>	<p>Each of the three laboratories provide expertise related to various speciality areas that include:</p> <ul style="list-style-type: none"> <li>• National Exposure Research Laboratory (NERL), Las Vegas, Nevada <ul style="list-style-type: none"> <li>- site characterization technologies and monitoring</li> </ul> </li> <li>• National Risk Management Research Laboratory (NRMRL), Ada, Oklahoma <ul style="list-style-type: none"> <li>- groundwater remediation</li> </ul> </li> <li>• NRMRL, Cincinnati, Ohio <ul style="list-style-type: none"> <li>- engineering research and development</li> </ul> </li> </ul>
<b>General Services Offered:</b>	<ul style="list-style-type: none"> <li>• Reviews of documents</li> <li>• Technology scoping for site assessment or investigation technologies and for cleanup technologies</li> <li>• Descriptions of technologies</li> <li>• Reviews of literature and electronic resources</li> <li>• Support for demonstrations</li> </ul>
<b>Process for Requesting Assistance:</b>	Localities can submit requests through their EPA regional brownfields coordinators. In addition, localities can submit requests through the Internet at << <a href="http://clu-in.org/brownfieldstsc">http://clu-in.org/brownfieldstsc</a> >> or by calling the center's toll free telephone number at 1 (877) 838-7220.
<b>Points of Contact:</b>	<p>Dan Powell, EPA TIO (703) 603-7196 or <a href="mailto:powell.dan@epa.gov">powell.dan@epa.gov</a>  Carlos Pachon, EPA TIO (703) 603-9904 or <a href="mailto:pachon.carlos@epa.gov">pachon.carlos@epa.gov</a>  Ken Brown, NERL, Las Vegas (702) 798-2270 or <a href="mailto:brown.ken@epa.gov">brown.ken@epa.gov</a>  David Reisman, NRMRL, Cincinnati (513) 487-2588 or <a href="mailto:reisman.david@epa.gov">reisman.david@epa.gov</a>  Jerry Jones, NRMRL, Ada (580) 436-8593 or <a href="mailto:jones.jerry@epa.gov">jones.jerry@epa.gov</a>  Art Glazer, Tetra Tech EM Inc. (support contractor) (703) 390-0623 or <a href="mailto:glazera@ttemi.com">glazera@ttemi.com</a></p>
<b>Internet Home Page:</b>	<< <a href="http://clu-in.org/brownfieldstsc">http://clu-in.org/brownfieldstsc</a> >>

<b>1.1 RESOURCES AVAILABLE TO EPA STAFF</b>	
<b>Background:</b>	<p>Additional resources at EPA are available to staff of EPA to assist brownfields localities. Those resources include:</p> <ul style="list-style-type: none"> <li>• EPA Superfund Technical Liaison Program (STLP): In 1990, EPA ORD and OSWER created the STLP to expand the technical support available to regional Superfund staff. ORD assigns senior scientists and engineers to serve as technical liaisons, who are located in EPA regional hazardous waste program offices.</li> <li>• EPA Technical Support Project (TSP): EPA OSWER, ORD, and regional waste management offices established the TSP in 1987 to provide technical assistance to regional remedial project managers (RPM) and on-scene coordinators (OSC). The project consists of a network of regional forums, specialized technical centers located in ORD laboratories, and OSWER's environmental response team. The technical centers and forums include: <ul style="list-style-type: none"> <li>– EPA Superfund Technical Support Centers (STSC): The objectives of the STSC include: provide technical support and assistance to regional staff, improve communications among EPA regional offices and ORD laboratories, and ensure coordination and consistency in the application of remedial technologies. In addition, the centers may provide support for issues related to brownfields at non-NPL sites through the Brownfields Technology Support Center described in section 1.0 of this directory.</li> <li>– EPA Regional Forums: EPA regional technical personnel have established three forums within TSP, the Engineering Forum, the Ground Water Forum, and the Federal Facilities Forum. Each of the forums work to improve communications and assist in technology transfer between the regional offices and the STSCs. The forums also serve as technical resources and distribute information developed by the TSP. Members of the forums meet semiannually to discuss technical and policy issues, new technologies and to network with other federal agencies.</li> </ul> </li> </ul>
<b>Location:</b>	<p>STLP: Most EPA regional offices</p> <p>STSCs:</p> <ul style="list-style-type: none"> <li>• NERL, Las Vegas, Nevada</li> <li>• NRMRL, Cincinnati, Ohio</li> <li>• NRMRL, Ada, Oklahoma</li> <li>• National Center for Environmental Assessment, Cincinnati, Ohio</li> <li>• National Air and Radiation Environmental Laboratory (NAREL), Montgomery, Alabama</li> </ul> <p>Regional Forums:</p> <ul style="list-style-type: none"> <li>• Engineering Forum</li> <li>• Ground Water Forum</li> <li>• Federal Facilities Forum</li> </ul>
<b>Process for Requesting Assistance:</b>	<p>Localities can submit requests through their brownfields coordinators. Section 2.0 of this directory provides a list of brownfields coordinators for each regional office.</p>
<b>Internet Home Page:</b>	<p>STSCs: &lt;&lt;<a href="http://www.clu-in.org/tsp/tscs.htm">http://www.clu-in.org/tsp/tscs.htm</a>&gt;&gt;</p>

