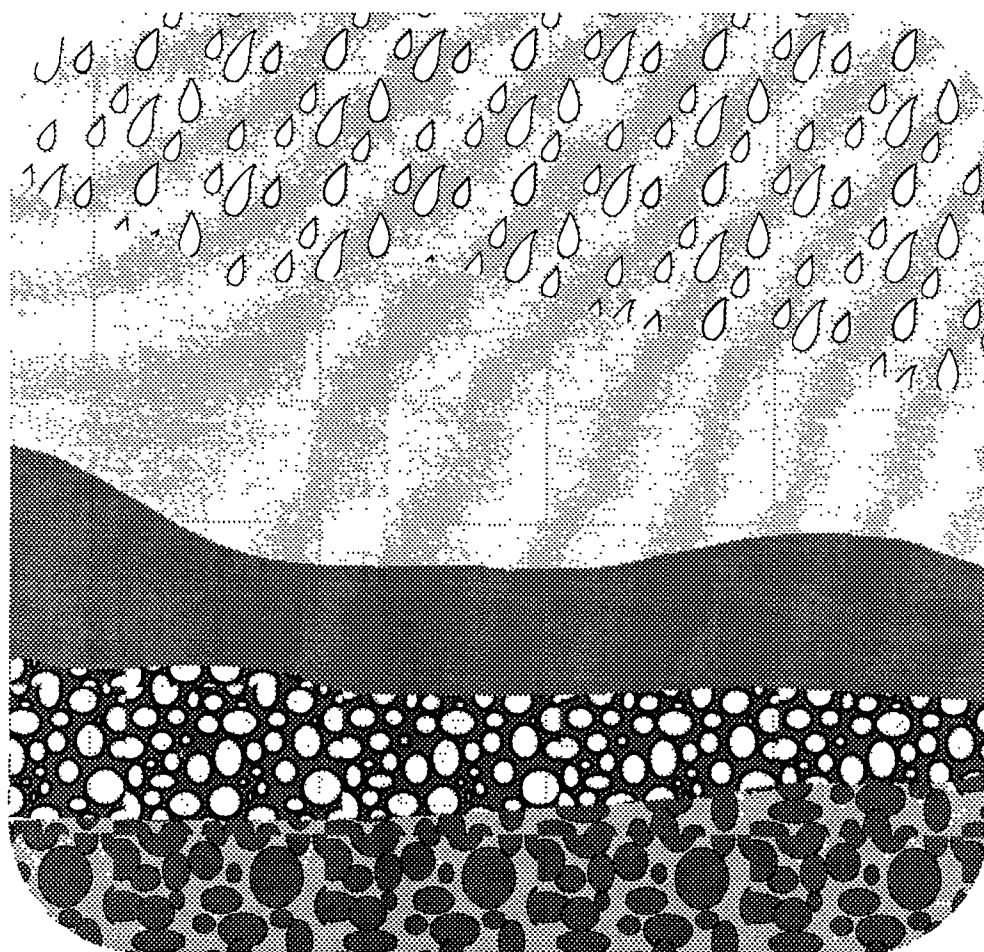




# Ground-Water Research

## Technical Assistance Directory



# **Environmental Protection Agency GROUND-WATER RESEARCH**

## **Technical Assistance Directory**

Prepared for the

Office of Research and Development  
Office of Technology Transfer and Regulatory Support  
U.S. Environmental Protection Agency  
Washington, D.C. 20460

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(241-3-02)

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May 17, 1989

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## 1. INTRODUCTION

This Directory, a revision of the first edition (EPA/600/9-87/008) published by ORD in March 1987, is intended to foster communication among scientists and engineers throughout EPA's Office of Research and Development (ORD) and among EPA, state, and local personnel involved in the protection and management of ground-water resources. In addition to listing ORD researchers by location and subject matter, the Directory provides brief organizational descriptions of the ground-water research programs for each ORD office. These descriptions may aid in locating assistance in areas not covered by the subject indices.

The scientists and engineers listed in this Directory conduct or manage research, development, demonstration, and technical assistance projects to support the regulatory programs of the Office of Water, the Office of Solid Waste and Emergency Response, and the Office of Pesticides and Toxic Substances. To ensure cross-office integration of research programs, in 1987 ORD designated a Ground-Water Research Matrix Manager to coordinate ORD, Program Office, and Regional input on issues and priorities in the areas of prediction, monitoring, and cleanup. The Matrix Manager supplements the various Research Committees, which advise the Assistant Administrator for Research and Development on research and budget priorities. ORD's Director of the Office of Technology Transfer and Regulatory Support is currently the Matrix Manager.

ORD is organized into seven offices (plus an administrative office; see chart on page 4) with responsibility for designing and managing all of EPA's research. Most of EPA's ground-water research is conducted by three offices:

- ◆ the Office of Environmental Processes and Effects Research (OEPER) conducts a broad spectrum of studies into the physical, chemical, and biological processes that affect the subsurface environment and the eventual fate of natural and contaminant compounds. Most of OEPER's ground-water modeling, fate, and transport research is conducted through its laboratories in Ada, Oklahoma, and Athens, Georgia.
- ◆ the Office of Modeling, Monitoring Systems, and Quality Assurance (OMMSQA), primarily through its Environmental Monitoring Systems Laboratory in Las Vegas, Nevada, is EPA's center for research into subsurface monitoring methods, geophysical and other remote sensing, ground-water sampling design, and quality assurance.
- ◆ the Office of Environmental Engineering and Technology Demonstration (OEETD) conducts a related program of research in source control and construction quality assurance through its Risk Reduction Engineering Laboratory in Cincinnati, Ohio.

More detailed descriptions of these laboratories and other centers for ground-water research are found in the next section.

EPA derives its authority to protect ground water from the Clean Water Act, the Comprehensive Environmental Response, Compensation, and Liability Act (Superfund), the Safe Drinking Water Act, the Resource Conservation and Recovery Act, the Federal Insecticide, Fungicide, and Rodenticide Act, the Toxic Substances Control Act, the Hazardous and Solid Waste Amendments of 1984, and the Superfund Amendments and Reauthorization Act of 1986. In response to these broad statutory mandates, in 1984 EPA's Office of Ground-Water Protection developed a Ground-Water Protection Strategy to give the Agency's program a focus and direction. It has four components:

- ◆ Short-term build-up of institutions at the state level.
- ◆ Assessment of problems that may exist from unaddressed sources of contamination including leaking storage tanks, surface impoundments, and landfills.
- ◆ Issuance of guidelines for ground-water protection and cleanup.

- ◆ Strengthening EPA's organization to improve ground-water management at the headquarters and regional levels and EPA's cooperation with Federal and state agencies.

ORD's ground-water research program, reflecting the information needs of EPA's operating programs, consists of five elements:

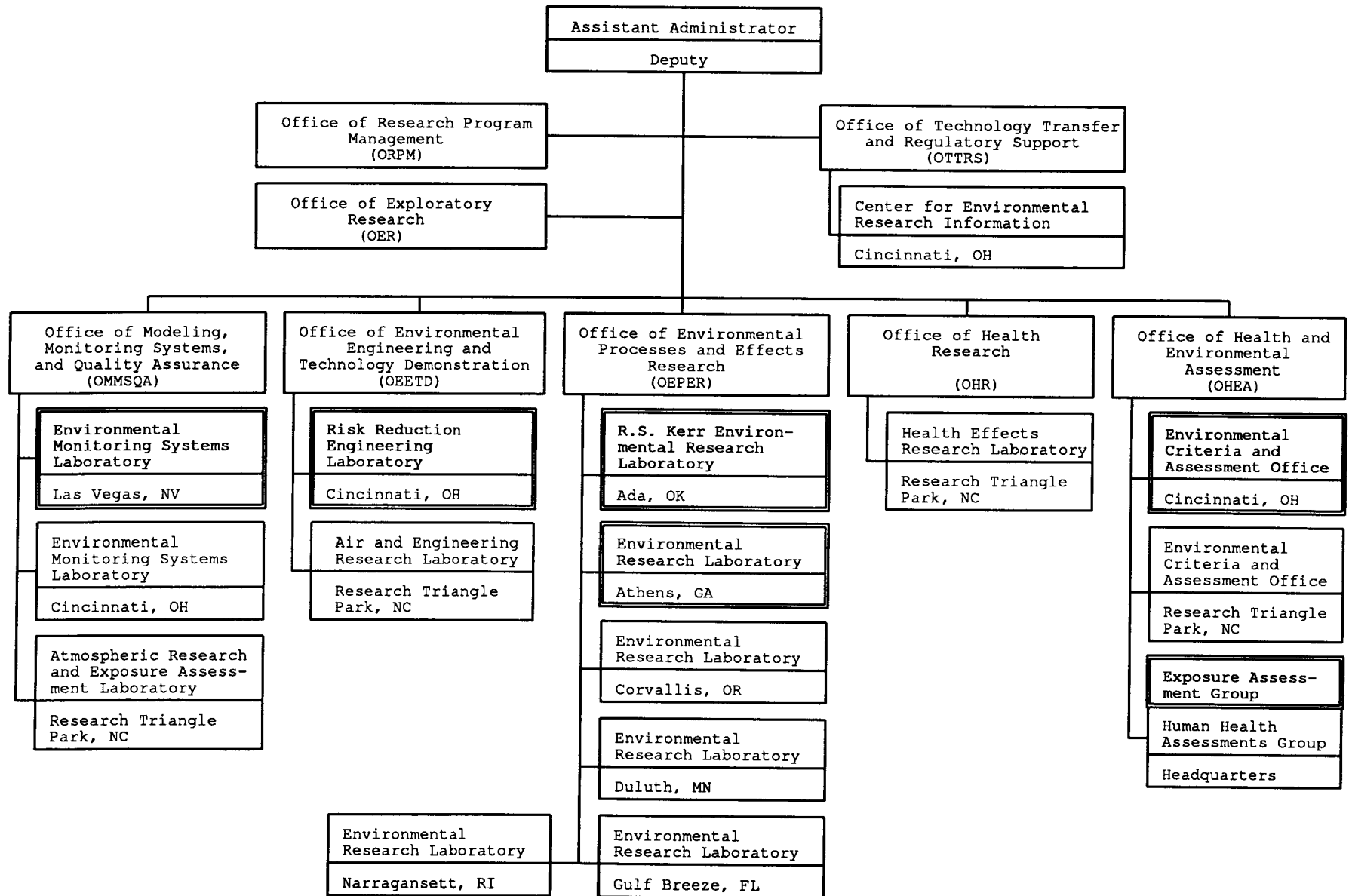
- ◆ *Transport and transformation.* The physical movement of ground water in the saturated and unsaturated zones and also the change in ground-water quality either through natural degradation or differential transport rates.
- ◆ *Monitoring.* Well-placement and sampling of the subsurface environment to locate and characterize potential or known ground-water contamination.
- ◆ *On-site and in situ aquifer cleanup.* Restoring a polluted aquifer through physical removal, chemical treatment, and enhanced biodegradation.
- ◆ *Technical assistance and technology transfer.* Preparation and dissemination of information about current research to decision makers, field managers, the regulated communities, and the scientific community.
- ◆ *Source control.* While not strictly ground-water research, the directory includes control of discharges, leaks, and other surface and underground contaminant sources to prevent ground-water contamination, including regulated hazardous waste disposal sites, unregulated dump sites, underground tanks, and accidental spills.

