

Office of Superfund Remediation and Technology Innovation

1. Important issues for Superfund

Groundwater research needs:

- Economical detection methods for emerging contaminants in groundwater, such as perchlorate and 1,4-dioxane.
- Real-time and cost-effective screening tools and field characterization and monitoring methods for ground water contaminants.
- Characterization tools for evaluating vapor intrusion pathways from groundwater.
- Remediation technologies for DNAPL chlorinated solvents.

Mining Site Research Needs:

- Site characterization tools for acid mine drainage
 - Innovative and cost-effective remediation technologies for mining wastes, including uranium and asbestos-containing mine tailings.

Sediment Research Needs:

- Validation of surface water/sediment fate and transport and food chain models.
 - Methods to accurately evaluate releases from upland sources and recontamination of sediments.
 - In-situ treatment and innovative containment technologies for contaminated sediment.
 - Method for evaluating impacts on ecological and human health risk from contaminant releases and sediment residuals from dredging.

Community Involvement and Outreach Priorities

- Measuring value of public involvement

2. Lists of Contacts

- Community Involvement Coordinators (CICs) (please contact Lois Gartner for the list of contacts, gartner.lois@epa.gov)
- Regional Risk Assessors (please contact Jayne Michaud, michaud.jayne@epa.gov)
- Superfund Program Office Contacts: Jayne Michaud, Doug Ammon (ammon.doug@epa.gov), and Betsy Southerland (southerland.elizabeth@epa.gov)
- OSRTI coordinates Superfund research plans with EPA Office of Research and Development, contact Randy Wentzel (wentzel.randy@epa.gov)
- Tribal issues: Felicia Wright (wright.felicia@epa.gov)

3. "Upcoming" Events

2007 Conference

<http://www.epa.gov/superfund/action/community/ciconference/>

4. Examples of Resources:

<http://www.epa.gov/superfund/tools/tag/>

<http://www.epa.gov/superfund/action/community/involvement.htm>

<http://www.atsdr.cdc.gov/> ATSDR communication materials (ToxFAQs)

List of priorities provided in a letter to NIEHS from Dr. Elizabeth Southerland, Director, Assessment and Remediation Division, Office of Superfund Remediation and Technology Innovation (OSRTI) August 2006

OSRTI Research and Program Priorities for 2006 SBRP Request for Applications (RFA)

Research Priorities

- Asbestos toxicity, sampling and analytical methods
- Groundwater remediation technologies, i.e., permeable reactive barriers for inorganic compounds
- Mining site remediation technologies
- Contaminated sediment treatment and containment technologies

Program Needs

EPA recommends that future RFAs clarify the expectations for research translation and coordination with EPA:

Research Translation

- Translate research findings quickly into methods and technologies that improve the efficiency of site characterization, remediation and achievement of cleanup goals.
- Relate biomedical research findings to specific health effects or risk assessment applications.
- Relate non-biomedical research to remediation technology applications.

Grantee Coordination with EPA

- Include requirement in RFA for grantees to coordinate with EPA particularly when projects involve Superfund site study and outreach.