<b>2.0 EPA REGIONAL BROWNFIELDS COORDINATORS</b>	
<b>Background:</b>	Each EPA regional office has identified a central point of contact responsible for receiving and disseminating information about the region's brownfields activities.
<b>Location:</b>	Each EPA regional office
<b>Source of Funding:</b>	EPA
<b>Areas of Expertise:</b>	Each EPA regional office has assembled a team of brownfields coordinators to work with the pilot projects that have been awarded in that region. Those individuals have extensive experience in the Superfund and RCRA programs, in site characterization and remediation, and selection and use of innovative technologies. Some members of the regional brownfields teams also are former RPMs, OSCs, and site assessment managers.
<b>Process for Requesting Assistance:</b>	Contact the individuals listed below.
<b>Points of Contact:</b>	<p>John Podgurski, EPA Region 1 (617) 918-1209 or <a href="mailto:podgurski.john@epa.gov">podgurski.john@epa.gov</a></p> <p>Larry D'Andrea, EPA Region 2 (212) 637-4314 or <a href="mailto:dandrea.larry@epa.gov">dandrea.larry@epa.gov</a></p> <p>Tom Stolle, EPA Region 3 (215) 814-3129 or <a href="mailto:stolle.tom@epa.gov">stolle.tom@epa.gov</a></p> <p>Michael Hartnett, EPA Region 4 (404) 562-8661 or <a href="mailto:hartnett.y@epa.gov">hartnett.y@epa.gov</a></p> <p>Joseph Dufficy, EPA Region 5 (312) 886-1960 or <a href="mailto:dufficy.joseph@epa.gov">dufficy.joseph@epa.gov</a></p> <p>Stanley Hitt, EPA Region 6 (214) 665-6736 or <a href="mailto:hitt.stanley@epa.gov">hitt.stanley@epa.gov</a></p> <p>Susan Klein, EPA Region 7 (913) 551-7786 or <a href="mailto:klein.susan@epa.gov">klein.susan@epa.gov</a></p> <p>Kathie Atencio, EPA Region 8 (303) 312-6803 or <a href="mailto:atencio.kathie@epa.gov">atencio.kathie@epa.gov</a></p> <p>James Hanson, EPA Region 9 (415) 744-2237 or <a href="mailto:hanson.jim@epa.gov">hanson.jim@epa.gov</a></p> <p>Timothy Brincefield, EPA Region 10 (206) 553-2100 or <a href="mailto:brincefield.timothy@epa.gov">brincefield.timothy@epa.gov</a></p>
<b>Internet Home Page:</b>	<< <a href="http://www.epa.gov/swerosps/bf/regcntct.htm">www.epa.gov/swerosps/bf/regcntct.htm</a> >> (Lists the entire Brownfields team for each region.)

<b>3.0 EPA NATIONAL CENTER FOR ENVIRONMENTAL RESEARCH INFORMATION</b>	
<b>Background:</b>	EPA CERI serves as the focal point at EPA ORD for the dissemination of scientific and technical information to the public and other government agencies. CERI is responsible for planning, coordinating, reviewing, and conducting a comprehensive program to distribute recent advancements in risk management approaches for use by regulated industry; regulatory and permitting officials; and the environmental consulting community. Among its products are technical and nontechnical publications, software products, and technical meetings to inform stakeholders of the results of research conducted by EPA and other organizations.
<b>Location:</b>	Cincinnati, Ohio
<b>Source of Funding:</b>	EPA
<b>Speciality Areas:</b>	<p>CERI can provide support in the following areas:</p> <ul style="list-style-type: none"> <li>• Watershed management, infrastructures, and decentralized wastewater systems</li> <li>• Biosolids and urban wet weather</li> <li>• Ecosystem restoration</li> <li>• Drinking water treatment optimization</li> <li>• Hazardous waste remediation particularly innovative treatment technologies</li> <li>• Brownfields sustainability</li> <li>• Risk communication, children's health, and persistent bioaccumulative toxics</li> <li>• Pollution prevention</li> </ul>
<b>General Services Offered:</b>	<p>CERI has experience providing the following services:</p> <ul style="list-style-type: none"> <li>• Technical assistance</li> <li>• Workshops and seminars</li> <li>• Guidance documents and technical resources</li> </ul>
<b>Process for Requesting Assistance:</b>	Localities can submit requests directly to the points of contact listed below.
<b>Points of Contact:</b>	<p>Daniel Murray, Chief (513) 569-7551</p> <p>For Brownfields related assistance: Sue Schock (513) 569-7551</p>
<b>Internet Home Page:</b>	<< <a href="http://www.epa.gov/ttnrmrl">http://www.epa.gov/ttnrmrl</a> >>