This directory is not intended to be a comprehensive compendium of all ground-water contacts and activities within the Agency, but should serve to identify an initial contact in most technical or policy areas. Many Program Offices produce or manage directories, hotlines, or technology support activities related to ground water. Some of the most comprehensive are listed in Section 6.

## **2. ORD GROUND-WATER RESEARCH FACILITY DESCRIPTIONS**

# Office of Research and Development

U.S. Environmental Protection Agency



**ORD Headquarters Ground-Water Research Matrix Management Work Group**  
Office of Research and Development  
United States Environmental Protection Agency  
401 M Street, SW  
Washington, DC 20460

Amy Mills (Chair)  
FTS 382-7891  
202-382-7891  
Mail Code: H-8105

Office of Technology Transfer  
and Regulatory Support

Jim Basilico  
FTS 382-2583  
202-382-2583  
Mail Code: RD-681

Office of Environmental Engineering  
and Technology Demonstration

(Curtis Harlin, Alternate)

Steve Cordle  
FTS 382-5940  
202-382-5940  
Mail Code: RD-682

Office of Environmental Processes and  
Effects Research

(Barbara Levinson, Alternate)

Randy Bond  
FTS 382-5881  
202-382-5881  
Mail Code: RD-683

Office of Health Research

Vern Laurie  
FTS 382-5795  
202-382-5795  
Mail Code: RD-680

Office of Modeling, Monitoring Systems,  
and Quality Assurance

Malcolm Field  
FTS 475-4921  
202-475-4921  
Mail Code: RD-689

Office of Health and Exposure Assessment

**ORD Laboratory Work Group Members**  
(See following pages for addresses and telephone numbers)

James McNabb  
R.S. Kerr Laboratory, Ada, Oklahoma

Joseph DLugosz  
Environmental Monitoring Systems Laboratory, Las Vegas, Nevada

Lee Mulkey  
Environmental Research Laboratory, Athens, Georgia

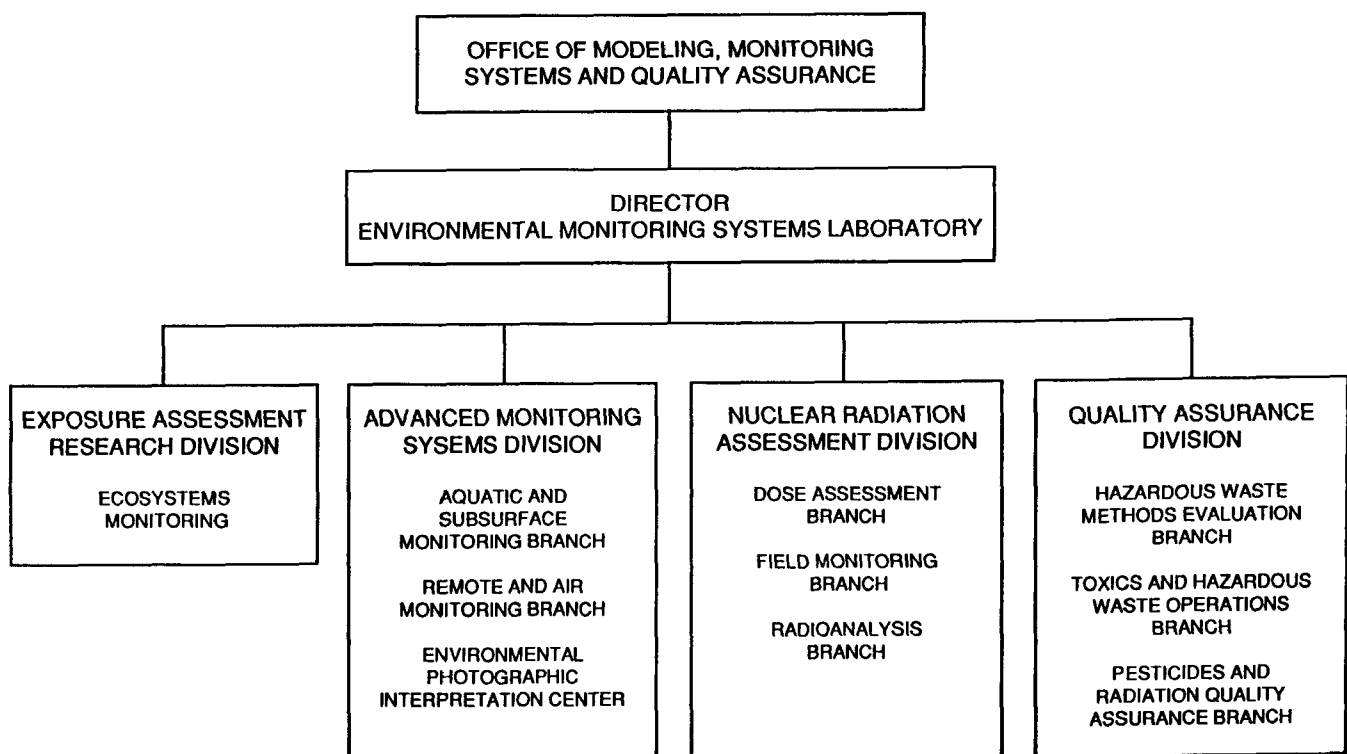
John Convery  
Risk Reduction Engineering Laboratory, Cincinnati, Ohio



**Environmental Monitoring Systems Laboratory**  
Office of Modeling, Monitoring Systems, and Quality Assurance  
U.S. Environmental Protection Agency  
P.O. Box 15027, Las Vegas, Nevada 89114  
FTS 545-2525, (702) 798-2525

The Aquatic and Subsurface Monitoring Branch of the Environmental Monitoring Systems Laboratory in Las Vegas (EMSL-LV) conducts ground-water monitoring research and provides technical assistance to support EPA operating programs. EMSL-LV also operates the *Superfund Monitoring and Site Characterization Technology Support Center*. Ground-water related research includes:

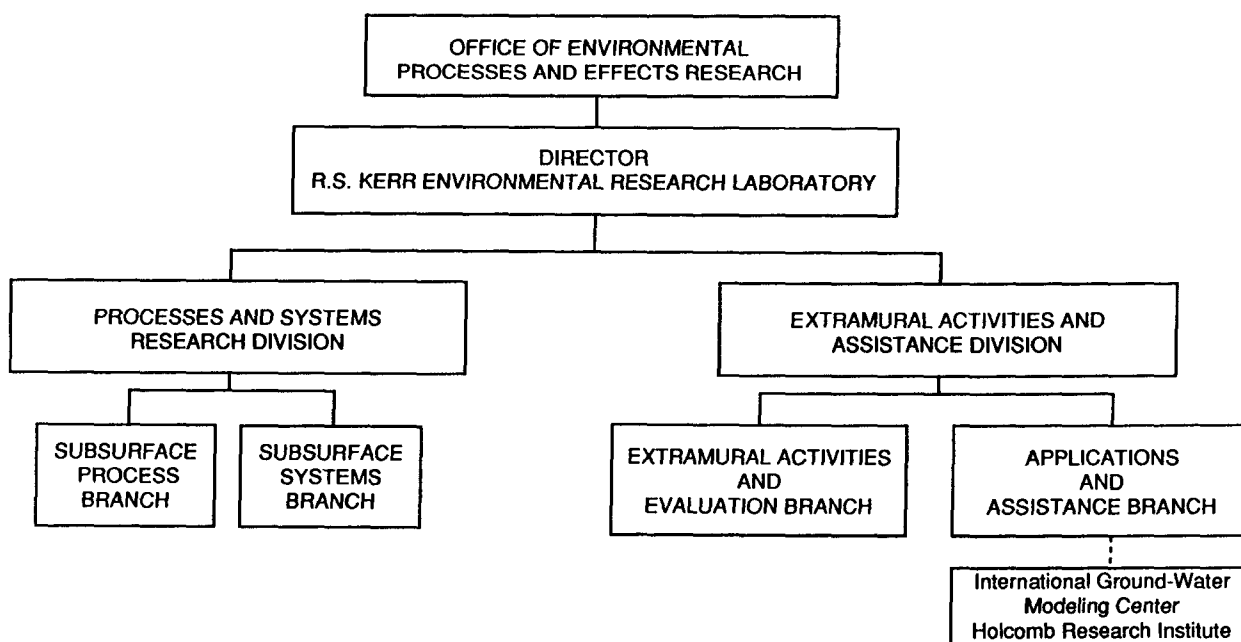
- ◆ Development, testing, and application of geophysical and geochemical techniques for detecting and mapping shallow contaminant plumes, locating abandoned wells, and mapping deeply buried contaminant plumes associated with injection wells.
- ◆ Development of advanced technologies, including fiber-optics and laser-fluorescence spectroscopy, for *in situ* ground-water contamination monitoring.
- ◆ Evaluation of indicator parameters for RCRA ground-water contaminant detection monitoring.
- ◆ Development of vadose-zone monitoring technologies to detect percolation of pollutants from hazardous wastes.
- ◆ Development of industry-specific parameters to give reliable indication of subsurface leaking.
- ◆ Evaluation of the influence of seasonal variability, well placement, spatial variability, and monitoring-well construction methods on water quality data from drinking water monitoring wells.
- ◆ Evaluation of underground storage tank external leak detection monitoring methods.
- ◆ Assistance to field teams in the use of geophysical methods in hazardous waste site investigations.



