



Ground Water Remedial Technologies at Fractured Bedrock Sites

PROJECT DESCRIPTION

The U.S. Environmental Protection Agency's Technology Innovation Office (TIO), in cooperation with the Interstate Technology Regulatory Cooperation (ITRC) workgroup, is assembling information on efforts to identify and remediate contaminated ground water in fractured rock. The goal is to establish a series of 1 to 2 page site profiles that will identify the nature and extent of the contamination, geology affecting site assessment and remediation efforts, characterization and remediation actions taken or planned, and compile site contact information for potential users of these technologies. Our intent is to make this information available via the Internet to assist other professionals or site owners who may be addressing similar problems.



REMEDIAL ACTIVITIES AT FRACTURED BEDROCK SITES

To assist in information sharing, EPA is making a template available on the Internet in which key site information can be entered by the interested parties and stored for public review. The template should take no longer than 25 minutes to complete. The information will be screened by EPA and then shared with the public on the web site. Updates will be posted as information is received. The information may be particularly useful to state and Federal regulators or site owners who are involved in such sites.



SUBMITTING INFORMATION ON A FRACTURED BEDROCK SITE

STEP 1

Open your browser and go to
<http://clu-in.org/frackrock>

STEP 2

Scroll down to and click *Remedial Technologies of Fractured Bedrock Sites Online Template*

The screenshot shows the EPA Technology Innovation Office website. The header includes the EPA logo, the text 'United States Environmental Protection Agency', and 'Technology Innovation Office'. Navigation links include 'Home', 'About', 'Contact', 'Privacy', and 'Main Menu'. A search bar is present with a 'Jump' button. The main content area is titled 'Technology Innovation Office' and 'Current Remedial Technologies at Fractured Bedrock Sites'. It features a sidebar with links to 'Publications & Software', 'Remediation', 'Site Characterization', 'Partnerships & Consortia', 'International Updates', 'Vendor Support', and 'TechDirect'. The main text area includes a link to 'Literature References' and 'View Site Profiles'. Below this is the 'Inventory of Remedial Activities at Fractured Bedrock Sites' section, which contains a paragraph of text and a link to the 'Remedial Technologies of Fractured Bedrock Sites Online Template'.

SUBMITTING INFORMATION ON A FRACTURED BEDROCK SITE (CONTINUED)

STEP 3

Complete the form and press the button labelled
"SAVE DATA"

Required Information

- ✂ Site name
- ✂ Site location
- ✂ Contact information
- ✂ Site geology
- ✂ Major contaminants found (along with lateral and vertical extent of the plume)

Optional Information

- ✂ Site characterization technologies used or those which will be used
- ✂ Remedial technologies used or those which will be used
- ✂ Remediation goals
- ✂ Regulatory status

The screenshot shows the EPA Technology Innovation Office website. The header includes the EPA logo, 'United States Environmental Protection Agency', and 'Technology Innovation Office'. Navigation links include 'Search', 'Comments', 'Site Map', 'EPA Home', and 'Main Menu'. A 'Jump' button is available to navigate to a CLU-IN section. The main content area is titled 'Current Remedial Technologies of Fractured Bedrock Sites' and 'Remedial Technologies of Fractured Bedrock Sites Online Submission Form'. It includes a sidebar with links to 'Publications & Software', 'Remediation', 'Site Characterization', 'Partnerships & Consortia', 'International Updates', 'Vendor Support', and 'TechDirect'. The form itself has sections for 'Site Name and Location' (Site Name, City, State), 'Contact Information' (First Name, Last Name, Address Line 1, Address Line 2, City, State, Zip Code, Country), and 'Phone' and 'Fax' fields. A 'Briefly describe the geology of this site.' field is at the bottom.

FOR MORE INFORMATION . . .

Rich Steimle

Technology Innovation Office

U.S. Environmental Protection Agency

401 M Street, S.W. (5102G)

Washington, DC 20460

Phone: 703-603-7195

Fax: 703-603-9135

Email: steimle.richard@epa.gov

ABOUT THE TECHNOLOGY INNOVATION OFFICE

The Technology Innovation Office of the U.S. Environmental Protection Agency was created in 1990 to act as an advocate for new technologies. TIO's mission is to increase the applications of innovative treatment technologies to contaminated waste sites, soils, and groundwater. TIO has encouraged and relied on cooperative ventures with other partners to accomplish most of its early goals. This effort to leverage resources has lead to numerous joint efforts that have enhanced the state of remediation. Since its creation, TIO has worked with many partners inside EPA, in other federal agencies, and in the private sector to improve the Nation's understanding of remediation treatment technologies and reduce the impediments to their widespread use.