#### 4.0 U.S. ARMY CORPS OF ENGINEERS

<b>Background:</b>	Through its traditional water resources development program, its “support for others” program and, its military program, USACE provides engineering, construction, water resources, and environmental management services for public sector clients (such as other federal agencies, states, and municipalities). Experienced in collaborative actions and adept at helping municipalities identify federal resources and integrate the “federal team” into an effort, USACE has the capacity to expand partnerships. Under its integrated approach, USACE seeks more comprehensive solutions to such issues as urban watersheds, revitalization of infrastructure, water supply, combined sewer overflows, environmental restoration, cleanup of hazardous waste, and other issues that affect reuse of brownfields. USACE has established a network of brownfields specialists throughout the country. The Internet home page listed below identifies district-level points of contact. In addition, USACE has two centers that are described in sections 6.1 and 6.2 of this directory.
<b>Members or Location:</b>	<ul style="list-style-type: none"> <li>• District-level brownfields support staff at various locations throughout the United States</li> <li>• Hazardous, Toxic, and Radioactive Waste Center of Expertise, Omaha, Nebraska</li> <li>• Waterways Experiment Station Environmental Laboratory, Vicksburg, Mississippi</li> <li>• Construction Engineering Research Laboratory, Champaign, Illinois</li> </ul>
<b>Source of Funding:</b>	Congressional appropriations and the U.S. Department of Defense (DoD), and other federal agencies
<b>Speciality Areas:</b>	<ul style="list-style-type: none"> <li>• Planning assistance</li> <li>• Site assessment</li> <li>• Remedial design and construction</li> <li>• Economic analysis of design and construction alternatives for the reuse of brownfields</li> <li>• Rapid-response removal of hazardous, toxic, and radioactive waste (HTRW)</li> <li>• Habitat restoration</li> <li>• Contract administration</li> <li>• Project management</li> </ul>
<b>General Services Offered:</b>	USACE has experience in all aspects of: <ul style="list-style-type: none"> <li>• Site assessment</li> <li>• Site remediation</li> <li>• Sustainable reuse</li> </ul>
<b>Process for Requesting Assistance:</b>	Localities can submit requests to the point of contact listed below.
<b>Point of Contact:</b>	Bill Brasse, Headquarters Brownfields Coordinator (202) 761-8879
<b>Internet Home Page:</b>	<< <a href="http://www.environmental.usace.army.mil/hq/programs/brownfields/brownfields.html">http://www.environmental.usace.army.mil/hq/programs/brownfields/brownfields.html</a> >>

<b>4.1 USACE HAZARDOUS, TOXIC, AND RADIOACTIVE WASTE CENTER OF EXPERTISE</b>	
<b>Background:</b>	The USACE Hazardous Toxic, and Radioactive Waste Center of Expertise focuses on environmental remediation and other environmental compliance issues.
<b>Location:</b>	Omaha, Nebraska
<b>Speciality Areas:</b>	Innovative technologies
<b>General Services Offered:</b>	<p>The center can provide support in the following areas nationwide:</p> <ul style="list-style-type: none"> <li>• Compliance: environmental regulation and laws</li> <li>• Environmental and ecological risk assessment</li> <li>• Health and safety</li> <li>• Chemical, environmental, and geotechnical engineering</li> <li>• Geology</li> <li>• Chemistry</li> <li>• Health physics</li> <li>• Contracting</li> <li>• Cost recovery</li> <li>• Review of project documents</li> <li>• Technology transfer</li> <li>• Discipline-specific technical assistance</li> <li>• Training</li> <li>• Development of guidance documents</li> <li>• Site visits</li> </ul>
<b>Point of Contact:</b>	Johnnie Shockley (402) 697-2558
<b>Internet Home Page:</b>	<< <a href="http://www.environmental.usace.army.mil/">http://www.environmental.usace.army.mil/</a> >>