**Robert S. Kerr Environmental Research Laboratory**  
Office of Environmental Processes and Effects Research  
U.S. Environmental Protection Agency  
P.O. Box 1198, Ada, Oklahoma 74820  
FTS 743-2224, (405) 332-8800

The Robert S. Kerr Environmental Research Laboratory (RSKERL) is entirely devoted to ground-water research, concentrating on studies of the transport and fate of contaminants in the subsurface, development of methodologies for protection and restoration of ground-water quality, and evaluation of the applicability and limitations of using natural soil and subsurface processes for the treatment of hazardous wastes. The core of RSKERL's program is research into the hydrologic, biotic, and abiotic processes that govern the transport and fate of contaminants in the subsurface. This provides the scientific foundation for further application-oriented research in support of EPA operating programs. RSKERL's current research concentrates on:

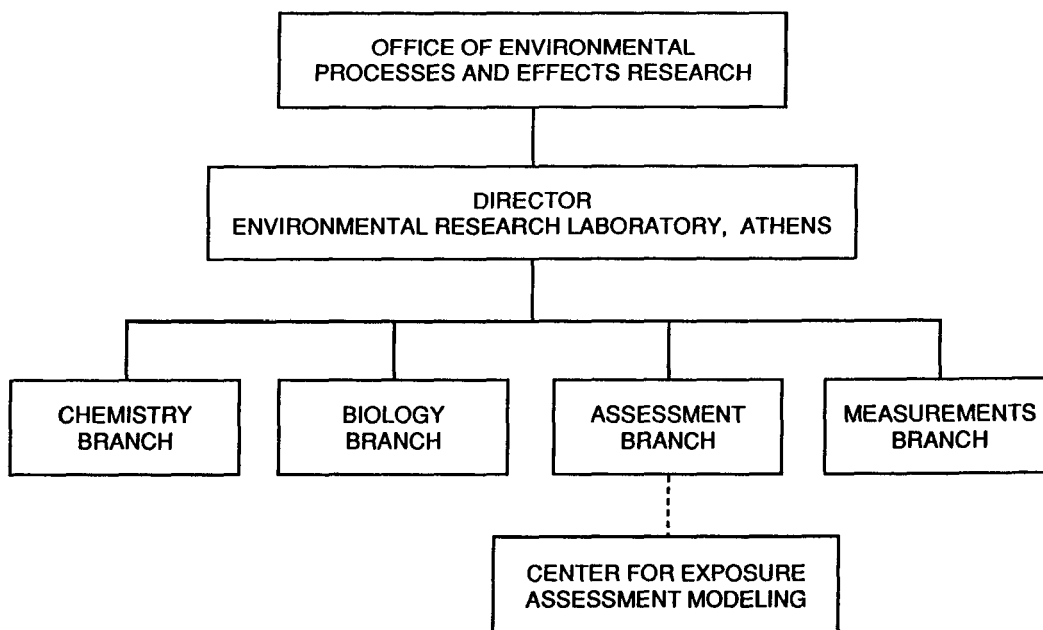
- ◆Determining the mechanical integrity of injection wells for the Underground Injection Control Program.
- ◆Developing methods for aquifer restoration and demonstrating reliable management of subsurface treatment systems applicable to various climates, soil types, waste characteristics, and degrees of pretreatment.
- ◆Coordinating ORD's multi-laboratory efforts in wellhead protection research, including methods to determine assimilative capacities of recharge areas.
- ◆Evaluating remediation technologies, including natural soil and subsurface systems for the attenuation and degradation of wastes.
- ◆Providing evaluations, direct technical assistance, and technical training courses, conferences, and symposia.
- ◆Supports the operations of the International Ground-Water Modeling Center at the Holcomb Research Institute in Indianapolis, Indiana, through a cooperative agreement. The IGWMC operates a clearinghouse for ground-water modeling software, organizes and conducts short-courses and seminars, and conducts a modeling research program to support the Center's technology transfer and educational activities which includes organizing and conducting specially designed training programs.



**Environmental Research Laboratory**  
Office of Environmental Processes and Effects Research  
U.S. Environmental Protection Agency  
College Station Road, Athens, Georgia 30613  
FTS 250-3134, (404) 546-3134

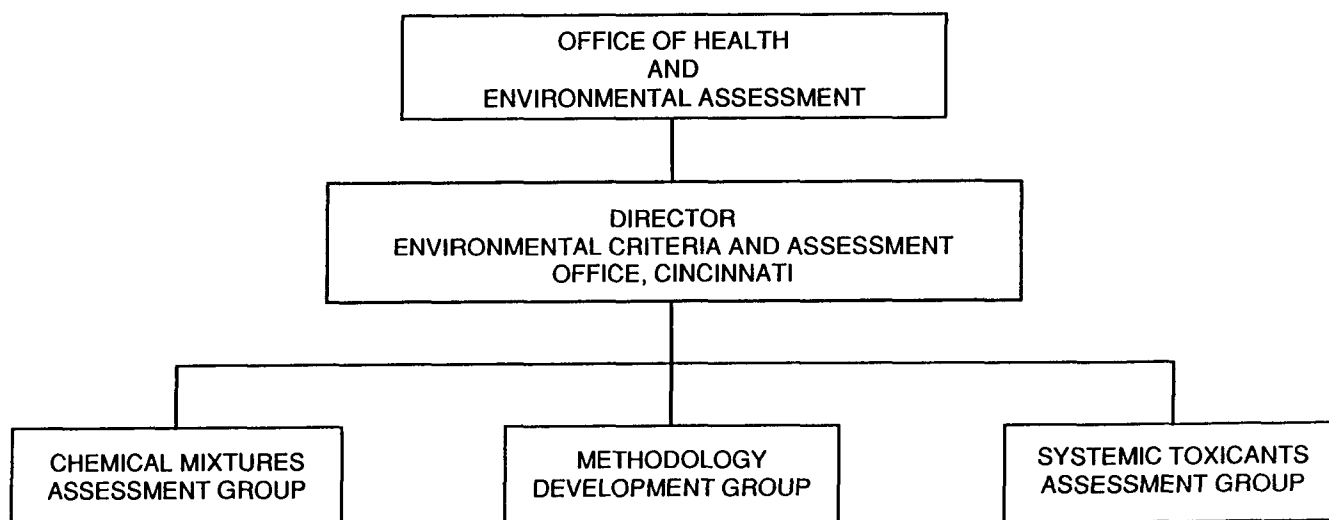
The Athens Environmental Research Laboratory (ERL-Athens) conducts basic and applied research to assess the human and environmental exposures associated with conventional and toxic pollutants in water and soil ecosystems. The laboratory's Center for Exposure Assessment Modeling (CEAM) distributes and supports computer programs for selected models and provides training and assistance to users. CEAM also maintains an electronic bulletin board with latest versions of the models and user support. Ground-water related research activities include:

- ◆ Identification and characterization of significant physical, chemical, and biological processes affecting ground water to predict transformation products, the rate and extent of subsurface transport, and the distribution of pesticides, hazardous wastes, and their constituents in saturated- and unsaturated-soil environments.
- ◆ Development of measurement protocols and data bases for chemical-specific properties, process-rate constants, and environmental properties that govern pollutant exposure, impact, and risk in soils and ground-water environments.
- ◆ Development of multimedia models and methods to predict the release, transport, and fate of pesticides, hazardous wastes, and toxic substances for the full range of exposure and risk assessment scenarios relevant to regulatory programs.
- ◆ Reduction of prediction uncertainties through field validations and the application of uncertainty-analysis techniques to developed models and methodologies.
- ◆ Multispectral identification of organic compounds that remain unidentified after application of conventional mass-spectrometric techniques.