<b>4.2 USACE WATERWAYS EXPERIMENT STATION ENVIRONMENTAL LABORATORY</b>	
<b>Background:</b>	The USACE Waterways Experiment Station Environmental Laboratory is the primary research, testing, and development facility of USACE. Its mission is to conceive, plan, study, and execute engineering investigations and research and development studies.
<b>Location:</b>	Vicksburg, Mississippi
<b>Speciality Areas:</b>	<ul style="list-style-type: none"> <li>• Dredging (Center for Contaminated Sediments)</li> <li>• Cultural preservation (Center for Cultural Site Preservation Technology)</li> <li>• Ecosystem modeling</li> <li>• Environmental information analysis</li> <li>• Environmental modeling simulation and research               <ul style="list-style-type: none"> <li>- land modeling, dredged material and disposal computer modeling, water quality modeling</li> </ul> </li> <li>• Long-term effects of dredging operations</li> <li>• Biotreatment</li> <li>• Characterization and monitoring of ecosystems</li> <li>• Phytoremediation</li> <li>• Threatened and endangered species</li> <li>• Water quality</li> <li>• Wetlands</li> <li>• Technical support for dredging operations</li> <li>• Conservation assistance program</li> <li>• Wetlands Regulatory Assistance Program (WRAP)</li> </ul>
<b>General Services Offered:</b>	<p>The laboratory can provide the following services nationwide:</p> <ul style="list-style-type: none"> <li>• Technical and regulatory assistance</li> <li>• Workshops, training opportunities, and seminars</li> <li>• Technology transfer</li> <li>• Research and development related to contaminated sediments</li> </ul>
<b>Point of Contact:</b>	John Keeley, Acting Director (601) 634-3477
<b>Internet Home Page:</b>	<< <a href="http://www.wes.army.mil/el/centers.html">http://www.wes.army.mil/el/centers.html</a> >>

<b>4.3 USACE CONSTRUCTION ENGINEERING RESEARCH LABORATORY</b>	
<b>Background:</b>	The USACE Construction Engineering Research Laboratory, established in 1969, researches and develops methods and technology aimed at increasing the efficient construction and the operation and maintenance of facilities (buildings), while ensuring environmental quality and safety at a reduced life-cycle cost.
<b>Members or Location:</b>	Champaign, Illinois
<b>Speciality Areas:</b>	Development of infrastructure and environmental sustainment technologies.
<b>General Services Offered:</b>	<p>The laboratory can provide the following services nationwide:</p> <p>Revitalization of facilities:</p> <ul style="list-style-type: none"> <li>• Seismic evaluation and rehabilitation for facilities</li> <li>• Redesign of facility delivery processes</li> <li>• Enduring building systems</li> <li>• Advanced infrastructure materials systems</li> <li>• Green building design</li> </ul> <p>Operations</p> <ul style="list-style-type: none"> <li>• Operation, maintenance, and repair technologies</li> <li>• Energy</li> </ul> <p>Conservation</p> <ul style="list-style-type: none"> <li>• Management of threatened and endangered species</li> <li>• Erosion control</li> <li>• Land use planning</li> <li>• Archeological resources</li> <li>• Historical structures</li> </ul>
<b>Point of Contact:</b>	Michael J. O'Connor, Director (217) 373-6714
<b>Internet Home Page:</b>	<< <a href="http://www.cecer.army.mil/">http://www.cecer.army.mil/</a> >>