**Environmental Criteria and Assessment Office**  
Office of Health and Environmental Assessment  
U.S. Environmental Protection Agency  
26 W. St. Clair, Cincinnati, Ohio 45268  
FTS 684-7531, (513) 569-7531

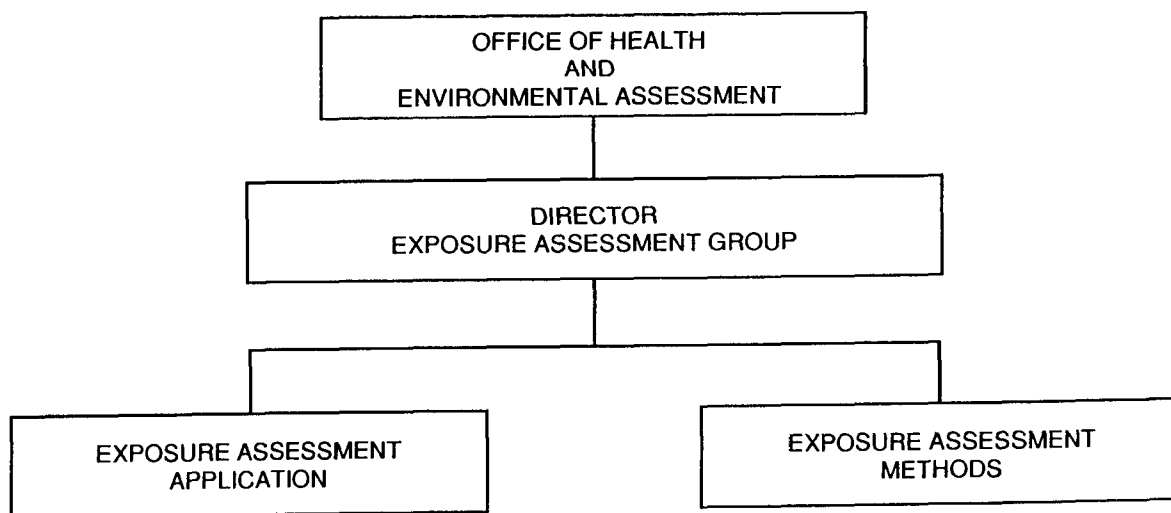
The Environmental Criteria and Assessment Office in Cincinnati (ECAO-CIN) has developed ground-water risk assessment methodologies (GRAMs) in support of the Office of Water regulations for municipal sludge landfill and land application programs (*Clean Water Act §405(d)*). The GRAMs assist in evaluating risks of human exposure from ground-water contamination resulting from various disposal practices. ECAO-CIN is also developing GRAMs for the municipal waste combustion programs of the Office of Air Quality Planning and Standards and the Office of Solid Waste. The Chemical Mixtures Assessment group prepares background documents and technical support on risk assessment activities under CERCLA and RCRA. The Methods Evaluation and Development group coordinates risk assessment methods for chemical mixtures and systemic toxicity and maintains the Integrated Risk Information System (IRIS). The Systemic Toxicants Assessment group prepares background documents on human health risk assessments under the Clean Water Act and the Solid Waste Disposal Act.



**Exposure Assessment Group**  
Office of Health and Environmental Assessment  
U.S. Environmental Protection Agency  
401 M Street, S.W., Washington, D.C. 20460  
FTS 475-8909, (202) 475-8909

The Exposure Assessment Group (EAG) research program focuses on predicting human exposure risks from hazardous materials. The Exposure Assessment Applications group applies exposure assessment methods to site-specific cases, including reviewing Regional Superfund risk assessments. The Exposure Assessment Methods group develops exposure assessment methods and coordinates the development of Agency-wide guidelines on exposure assessment. Current ground-water priorities include:

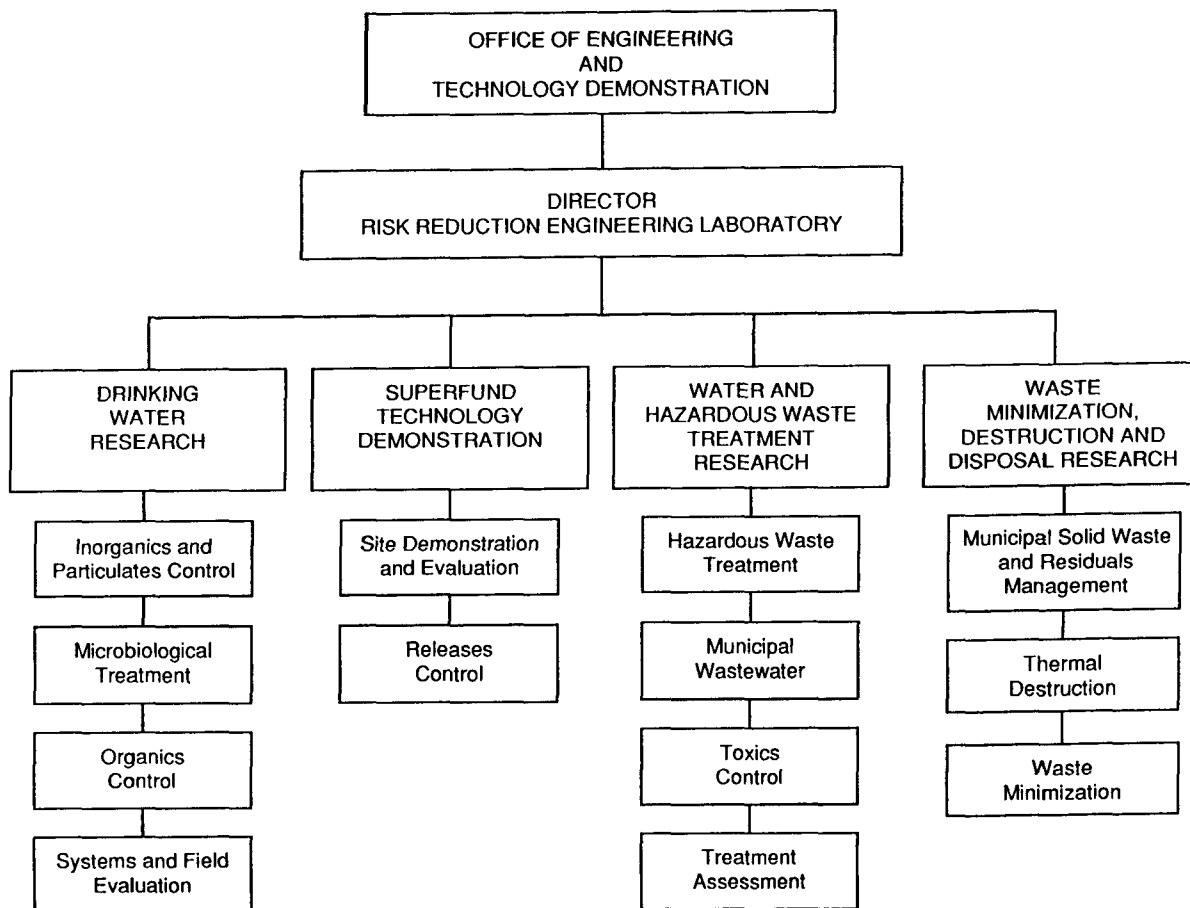
- ◆ Characterization of contaminant dispersion in ground water are being evaluated using data from recent field experiments to develop a realistic approach to modeling dispersive transport in exposure assessments.
- ◆ Criteria for the selection of mathematical models that can be applied to exposure assessments are being developed. Use of the criteria will help eliminate the use of inappropriate models for estimating contaminant migration in ground water.
- ◆ A technical support document is being prepared to help select ground-water fate and transport models for quick assessments as well as for detailed analyses.
- ◆ The EAG is conducting experimental studies to investigate the migration characteristics of concentrated organics in ground water for use in developing two-phase transport models.



**Risk Reduction Engineering Research Laboratory**  
Office of Environmental Engineering and Technology Demonstration  
U.S. Environmental Protection Agency  
26 W. Martin Luther King, Cincinnati, Ohio 45268  
FTS 684-7418, (513) 569-7418

The Risk Reduction Engineering Research Laboratory's (RREL) ground-water research and technical assistance programs are conducted by the Water and Hazardous Waste Treatment Research Division (WHWTRD), the Waste Minimization, Destruction, and Disposal Research Division (WMDRD), and the Superfund Technology Demonstration Division (STDD). RREL also operates the Superfund Engineering and Treatment Technology Support Center. RREL's activities concentrate on developing methods to prevent the contamination of ground water by controlling surface pollutant sources. RREL research and technical assistance programs fall into three major areas:

- ◆ Water and hazardous-waste disposal technology development, including research on cover systems, waste leaching, waste solidification and stabilization, flexible membrane liners, clay soil liners, construction quality assurance and quality control, expert systems, and "Subtitle D" facility waste characterization.
- ◆ Remedial-technology development and technical assistance, including Superfund site and situation assessments, verification of remedial action design and implementation projects, development of on-site cleanup and *in situ* treatment technologies, development of personnel protection techniques, and other technical assistance services necessary to support an increasingly field-oriented program.
- ◆ Prevention and control of hazardous releases including development of technologies to allow emergency response personnel to prevent, contain, and clean up hazardous releases, and development of technologies for the prevention and control of releases from underground storage tanks.





### **3. TECHNICAL ASSISTANCE CONTACTS BY RESEARCH FACILITY**



## ENVIRONMENTAL MONITORING SYSTEMS LABORATORY - LAS VEGAS

Doug Bedinger Aquatic and Subsurface Monitoring Branch FTS 798-2389 702-798-2389	Hydrogeology Aquifer test analysis
Regina Bochicchio Aquatic and Subsurface Monitoring Branch FTS 545-2150 702-798-2656	Geophysics
Jane Denne Aquatic and Subsurface Monitoring Branch FTS 545-2655 702-798-2655	Well construction Sampling techniques
Joe DLugosz, Chief Aquatic and Subsurface Monitoring Branch FTS 545-2598 702-798-2598	Hydrogeology
Phil Durgin Aquatic and Subsurface Monitoring Branch FTS 545-2623 702-798-2623	Underground storage tank external leak-detection monitoring
Larry Eccles Aquatic and Subsurface Monitoring Branch FTS 545-2385 702-798-2385	Vadose zone monitoring <i>In situ</i> monitoring methods development Soil gas monitoring
William Englemann Aquatic and Subsurface Monitoring Branch FTS 545-2656 702-798-2656	Geochemistry Water well technology
Steve Gardner Aquatic and Subsurface Monitoring Branch FTS 545-2366 702-798-2366	Ground-water monitoring methods standardization/Quality Assurance Indicator parameters/seasonal variation Monitoring strategies
Larry Jack Aquatic and Subsurface Monitoring Branch FTS 545-2367 702-798-2367	Geophysics (SCAP)
Eric Koglin Aquatic and Subsurface Monitoring Branch FTS 545-2432 702-798-2432	Fractured bedrock Well placement
Aldo Mazzella Aquatic and Subsurface Monitoring Branch FTS 545-2254 702-798-2254	Geophysical methods devel. & eval. CERCLA site investigation Underground injection control monitoring

Ken Scarbrough  
Aquatic and Subsurface Monitoring Branch  
FTS 545-2645  
702-798-2645

Fluid levels in underground injection  
wells

## ROBERT S. KERR ENVIRONMENTAL RESEARCH LABORATORY

*Bert Bledsoe Applications and Assistance Branch FTS 743-2324 405-332-8800	Inorganic chemistry Metals transport
*Dominic DiGiulio Applications and Assistance Branch FTS 743-2324 405-332-8800	Hydrology Modeling Contaminant transport
*Donald Draper Applications and Assistance Branch FTS 743-2202 405-332-8800	Hydrogeology Underground injection (UIC)
*Scott Huling Applications and Assistance Branch FTS 743-2313 405-332-8800	Land treatment RCRA Modeling
*Lowell Leach Applications and Assistance Branch FTS 743-2333 405-332-8800	Subsurface sampling Land treatment of wastewaters Underground injection monitoring
*John Matthews Applications and Assistance Branch FTS 743-2233 405-332-8800	Toxicity testing Land treatment of hazardous wastes
*Randall Ross Applications and Assistance Branch FTS 743-2355 405-332-8800	Hydrogeology Modeling Wellhead Protection
*Marion (Dick) Scalf, Chief Applications and Assistance Branch FTS 743-2308 405-332-8800	Wellhead protection Monitoring
*Jerry Thornhill Applications and Assistance Branch FTS 743-2310 405-332-8800	Underground injection Hydrogeological investigations
Frank Beck Subsurface Systems Branch FTS 743-2293 405-332-8800	Soil science

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\*The Applications and Assistance Branch is the focus for technical assistance and technology transfer in RSKERL. When calling for technical assistance, please first contact the specialists in the Applications and Assistance Branch (listed first and starred) who will either answer your questions or direct you to the appropriate researcher.

Dermont Bouchard Subsurface Systems Branch FTS 743-2321 405-332-8800	Abiotic processes
Margaret A. Butorac Technical Program Assistant International Ground-Water Modeling Center Holcomb Research Institute 317-283-9458	Short course coordination Newsletter production Publication & software distribution
Jong Cho Subsurface Systems Branch FTS 743-2353 405-332-8800	Contaminant transport modeling Multiphase transport
Don Clark Subsurface Processes Branch FTS 743-2311 405-332-8800	Inorganic analytical chemistry
Roger Cosby Subsurface Processes Branch FTS 743-2320 405-332-8800	Organic analytical chemistry
Wayne Downs Subsurface Systems Branch FTS 743-2320 405-332-8800	Contaminant transport modeling Biotransformations
William Dunlap, Chief Subsurface Processes Branch FTS 743-2314 405-332-8800	Transport and fate of organics
Carl Enfield, Director Processes & Systems Research Division FTS 743-2310 405-332-8800	Contaminant transport modeling
Stephen Hutchins Subsurface Processes Branch FTS 743-2327 405-332-8800	Biotransformations
Jerry Jones Extramural Activities & Evaluation Branch FTS 743-2251 405-332-8800	Underground storage tanks Aquifer restoration Water chemistry
Don Kampbell Subsurface Processes Branch FTS 743-2358 405-332-8800	Soil chemistry

Douglas Kreis Extramural Activities & Evaluations Branch FTS 743-2303 405-332-8800	Ecological effects
James McNabb Extramural Activities & Evaluation Branch FTS 743-2216 405-332-8800	Virus transport Wellhead protection
Dennis Miller Subsurface Processes Branch FTS 743-2263 405-332-8800	Immiscible flow Vapor transport
Susan Mravik Subsurface Systems Branch FTS 743-2434 405-332-8800	Soil science
Fred Pfeffer Subsurface Systems Branch FTS 743-2305 405-332-8800	Inorganic analytical chemistry
Robert Puls Subsurface Systems Branch FTS 743-2262 405-332-8800	Geochemistry Metals transport
Stephen Schmelling Subsurface Systems Branch FTS 743-2315 405-332-8800	Contaminant transport modeling Fractured flow
Guy Sewell Subsurface Processes Branch FTS 743-2232 405-332-8800	Biotransformations
Thomas Short Subsurface Systems Branch FTS 743-2292 405-332-8800	Contaminant transport modeling
Garmon Smith Subsurface Processes Branch FTS 743-2316 405-332-8800	Organic analytical chemistry
Robert Smith Subsurface Processes Branch FTS 743-2352 405-332-8800	Biological analyses

Paul K.M. van der Heijde Director, International Ground-Water Modeling Center Holcomb Research Institute 317-283-9458	Groundwater modeling research and training
David Walters Subsurface Systems Branch FTS 743-2261 405-332-8800	Soils Modeling
Candida West Subsurface Systems Branch FTS 743-2257 405-332-8800	Abiotic processes
James Weaver Subsurface Systems Branch FTS 743-2420 405-332-8800	Contaminant transport modeling Multiphase transport
John Wilson Subsurface Processes Branch FTS 743-2259 405-332-8800	Subsurface microbiology <i>In situ</i> biore Restoration
Lynn Wood Subsurface Processes Branch FTS 743-2304 405-332-8800	Subsurface abiotic processes

## ENVIRONMENTAL RESEARCH LABORATORY - ATHENS

Robert B. Ambrose Center for Exposure Assessment Modeling FTS 250-3130 404-546-3130	Model applications
Leo V. Azarraga Chemistry Branch FTS 250-3453 404-546-3453	Fate of metals
George W. Bailey Chemistry Branch FTS 250-3307 404-546-3307	Fate of metals
David S. Brown Assessment Branch FTS 250-3310 404-546-3310	Metal speciation Transport and transformation of metals
Robert F. Carsel Assessment Branch FTS 250-3565 404-546-3565	Model applications Uncertainty analysis
Timothy W. Collette Measurements Branch FTS 250-3524 404-546-3524	Spectroscopic property-reactivity relationships
J. Jackson Ellington Measurements Branch FTS 250-3197 404-546-3197	Transformation pathway analysis
Fred F. Fong Assessment Branch FTS 250-3210 404-546-3210	Modeling multiphasic transport in porous media Numerical analysis
Chad T. Jafvert Chemistry Branch FTS 250-3349 404-546-3349	Pollutant sorption-desorption
Heinz P. Kollig Measurements Branch FTS 250-3770 404-546-3770	Rate constant data for pollutant-fate modeling
Nicholas T. Loux Chemistry Branch FTS 250-3174 404-546-3174	Metal speciation and sorption

John M. McGuire  
Measurements Branch  
FTS 250-3185  
404-546-3185

Multispectral identification of organic  
chemicals

Lee A. Mulkey  
Assessment Branch  
FTS 250-3476  
404-546-3476

Multimedia modeling and  
uncertainty analysis

John E. Rogers  
Biology Branch  
FTS 250-3592  
404-546-3592

Anaerobic biodegradation processes

Charles N. Smith  
Assessment Branch  
FTS 250-3302  
404-546-3302

Conduct of field studies  
Analysis of monitoring data

William C. Steen  
Measurements Branch  
FTS 250-3776  
404-546-3776

Aerobic microbial transformation rate  
measurement

Eric J. Weber  
Chemistry Branch  
FTS 250-3198  
404-546-3198

Pollutant transformations

N. Lee Wolfe  
Chemistry Branch  
FTS 250-3429  
404-546-3429

Pollutant transformations



**ENVIRONMENTAL CRITERIA AND ASSESSMENT OFFICE - CINCINNATI**

Randall J.F. Bruins  
Systemic Toxicants Assessment Branch  
FTS 684-7539  
513-569-7539

Ground-water risk assessment  
methodologies

## EXPOSURE ASSESSMENT GROUP

Seong T. Hwang  
Exposure Assessment Group  
FTS 475-8919  
202-475-8919

Fate and transport modeling  
Health risk assessment for ground-  
water contaminants  
Selection of models for exposure  
assessment  
Leachate generation models  
Cleanup models for ground-water  
contamination

John Schaum  
Exposure Assessment Group  
FTS 382-5988  
202-382-5988

Fate and transport modeling  
Health risk assessment for ground-  
water contaminants  
Selection of models for exposure  
assessment  
Analysis of monitoring data

Malcolm Field  
Exposure Assessment Group  
FTS 475-8921  
202-475-8921

Karst hydrology  
Remedial investigations  
Chemical fate and transport  
Ground-water flow in fractured rocks  
Aquifer pump-test analysis

## RISK REDUCTION ENGINEERING LABORATORY

Edward R. Bates Emerging Technology Section FTS 684-7774 513-569-7774	Geology/geophysics
Benjamin L. Blaney Hazardous Waste Treatment Branch FTS 684-7519 513-569-7519	Volatile organic emissions
Robert M. Clark Drinking Water Research Division FTS 684-7201 513-569-7201	Treatment technology cost estimation
Paul dePercin Demonstration Section FTS 684-7797 513-569-7797	Physical/chemical treatment
Kenneth A. Dostal Water and Hazardous Waste Treatment Research Division FTS 684-7503 513-569-7503	Biological treatment Treatability data base
Richard A. Dobbs Treatment Assessment Branch FTS 684-7649 513-569-7649	Toxics control in waste water
John Farlow Releases Control Branch FTS 340-6635 201-321-6635	Underground storage tanks (UST) hazardous releases technology
Walter A. Feige Drinking Water Research Division FTS 684-7496 513-569-7496	Organic treatment processes
Kim R. Fox Inorganics and Particulate Control Branch FTS 684-7820 513-569-7820	Radionuclide treatment processes
Carol Ann Fronk Organics Control Branch FTS 684-7592 513-569-7592	Organic treatment processes
John A. Glaser Chemical and Biological Detoxification Section FTS 684-7568 513-569-7568	Biological treatment

Walter G. Grube, Jr.  
Release  
FTS 684-7798  
513-569-7798

Slurry walls  
Soil and admixture liners  
Hydraulic conductivity

Michael Gruenfeld  
Exposure Reduction Technology Section  
FTS 340-6625  
201-321-6625