<b>5.0 NONGOVERNMENT ORGANIZATIONS (TECHNICAL)</b>	
The nongovernment organizations described in this section have been established to provide a national program of basic and applied research, technology transfer, training, and outreach.	
<b>5.1 HAZARDOUS SUBSTANCE RESEARCH CENTERS</b>	
<b>Background:</b>	EPA has established the Hazardous Substance Research Centers (HSRC) program to develop better, cheaper, faster, and safer methods of assessing and cleaning up hazardous substances. HSRCs conduct their activities on a regional basis through five multiuniversity centers that focus on different aspects of the management of hazardous substances. The centers bring together researchers representing a variety of disciplines to collaborate on integrated research projects, involving both immediate practical problems of hazardous substance management and long-term exploratory research.
<b>Members or Location:</b>	<ul style="list-style-type: none"> <li>• The Northeast HSRC at the New Jersey Institute of Technology</li> <li>• The South/Southwest HSRC at Louisiana State University</li> <li>• The Great Lakes/Mid-Atlantic HSRC at the University of Michigan</li> <li>• The Great Plains/Rocky Mountain HSRC at Kansas State University</li> <li>• The Western Region HSRC at Stanford University</li> </ul>
<b>Source of Funding:</b>	The HSRCs were established competitively and are funded primarily by EPA, with additional funding from the Department of Energy (DOE) and DoD. The program also receives funding from academia, private industry, and other state and federal government agencies.
<b>Speciality Areas</b>	Research, technology transfer, and training
<b>General Services Offered:</b>	<ul style="list-style-type: none"> <li>• Provide the technical Outreach Services For Communities (TOSC) Program, a no-cost, nonadvocacy technical assistance program that has guided numerous communities through the environmental cleanup and site reuse process and: <ul style="list-style-type: none"> <li>- Answers questions about potential health effects and possible cleanup technologies for hazardous waste sites</li> <li>- Assists members of communities in becoming active participants in the decision-making process involved in cleaning up hazardous environments</li> <li>- Sponsors community workshops and provides educational material about human health, environmental risks, and regulatory concerns</li> </ul> </li> <li>• Provide the Technical Assistance to Brownfields (TAB) Program, which provides technical assistance and training to communities</li> <li>• Review and interpret technical documents and other materials</li> <li>• Sponsor workshops, short courses, and other learning experiences to explain basic science and environmental policy</li> <li>• Provide information to community members about existing technical assistance materials, such as publications, videos, and Web sites</li> <li>• Train community leaders in leadership and facilitation</li> <li>• Provide technical assistance materials tailored to the identified needs of a community in which brownfields properties are located</li> </ul>
<b>Process for Requesting Assistance:</b>	Localities can submit requests through the centers identified in sections 4.1 through 4.5 of this directory.
<b>Point of Contact:</b>	Dale Manty, Program Director (202) 564-6922 or <a href="mailto:manty.dale@epa.gov">manty.dale@epa.gov</a>
<b>Internet Home Page:</b>	<< <a href="http://www.hsrc.org">http://www.hsrc.org</a> >>

<b>5.1.1 The Northeast HSRC</b>	
<b>Background:</b>	The Northeast HSRC was established in 1989 to conduct basic and applied research, technology transfer, and training in EPA regions 1 and 2. The Northeast HSRC's research agenda reflects the attributes of regions 1 and 2, including its aging industrial base, dense population, economic activity, high concentration of chemical and pharmaceutical industries, and rapidly developing base of high-technology industry. Another factor that shapes the center's research focus is the large number of sites in the two regions that are on the National Priorities List (NPL) and that are affected by groundwater contamination.
<b>Members or Location:</b>	The New Jersey Institute of Technology, the Massachusetts Institute of Technology, Princeton University, Rutgers University, the Stevens Institute of Technology, Tufts University, and the University of Medicine and Dentistry of New Jersey
<b>Speciality Areas</b>	Technology transfer and application of innovative technologies
<b>General Services Offered:</b>	Development and demonstration of treatment and remediation technologies in four areas: <ul style="list-style-type: none"> <li>• Incineration and thermal treatment</li> <li>• Site characterization and monitoring</li> <li>• In-situ remediation</li> <li>• Ex-situ treatment processes</li> </ul>
<b>Point of Contact:</b>	Helen Gramcko (973) 596-5845
<b>Internet Home Page:</b>	<< <a href="http://www.cees.njit.edu/nhsrc/">http://www.cees.njit.edu/nhsrc/</a> >>