Chemical analysis  
Soil-water chemistry

Jonathan G. Herrmann  
Treatment Technology Section  
FTS 684-7839  
513-569-7839

Inorganics treatment

Robert Hillger  
Releases Technology Section  
FTS 340-6639  
201-321-6639

Underground storage tank (UST)  
Ground-water hydrology

Ronald F. Lewis  
Demonstration Section  
FTS 684-7856  
513-569-7856

Biodegradation technology  
Soil contamination

Benjamin W. Lykins, Jr.  
Systems and Cost Evaluation Branch  
FTS 684-7460  
513-569-7460

Organic treatment processes

John F. Martin  
Demonstration Section  
FTS 684-7758  
513-569-7758

Mining ground-water impacts

Richard Miltner  
Organics Control Branch  
FTS 684-7403  
513-569-7403

Organic treatment processes

James A. Ryan  
*In Situ* Technology Section  
FTS 684-7653  
513-569-7653

Pulse Pumping

Thomas J. Sorg  
Inorganics and Particulate Control Branch  
FTS 684-7370  
513-569-7370

Inorganic treatment processes

Anthony Tafuri  
Releases Technology Section  
FTS 340-6604  
201-321-6604

UST technology  
*In situ* treatment processes



#### **4. TECHNICAL ASSISTANCE CONTACTS BY SUBJECT**

<b>Subject</b>	<b>Name</b>	<b>Office</b>	<b>FTS</b>	<b>Commercial</b>
<b>Abiotic processes</b>	Durmont Bouchard	RSKERL	743-2321	405-332-8800
	Candida West	RSKERL	743-2257	405-332-8800
	Lynn Wood	RSKERL	743-2304	405-332-8800
<b>Aquifer restoration</b>				
Biodegradation	John Wilson	RSKERL	743-2259	405-332-8800
Anaerobic	John Rogers	ERL-Ath	250-3592	404-546-3592
<i>In situ</i>	Jerry Jones	RSKERL	743-2251	405-332-8800
	James McNabb	RSKERL	743-2216	405-332-8800
<b>Biological analyses</b>	Robert Smith	RSKERL	743-2352	405-332-8800
<b>Biodegradation</b>	Ron Lewis	RREL	684-7856	513-569-7856
	John Wilson	RSKERL	743-2259	405-332-8800
<b>Chemistry</b>				
Analytical				
	Michael Gruenfeld	RREL	340-6625	201-321-6625
Inorganic	Bert Bledsoe	RSKERL	743-2324	405-332-8800
	Don Clark	RSKERL	743-2311	405-332-8800
	Fred Pfeffer	RSKERL	743-2305	405-332-8800
Organic	Roger Cosby	RSKERL	743-2320	405-332-8800
	Garmon Smith	RSKERL	743-2316	405-332-8800
Multispectral	John McGuire	ERL-Ath	250-3185	404-546-3185
Spectroscopic	Timothy Collette	ERL-Ath	250-3524	404-546-3524
Geochemistry	Robert Puls	RSKERL	743-2262	405-332-8800
Soil	Don Kampbell	RSKERL	743-2332	405-332-8800
Soil water	Michael Gruenfeld	RREL	340-6625	201-321-6625
Rate constants	Heinz Kollig	ERL-Ath	250-3770	404-546-3770
	Jack Ellington	ERL-Ath	250-3197	404-546-3210
	Heinz Kollig	ERL-Ath	250-3770	404-546-3770
Water	Jerry Jones	RSKERL	743-2251	405-332-8800
<b>Contaminant source control</b>				
Underground Storage	John Farlow	RREL	340-6635	201-321-6635
Tanks (UST)	Robert Hillger	RREL	340-6639	201-321-6639
	Anthony Tafuri	RREL	340-6604	201-321-6604
	Jerry Jones	RSKERL	743-2251	405-332-8800
Slurry walls	Walter Grube	RREL	684-7798	513-569-7798
Wastewater land treatment	Lowell Leach	RSKERL	743-2333	405-332-8800
Volatile emissions	Benjamin Blaney	RREL	684-7519	513-569-7519
	Paul dePercin	RREL	684-7797	513-569-7797
<b>Fate/effects of contaminants</b>				
Anaerobic				
biodegradation	John Rogers	ERL-Ath	250-3592	404-546-3592
biotransformations	Wayne Downs	RSKERL	743-2320	405-332-8800
	Guy Sewell	RSKERL	743-2232	405-332-8800
Ecological	Douglas Kreis	RSKERL	743-2303	405-332-8800

<b>Subject</b>	<b>Name</b>	<b>Office</b>	<b>FTS</b>	<b>Commercial</b>
Exposure/risk assessments	Seong Hwang	EAG	475-8919	202-475-8919
	John Schaum	EAG	382-5988	202-382-5988
Field studies	Charles Smith	ERL-Ath	250-3302	404-546-3302
Metals	Bert Bledsoe	RSKERL	743-2324	405-332-8800
	Leo Azarraga	ERL-Ath	250-3453	404-546-3453
	George Bailey	ERL-Ath	250-3307	404-546-3307
	David Brown	ERL-Ath	250-3310	404-546-3310
Metals speciation	John Martin	RREL	684-7758	513-569-7758
Mining impacts	William Dunlap	RSKERL	743-2314	405-332-8800
Organics	Chad Jafvert	ERL-Ath	250-3349	404-546-3349
Sorption/desorption	Eric Weber	ERL-Ath	250-3198	404-546-3198
Transformations	N. Lee Wolfe	ERL-Ath	250-3429	404-546-3429
<b>Geophysics</b>	Edward Bates	RREL	684-7774	513-569-7774
	Regina Bochicchio	EMSL-LV	545-2150	702-798-2150
	Larry Jack	EMSL-LV	545-2367	702-798-2367
	Aldo Mazzella	EMSL-LV	545-2254	702-798-2254
<b>Ground-water hydraulics</b>				
Conductivity	Walter Grube Jr.	RREL	684-7798	513-569-7798
Fractured rock	Malcolm Field	EAG	475-8921	202-475-8921
	Stephen Schmelling	RSKERL	743-2315	405-332-8800
<b>Hydrogeology</b>	Edward Bates	RREL	684-7774	513-569-7774
	Doug Bedinger	EMSL-LV	798-2389	702-798-2389
	Dominic DiGiulio	RSKERL	743-2324	405-332-8800
	Joe DLugosz	EMSL-LV	545-2598	702-798-2598
	Don Draper	RSKERL	743-2202	405-332-8800
	Robert Hillger	RREL	340-6639	201-321-6639
	Randall Ross	RSKERL	743-2355	405-332-8800
	Jerry Thornhill	RSKERL	743-2310	405-332-8800
	Dennis Miller	RSKERL	743-2263	405-332-8800
	Malcolm Field	EAG	475-8921	202-475-8921
<b>Hydrolysis rate constants</b>	J.J. Ellington	ERL-Ath	250-3197	404-546-3197
	Heinz Kollig	ERL-Ath	250-3770	404-546-3770
<b>Injection wells (See also Wells)</b>				
Monitoring	Lowell Leach	RSKERL	743-2333	405-332-8800
	Jerry Thornhill	RSKERL	743-2310	405-332-8800
	Aldo Mazzella	EMSL-LV	545-2254	702-798-2254
	Ken Scarbrough	EMSL-LV	545-2645	702-798-2645
<b>Metals</b>				
Fate	Leo Azarraga	ERL-Ath	250-3453	404-546-3453
	George Bailey	ERL-Ath	250-3307	404-546-3307
Speciation	David Brown	ERL-Ath	250-3310	404-546-3310
	Nicholas Loux	ERL-Ath	250-3174	404-546-3174
Transport/transformation	Bert Bledsoe	RSKERL	743-2324	405-332-8800
	David Brown	ERL-Ath	250-3310	404-546-3310
	Robert Puls	RSKERL	743-2262	405-332-8800



<b>Subject</b>	<b>Name</b>	<b>Office</b>	<b>FTS</b>	<b>Commercial</b>
<b>Microbiology</b>	John Wilson	RSKERL	743-2259	405-332-8800
Aerobic	William Steen	ERL-Ath	250-3776	404-546-3198
Anaerobic	John Rogers	ERL-Ath	250-3592	404-546-3592
Biotransformation	Wayne Downs	RSKERL	743-2320	405-332-8800
	Steven Hutchins	RSKERL	743-2327	405-332-8800
	Guy Sewell	RSKERL	743-2232	405-332-8800
Treatment	John Glaser	RREL	684-7568	513-569-7568
	Ronald Lewis	RREL	684-7856	513-569-7856
Viruses	James McNabb	RSKERL	743-2216	405-332-8800
<b>Modeling</b>	Scott Huling	RSKERL	743-2313	405-332-8800
	Randall Ross	RSKERL	743-2355	405-332-8800
Applications	Robert Ambrose	ERL-Ath	250-3130	404-546-3130
	Robert Carsel	ERL-Ath	250-3565	404-546-3565
Contaminant fate	Seong Hwang	EAG	475-8919	202-475-8919
	John Schaum	EAG	475-8920	202-475-8920
transport	Jong Cho	RSKERL	743-2353	405-332-8800
	Dominic DiGiulio	RSKERL	743-2324	405-332-8800
	Wayne Downs	RSKERL	743-2320	405-332-8800
	Carl Enfield	RSKERL	743-2334	405-332-8800
	Seong Hwang	EAG	475-8919	202-475-8919
	John Schaum	EAG	475-8920	202-475-8920
	Thomas Short	RSKERL	743-2234	405-332-8800
porous media	Fred Fong	ERL-Ath	250-3210	404-546-3210
Courses, publications	Margaret Butorac	IGWMC		317-283-9458
Exposure assessment	Seong Hwang	EAG	475-8919	202-475-8919
	John Schaum	EAG	475-8920	202-475-8920
Leachate	Seong Hwang	EAG	475-8919	202-475-8919
Mathematical	Fred Fong	ERL-Ath	250-3210	404-546-3210
Multimedia	Lee Mulkey	ERL-Ath	250-3476	404-546-3476
Research	Paul van der Heijde	IGWMC		317-283-9458
Pollutant rate constants	Heinz Kollig	ERL-Ath	250-3770	404-546-3770
Soils	David Walters	RSKERL	743-2261	405-332-8800
	Paul van der Heijde	IGWMC		317-283-9458
<b>Monitoring</b>	Lowell Leach	RSKERL	743-2333	405-332-8800
Analysis of data	Seong Hwang	EAG	475-8919	202-475-8919
	Charles Smith	ERL-Ath	250-3302	404-546-3302
Aquifer tests	Doug Bedinger	EMSL-LV	798-2389	702-798-2389
	John Schaum	EAG	475-8920	202-475-8920
CERCLA site investigation	Aldo Mazzella	EMSL-LV	545-2254	702-798-2254
	Malcolm Field	EAG	475-8921	202-475-8921
Field studies	Charles Smith	ERL-Ath	250-3302	404-546-3302
Fractured bedrock	Malcolm Field	EAG	475-8921	202-475-8921
	Eric Koglin	EMSL-LV	545-2432	702-798-2432
Indicator parameters	Steve Gardner	EMSL-LV	545-2366	702-798-2366
Injection wells	Aldo Mazzella	EMSL-LV	545-2254	702-798-2254
	Ken Scarbrough	EMSL-LV	545-2645	702-798-2645
<i>In situ</i> methods	Larry Eccles	EMSL-LV	545-2385	702-798-2385
Geophysical methods	Aldo Mazzella	EMSL-LV	545-2254	702-798-2254
Method standards/QA	Steve Gardner	EMSL-LV	545-2366	702-798-2366
Sampling techniques	Jane Denne	EMSL-LV	545-2655	702-798-2655