<b>5.1.2 The South/Southwest HSRC</b>	
<b>Background:</b>	The South/Southwest HSRC, established in 1991, conducts research and technology transfer activities designed to promote risk-based management and control of hazardous substances for EPA regions 4 and 6. This HSRC focuses its efforts on contaminated sediments and dredged materials that contain organic contaminants, metals, and conventional pollutants.
<b>Members or Location:</b>	Louisiana State University, the Georgia Institute of Technology, and Rice University
<b>Speciality Areas:</b>	Contaminated sediment
<b>General Services Offered:</b>	<p>Remediation of contaminated sediments and dredged materials, with projects focused on:</p> <ul style="list-style-type: none"> <li>• In-situ chemical mobilization processes in beds and confined disposal facilities</li> <li>• In-situ remediation</li> <li>• In-situ detection</li> </ul> <p>Research theme areas include:</p> <ul style="list-style-type: none"> <li>• Availability of contaminants in sediments</li> <li>• Biotransformation processes of contaminants in sediments</li> <li>• Science of risk management for sediments</li> <li>• Regional issues related to hazardous substances</li> </ul>
<b>Point of Contact:</b>	Danny D. Reible, Director (225) 388-6770
<b>Internet Home Page:</b>	<< <a href="http://www.hsrb.org/hsrc/html/south.html">http://www.hsrb.org/hsrc/html/south.html</a> >>
<b>5.1.3 Great Lakes/Mid-Atlantic HSRC</b>	
<b>Background:</b>	The Great Lakes/Mid-Atlantic HSRC, established in 1989, supports EPA regions 3 and 5 in addressing crucial issues related to hazardous substances. The center's efforts focus on the development and application of bioremediation technologies for contaminated soils and groundwater. Current research projects include studies of soil contaminant sorption, desorption, and sequestration properties.
<b>Members or Location:</b>	University of Michigan, Michigan State University, and Howard University
<b>Speciality Areas:</b>	Bioremediation
<b>General Services Offered:</b>	<ul style="list-style-type: none"> <li>• Improving understanding of fundamental processes of in-situ bioremediation</li> <li>• Distributing videos and publications about bioremediation</li> </ul>
<b>Point of Contact:</b>	Walter J. Weber, Director (313) 763-1464
<b>Internet Home Page:</b>	<< <a href="http://www.engin.umich.edu/dept/cee/research/HSRC/index.html">http://www.engin.umich.edu/dept/cee/research/HSRC/index.html</a> >>

<b>5.1.4 The Great Plains/Rocky Mountain HSRC</b>	
<b>Background:</b>	The Great Plains/Rocky Mountain HSRC, established in 1989, serves EPA regions 7 and 8. The center conducts research pertaining to hazardous substances produced through agriculture, forestry, mining, mineral processing, and other activities.
<b>Members or Location:</b>	Haskell Indian Nations University, Kansas State University, Lincoln University, Montana State University, South Dakota State University, the University of Iowa, the University of Missouri, the University of Montana, the University of Nebraska, the University of Utah, the University of Wyoming, Utah State University, Colorado State University, and the University of Northern Iowa
<b>Speciality Areas:</b>	Contaminated soils and mining wastes
<b>General Services Offered:</b>	Remediation of contaminated soils and mining wastes, with specific research interests that include: <ul style="list-style-type: none"> <li>• Soil and water contaminated with heavy metals</li> <li>• Soil and groundwater contaminated by organic chemicals</li> <li>• Wood preservatives that contaminate groundwater</li> <li>• Pesticides identified as hazardous substances</li> <li>• Improved technologies and methods of characterizing and analyzing contaminated soil</li> <li>• Methods of and technologies for waste minimization and pollution prevention</li> <li>• Phytoremediation</li> </ul>
<b>Point of Contact:</b>	Larry Erickson, Director (785) 532-2380
<b>Internet Home Page:</b>	<< <a href="http://www.engg.ksu.edu/HSRC/home.html">http://www.engg.ksu.edu/HSRC/home.html</a> >>

<b>5.1.5 Western Region HSRC</b>	
<b>Background:</b>	The Western Region HSRC, established in 1989, serves EPA regions 9 and 10. The objectives of the center are: (1) to promote the development of alternative and advanced physical, chemical, and biological processes for treatment of hazardous substances; (2) to disseminate the results of research to the industrial and regulatory communities; and (3) to promote a better understanding of the scientific capability to detect, assess, and mitigate risks associated with the use and disposal of hazardous substances. Groundwater cleanup and site remediation, with a strong emphasis on biological approaches, represent the major focus of the center's activities.
<b>Members or Location:</b>	Stanford University and Oregon State University
<b>Speciality Areas:</b>	Site remediation accomplished by biological approaches
<b>General Services Offered:</b>	<p>Research focuses on groundwater cleanup and site remediation, including:</p> <ul style="list-style-type: none"> <li>• Chlorinated and nonchlorinated solvents</li> <li>• Halogenated aromatic compounds such as pentachlorophenol and polychlorinated biphenyls (PCB)</li> <li>• Nonhalogenated aromatics including petroleum derivatives</li> <li>• Ordnance wastes, such as trinitrotoluene (TNT)</li> <li>• Heavy metals</li> <li>• Evaluation of factors that affect the transport and fate of the above chemicals in the environment</li> <li>• Design and management issues for site remediation</li> </ul>
<b>Point of Contact:</b>	Perry McCarty, Director (650) 723-4123
<b>Internet Home Page:</b>	<< <a href="http://www-seep-server.stanford.edu/SEEPWeb/wrsrc/">http://www-seep-server.stanford.edu/SEEPWeb/wrsrc/</a> >>

## 6.0 NONGOVERNMENT ORGANIZATIONS (INFORMATION)

Although the organizations may not provide direct “technical” support, they are included in the directory listed below as additional sources of information for brownfields localities. The organizations perform the work described with funding from EPA.

### 6.1 PUBLIC TECHNOLOGY, INC.

<b>Background:</b>	<p>In 1998, Public Technology, Inc. (PTI) entered into a cooperative agreement with EPA TIO to focus on the outreach of development, demonstration, and promotion of innovative characterization and remediation technologies for local governments. PTI was selected as a partner in the effort primarily for three reasons:</p> <ul style="list-style-type: none"> <li>• PTI’s membership: an extensive national network of local government officials allows PTI to reach technology decision makers at the local level</li> <li>• PTI’s 27 year track record of testing, promoting, and commercializing technology through its networks</li> <li>• PTI’s ability to work closely with its sponsoring organizations, The National League of Cities, the National Association of Counties, and the International City/County Management Association (ICMA), which provide PTI with its policy direction and which, working with PTI, reach more than 39,000 units of local government.</li> </ul>
<b>Location:</b>	Washington, D.C.
<b>Source of Funding:</b>	EPA
<b>Speciality Areas:</b>	Outreach and promotion of innovative characterization and remediation technologies
<b>General Services Offered:</b>	PTI provides an Internet home page to keep elected and appointed officials of local government and their professional, scientific, and technical staff up- to-date on innovations in the development and application of brownfields remediation technologies. The information can assist local governments in increasing efficiencies and reducing costs associated with reclamation and redevelopment of brownfields.
<b>Process for Requesting Assistance:</b>	Localities can contact the individuals listed below.
<b>Points of Contact:</b>	Ronda Mosely-Rovi, Director, Environmental Programs (202) 626-2455 or <i>mosley-rovi@pti.mw.dc.us</i> Steven Everett, Brownfields Coordinator (202) 626-2421 or <i>webmanager@brownfieldstech.org</i>
<b>Internet Home Page:</b>	<< <a href="http://brownfieldstech.org">http://brownfieldstech.org</a> >>

<b>6.2 CARNEGIE MELLON/UNIVERSITY OF PITTSBURGH BROWNFIELDS CENTER</b>	
<b>Background:</b>	The Carnegie Mellon/University of Pittsburgh Brownfields Center attempts to improve the brownfields revitalization process by enabling scholars in engineering, the social sciences, economics, and the arts to develop a comprehensive, multilevel understanding of the challenges community leaders face as they seek to return brownfields to productive use. By applying interdisciplinary research teams to all levels of the process, the center develops a collection of prototype decision support systems and distributes them to those working in brownfields redevelopment.
<b>Location:</b>	Pittsburgh, Pennsylvania
<b>Source of Funding:</b>	The University of Pittsburgh and Carnegie Mellon University and EPA
<b>Speciality Areas:</b>	Geographic information systems and information technology
<b>General Services Offered:</b>	<ul style="list-style-type: none"> <li>• Analysis of community perceptions of brownfields projects</li> <li>• Measurement of the costs and benefits of brownfields projects</li> <li>• Analysis of issues related to waterfront development</li> <li>• Analysis of issues related to transportation</li> </ul>
<b>Process for Requesting Assistance:</b>	Localities can submit requests to the point of contact below.
<b>Point of Contact:</b>	Deborah Lange, Director (412) 268-7121 or <a href="mailto:dlange@andrew.cmu.edu">dlange@andrew.cmu.edu</a>
<b>Internet Home Page:</b>	<< <a href="http://www.ce.cmu.edu/brownfields/">http://www.ce.cmu.edu/brownfields/</a> >>