<b>Subject</b>	<b>Name</b>	<b>Office</b>	<b>FTS</b>	<b>Commercial</b>
	Marion (Dick) Scalf	RSKERL	743-2308	405-332-8800
	Soil Gas	Larry Eccles	EMSL-LV	545-2385
	Strategies	Steve Gardner	EMSL-LV	545-2366
	UST external leak			
	detection	Phil Durgin	EMSL-LV	545-2623
	Vadose zone	Larry Eccles	EMSL-LV	545-2385
	Well construction	Jane Denne	EMSL-LV	545-2655
	Well placement	Eric Koglin	EMSL-LV	545-2432
<b>Remedial action</b>				
Biodegradation	John Wilson	RSKERL	743-2259	405-332-8800
	Ronald Lewis	RREL	684-7856	513-569-7856
Investigations	Malcolm Field	EAG	475-8921	202-475-8921
	Aldo Mazzella	EMSL-LV	545-2254	702-798-2254
	Charles Smith	ERL-Ath	250-3302	404-546-3302
Land treatment of hazardous wastes	John Matthews	RSKERL	743-2233	405-332-8800
	Soil contamination	Ronald Lewis	RREL	684-7856
	Treatment	John Brugger	RREL	340-6634
		John Wilson	RSKERL	743-2259
<b>Resources/economics</b>				
	Robert Clark	RREL	684-7201	513-569-7201
<b>Risk assessment</b>				
Health	Randall Bruins	ECAO-CIN	684-7539	513-569-7539
	Seong Hwang	EAG	475-8919	202-475-8919
	John Schaum	EAG	475-8920	202-475-8920
<b>Sampling</b>				
	Jane Denne	EMSL-LV	545-2655	702-798-2655
	Lowell Leach	RSKERL	743-2333	405-332-8800
<b>Soil</b>				
	Frank Beck	RSKERL	743-2293	405-332-8800
	Susan Mravik	RSKERL	743-2434	405-332-8800
	David Walters	RSKERL	743-2261	405-332-8800
Admixtures/slurries/liners	Walter Grube	RREL	684-7798	513-569-7798
	Chemistry	Michael Gruenfeld	RREL	340-6625
	Contamination	Ronald Lewis	RREL	684-7856
	Soil Gas	Larry Eccles	EMSL-LV	545-2385
<b>Toxicity testing</b>				
	John Mathews	RSKERL	743-2233	405-332-8800
<b>Transport of contaminants</b>				
Immiscible flow	Dennis Miller	RSKERL	743-2263	405-332-8800
	Metals	Bert Bledsoe	RSKERL	743-2324
		David Brown	ERL-Ath	250-3310
		Robert Puls	RSKERL	743-2262
Modeling	Jong Cho	RSKERL	743-2353	405-332-8800
	Carl Enfield	RSKERL	743-2334	405-332-8800
	Stephen Schmelling	RSKERL	743-2315	405-332-8800

<b>Subject</b>	<b>Name</b>	<b>Office</b>	<b>FTS</b>	<b>Commercial</b>
	Thomas Short	RSKERL	743-2234	405-332-8800
	James Weaver	RSKERL	743-2420	405-332-8800
porous media	Fred Fong	ERL-Ath	250-3210	404-546-3210
Multiphase	Jong Cho	RSKERL	743-2353	405-332-8800
	James Weaver	RSKERL	743-2420	405-332-8800
Organics	William Dunlap	RSKERL	743-2314	405-332-8800
Vapor phase	Dennis Miller	RSKERL	743-2263	405-332-8800
Viruses	James McNabb	RSKERL	743-2216	405-332-8800
<b>Treatment (see also Remediation)</b>				
Biological	Kenneth Dostal	RREL	684-7503	513-569-7503
	John Glaser	RREL	684-7568	513-569-7568
	Ronald Lewis	RREL	684-7856	513-569-7856
<i>In situ</i> biodegradation	John Wilson	RSKERL	743-2259	405-332-8800
Treatability data base	Kenneth Dostal	RREL	684-7503	513-569-7503
Hazardous wastes	John Martin	RREL	684-7758	513-569-7758
Inorganic processes	Thomas Sorg	RREL	684-7370	513-569-7370
Land (RCRA)	Scott Huling	RSKERL	743-2313	405-332-8800
	John Matthews	RSKERL	743-2233	405-332-8800
Organic processes	Walter Feige	RREL	684-7496	513-569-7496
	Carol Ann Fronk	RREL	684-7592	513-569-7592
	Richard Miltner	RREL	684-7403	513-569-7403
	Benjamin Lykins	RREL	684-7460	513-684-7460
Physical/chemical	Paul DePercin	RREL	684-7797	513-569-7797
	John Brugger	RREL	340-6634	201-321-6634
Radionuclides	Kim Fox	RREL	684-7820	513-569-7820
Technology costs	Robert Clark	RREL	684-7201	513-569-7201
Toxics control	Richard Dobbs	RREL	684-7649	513-569-7649
<b>Uncertainty analysis</b>				
	Robert Carsel	ERL-Ath	250-3565	404-546-3565
	Lee Mulkey	ERL-Ath	250-3476	404-546-3476
<b>Underground Injection Control</b>				
	Don Draper	RSKERL	743-2202	405-332-8800
	Jerry Thornhill	RSKERL	743-2310	405-332-8800
Monitoring	Lowell Leach	RSKERL	743-2333	405-332-8800
<b>Underground Storage Tanks (UST)</b>				
Tank leakage	John Farlow	RREL	340-6631	201-321-6631
	Richard Field	RREL	340-6674	210-321-6674
	Robert Hillger	RREL	340-6639	201-321-6639
	Anthony Tafuri	RREL	340-6604	201-321-6604
	Jerry Jones	RSKERL	743-2251	405-332-8800
External leak				
detection monitoring	Phil Durgin	EMSL-LV	545-2623	702-798-2623
<b>Wells (See also Injection Wells)</b>				
Aquifer tests	Doug Bedinger	EMSL-LV	545-2389	702-798-2389
	Malcolm Field	EAG	475-8921	202-475-8921
Construction	Jane Denne	EMSL-LV	545-2655	702-798-2655
Placement	Eric Koglin	EMSL-LV	545-2432	702-798-2254
Technology	William Englemann	EMSL-LV	545-2656	702-798-2656

	James Ryan	RREL	684-7653	513-569-7653
<b>Wellhead Protection</b>	Marion (Dick) Scalf	RSKERL	743-2308	405-332-8800
	Steve Gardner	EMSL-LV	545-2366	702-798-2366
	James McNabb	RSKERL	743-2216	405-332-8800
	Randall Ross	RSKERL	743-2355	405-332-8800



## **5. PROGRAM OFFICE AND REGIONAL OFFICE CONTACTS**

**OFFICE OF WATER**

*OFFICE OF DRINKING WATER*

David Morganwalp  
Hazardous Waste Injection Section  
FTS 382-5544  
202-382-5544

Underground Injection Control (UIC)

*OFFICE OF GROUND-WATER PROTECTION*

Ronald Hoffer  
Technical Regulations Analysis Staff  
FTS 382-7077  
202-382-7077

Wellhead Protection

**OFFICE OF SOLID WASTE AND EMERGENCY RESPONSE**

*OFFICE OF SOLID WASTE*

Reid Rosnick  
Permits and State Programs Division  
FTS 382-4755  
202-382-4755

RCRA Monitoring Requirements

Janette Hansen  
Waste Management Division  
FTS 475-6690  
202-475-6690

RCRA Subtitle D

Joe Abe  
Waste Management Division  
FTS 475-7371  
202-475-7371

RCRA Regulations  
Assessment/Remediation Technologies  
Research/Technical Analysis

Vernon Meyers  
Waste Management Division  
FTS 475-7240  
202-475-7240

RCRA Regulations/Technical  
Guidance Documents  
Monitoring

Zubair Saleem  
Characterization and Assessment Division  
FTS 382-4809  
202-382-4809