<b>6.3 INSTITUTE FOR RESPONSIBLE MANAGEMENT</b>	
<b>Background:</b>	The Institute for Responsible Management (IRM) is a nonprofit 501 (c)(3) organization chartered to foster collaboration and cooperation between the public and private sectors on public policy issues related, but not limited, to environmental, public safety, and health concerns. For the past three years, IRM has been involved integrally in working with EPA brownfields pilot communities to show that cleanup and reuse strategies can be identified through coordination of local initiatives.
<b>Location:</b>	New Brunswick, New Jersey
<b>Source of Funding:</b>	EPA provides support to IRM for the conduct of research and the dissemination of information about its findings.
<b>Speciality Areas:</b>	Collecting and disseminating information
<b>General Services Offered:</b>	IRM maintains a database of products, programs, models, and tasks identified by each responding pilot program as components of its overall brownfields strategy. Brownfields pilot programs were asked to provide a brief description of each product, program, model, or task; indicate the status of its progress; and identify the appropriate contacts from whom additional information is available.
<b>Process for Requesting Assistance:</b>	Localities can submit requests to the point of contact listed below.
<b>Point of Contact:</b>	Chuck Powers, President (732) 296-1960, or <a href="mailto:cwpowers@instrm.org">cwpowers@instrm.org</a>
<b>Internet Home Page:</b>	<< <a href="http://www.instrm.org/index.html">www.instrm.org/index.html</a> >>



<b>6.4 INTERNATIONAL CITY/COUNTY MANAGEMENT ASSOCIATION</b>	
<b>Background:</b>	ICMA sponsors, develops, and implements a number of programs that provide managers and administrators in local governments with expertise on a variety of topics. One area in which ICMA can offer expertise is the Brownfields/Superfund Consortium, which helps local governments address the financial, legal, technical, and public health concerns associated with brownfields and Superfund sites. Membership in the consortium is not sold to individuals, but rather to cities or counties. Dues are based on population. The benefits of membership include opportunities for dialogue with EPA, Congress, and industry and access to information, resources and technical assistance from other members and ICMA staff.
<b>Location:</b>	Washington, D.C.
<b>Source of Funding:</b>	ICMA receives funding from EPA to help support the Brownfields/Superfund Consortium.
<b>Speciality Areas:</b>	Information and networking
<b>General Services Offered:</b>	<ul style="list-style-type: none"> <li>• Generate strategies or initiatives to solve problems related to brownfields</li> <li>• Conduct collaborative research and development on brownfields topics</li> </ul>
<b>Point of Contact:</b>	David Borak (202) 962-3506
<b>Internet Home Page:</b>	<< <a href="http://www.icma.org/">http://www.icma.org/</a> >>
<b>6.5 BROWNFIELDS NON-PROFITS NETWORK</b>	
<b>Background:</b>	The Brownfields Non-Profits Network is a network of nonprofit organizations that help to promote the redevelopment of brownfields properties throughout the United States. The network's Internet home page can assist community groups and other organizations in finding out more about what they can do with abandoned contaminated sites and where they can obtain help in their efforts.
<b>Members or Location:</b>	Members include such organizations as the National Brownfields Association, the Council for Urban Economic Development, and the Center for Land Renewal.
<b>Source of Funding:</b>	The Center for Land Renewal, with support from the Howard H. and Vira I. Heinz Foundation
<b>Speciality Areas:</b>	Information resource
<b>Points of Contact:</b>	Tom Colangelo, National Brownfields Association (847) 870-8208 or <a href="mailto:bfnews@flash.net">bfnews@flash.net</a> Ed Gilliland, Council for Urban Economic Development (202) 223-4735
<b>Internet Home Page:</b>	<< <a href="http://www.brownfieldsnet.org/">http://www.brownfieldsnet.org/</a> >>

**APPENDIX A**  
**OTHER RESOURCES**

## OTHER RESOURCES

EPA, ORD. 1998. Cost Estimating Tools and Resources for Addressing Sites Under the Brownfields Initiative, EPA/625/R-99/001. April.

EPA, ORD. 1999. Technical Approaches to Characterizing and Cleaning Up Automotive Repair Sites Under the Brownfields Initiative, EPA/625/R-98/008. February.

EPA, ORD. 1998. Technical Approaches to Characterizing and Cleaning Up Iron and Steel Mill Sites Under the Brownfields Initiative, EPA/625/R-98/007. December.

EPA, ORD. 1999. Technical Approaches to Characterizing and Cleaning Up Metal Finishing Sites Under the Brownfields Initiative, EPA/625/R-98/006. March.

EPA, OSWER. 1998. Quality Assurance Guidance for Conducting Brownfields Site Assessments, EPA 540-R-98-038. September.

EPA, OSWER. 1999. Road Map to Understanding Innovative Technology Options for Brownfields Investigation and Cleanup, Second Edition EPA-542-B-99-009.

EPA, OSWER. Tool Kit of Information Resources for Brownfields Investigation and Cleanup, CD-Rom.

**APPENDIX B**

**PROMOTING INNOVATIVE TECHNOLOGIES  
AT BROWNFIELDS SITES: FACT SHEET**