Ground-Water Modeling  
Alternative Contaminant Levels

*OFFICE OF EMERGENCY AND REMEDIAL RESPONSE*

Jennifer Haley  
Hazardous Site Control Division  
FTS 382-6705  
202-382-6705

Superfund Remedial Policy

Randy Kaltreider  
Hazardous Site Control Division  
FTS 382-4491  
202-382-4491

Superfund Remedial Analysis

David Bennett  
Hazardous Site Evaluation Division  
Toxics Integrations Branch  
FTS 475-9486  
202-475-9486

Risk Assessment

Joseph Laformara  
Emergency Response Division  
FTS 340-6740  
201-321-6740

Emergency Response  
Geophysics

*OFFICE OF PROGRAM MANAGEMENT AND TECHNOLOGY*

Richard Steimle  
Technology Staff  
FTS 382-7914  
202-382-7914

Ground-Water Workstations  
RCRA Tech Support Forum

Ron G. Wilhelm  
Technology Staff  
FTS 382-4625  
202-382-4625

Subsurface Chemistry  
Superfund Tech Support Forum

*OFFICE OF UNDERGROUND STORAGE TANKS*

Iris Goodman  
Policy & Standards Division  
FTS 382-4758  
202-382-4758

Underground Storage Tanks

*OFFICE OF WASTE PROGRAMS ENFORCEMENT*

Kenneth Jennings  
Technical Information Section  
FTS 382-4849  
202-382-4849

RCRA Enforcement  
Technical Enforcement Guidance  
implementation

Tracy LaCosta  
Technical Information Section  
FTS 382-3122  
202-382-3122

Ground-Water Task Force

Paul Schumann  
Technical Information Section  
FTS 382-4832  
202-382-4832

RCRA Enforcement  
ORD G-W Matrix Mgmt Liaison



Peter Siebach  
Guidance and Evaluation Branch  
FTS 475-9849  
202-475-9849

RCRA Enforcement  
*Technical Enforcement Guidance  
Document*

William Stelz  
Technical Information Section  
FTS 382-4829  
202-382-4829

RCRA Enforcement  
Wellhead Protection  
Ground-water protection strategy

Candace Wingfield  
CERCLA Enforcement Division  
FTS 475-9317  
202-475-9317

CERCLA Enforcement

## OFFICE OF PESTICIDES AND TOXIC SUBSTANCES

### *OFFICE OF PESTICIDE PROGRAMS*

Robert Holst  
Environmental Fate & Effects Division  
FTS 557-5734  
202-557-5734

ORD G-W Matrix Mgmt Liaison  
Exposure Assessment

Patrick Holden  
Environmental Fate & Effects Division  
FTS 557-5734  
202-557-5734

Pesticides Ground-Water Team  
Leader

### *OFFICE OF TOXIC SUBSTANCES*

Annett Nold  
Exposure Evaluation Division  
FTS 382-3930  
202-382-3930

TSCA Ground-Water Modeling

Loren Hall  
Existing Chemicals Assessment Division  
FTS 382-3931  
202-382-3931

TSCA Data Bases

## REGION I

Environmental Protection Agency  
John F. Kennedy Federal Building  
Room 2203  
Boston, MA 02203

Connecticut ♦ Maine ♦ Massachusetts ♦ New Hampshire ♦ Rhode Island ♦ Vermont

George Furst  
Waste Management Division  
Massachusetts Waste Management Branch  
FTS 223-1926  
617-223-1926

RCRA

John Zannos  
Waste Management Division  
Superfund Branch  
FTS 833-9629  
617-573-9629

CERCLA

Robert Mendoza  
Water Management Division  
Office of Ground Water Protection  
FTS 835-3600  
617-565-3600

Ground-Water Protection

Ray Tompson  
Environmental Services Division  
Surveillance Branch  
FTS 861-6700  
617-861-6700

Field Services

**REGION II**  
Environmental Protection Agency  
26 Federal Plaza  
New York, NY 10278

New Jersey ♦ New York ♦ Puerto Rico ♦ Virgin Islands

Phil Clappin  
Air and Waste Management Division  
Hazardous Waste Compliance Branch  
FTS 264-6143  
212-264-6143

RCRA

Kevin Willis  
Emergency and Remedial Response Division  
New Jersey Remedial Action Branch  
FTS 264-1784  
212-264-1784

CERCLA

John Malleck  
Water Management Division  
Office of Ground-Water Management  
FTS 264-5635  
212-264-5635

Ground-Water Protection

Louis DiGuardia  
Emergency & Remedial Response Division  
Surveillance and Monitoring Branch  
FTS 340-6927  
201-906-6927

Field Services

**REGION III**  
Environmental Protection Agency  
841 Chestnut Street  
Philadelphia, PA 19107

Delaware ♦ Maryland ♦ Pennsylvania ♦ Virginia ♦ West Virginia

Michael Freiheiter Hazardous Waste Management Division Waste Management Branch FTS 597-8540 215-597-8540	RCRA
Kathy Davies Hazardous Waste Management Division Superfund Branch FTS 597-6488 215-597-6488	CERCLA
Steuart Kerzner Water Management Division Water Supply Branch FTS 597-2786 215-597-2786	Ground-Water Protection
Gary Bryant Environmental Services Division Wheeling Field Office 304-233-1271	Field Services

**REGION IV**  
Environmental Protection Agency  
345 Courtland Street, NE  
Atlanta, GA 30365

Alabama ♦ Florida ♦ Georgia ♦ Kentucky ♦ Mississippi ♦ North Carolina ♦ South Carolina

Michael Arnette Waste Management Division Residuals Management Branch FTS 257-3433 404-347-3433	RCRA
Chuck Eger Waste Management Division Emergency and Remedial Response Branch FTS 257-3931 404-347-3931	CERCLA
Bernie Hayes Water Management Division FTS 257-3866 404-347-3866	Ground-Water Protection

Donald Hunter  
Environmental Services Division  
Environmental Compliance Branch  
FTS 250-3353  
404-546-3353

Field Services

**REGION V**  
Environmental Protection Agency  
230 South Dearborn Street  
Chicago, IL 60604

Illinois ♦ Indiana ♦ Michigan ♦ Minnesota ♦ Ohio ♦ Wisconsin

Carol Witt  
Waste Management Division  
RCRA Permitting Branch  
FTS 886-6146  
312-886-6146

RCRA

Doug Yeskis  
Waste Management Division  
Superfund Program Management Branch  
FTS 886-0408  
312-886-0408

CERCLA

Jerri-Anne Garl  
Water Division  
Office of Ground Water  
FTS 886-1490  
312-886-1490

Ground-Water Protection

John McGuire  
Environmental Sciences Division  
Central District Office  
FTS 353-2704  
312-353-2704

Field Services

**REGION VI**  
Environmental Protection Agency  
1445 Ross Avenue  
Dallas, TX 75202

Arkansas ♦ Louisiana ♦ New Mexico ♦ Oklahoma ♦ Texas

Steve Slaten  
Hazardous Waste Division  
RCRA Permits Branch  
FTS 255-6785  
214-655-6785

RCRA

Ruth Izraeli  
Hazardous Waste Management Division  
Superfund State Programs Branch  
FTS 255-6735  
214-655-6735

CERCLA

Erlece Allen  
Water Management Division  
FTS 255-6446  
214-655-6446

Ground-Water Protection

Walt Helmick  
Environmental Services Division  
Surveillance Branch  
FTS 255-6491  
214-655-6491

Field Services

**REGION VII**  
Environmental Protection Agency  
726 Minnesota Avenue  
Kansas City, KS 66101

Iowa ♦ Kansas ♦ Missouri ♦ Nebraska

Richard Young  
Waste Management Division  
RCRA Branch  
FTS 757-2891  
913-236-2891

RCRA

Steve Kinser  
Waste Management Division  
Superfund Branch  
FTS 757-2856  
913-236-2856

CERCLA

Tim Amsden, Director  
Water Management Division  
Office of Groundwater Protection  
FTS 757-2970  
913-236-2970

Ground Water Protection

Robert Dona  
Environmental Services Division  
Environmental Monitoring and Compliance Branch  
FTS 757-3884  
913-236-3884

Field Services

**REGION VIII**  
Environmental Protection Agency  
One Denver Place  
999 18th Street  
Suite 1300  
Denver, CO 80202

Colorado ♦ Montana ♦ North Dakota ♦ South Dakota ♦ Utah ♦ Wyoming

David Hogleky  
Hazardous Waste Management Division  
RCRA Implementation Branch  
FTS 564-1705  
303-293-1705

RCRA

John Haggard  
Waste Management Division  
Superfund Remedial Branch  
FTS 564-1533  
303-293-1533

CERCLA

Richard R. Long  
Water Management Division  
Ground-Water Branch  
FTS 564-1542  
303-293-1542

Ground-Water Protection

Marshall Payne  
Environmental Services Division  
Surveillance Branch  
FTS 776-5064  
303-236-5064

Field Services

**REGION IX**  
Environmental Protection Agency  
215 Freemont Street  
San Francisco, CA 94105

Arizona ♦ California ♦ Guam ♦ Hawaii ♦ Nevada

Herb Levine  
Hazardous Waste Management Division  
Waste Compliance Branch  
FTS 454-8127  
415-974-8127

RCRA

Jeff Rosenbloom  
Hazardous Waste Management Division  
Superfund Enforcement Branch  
FTS 454-9565  
415-974-9565

CERCLA

Patricia Eklund  
Water Management Division  
Office of Ground-Water Protection  
FTS 454-0831  
415-974-0831

Ground-Water Protection

Peter Rubenstein  
Hazardous Waste Management Division  
Field Operations Branch  
FTS 454-0307  
415-974-0307

Field Services

**REGION X**  
Environmental Protection Agency  
1200 Sixth Avenue  
Seattle, WA 98101

Alaska ♦ Idaho ♦ Oregon ♦ Washington

Carrie Sikorski  
Hazardous Waste Division  
Waste Management Branch  
FTS 399-2851  
206-442-2851

RCRA  
CERCLA

Martha Sabol  
Water Division  
Office of Ground-Water Protection  
FTS 399-1593  
206-442-1593

Ground-Water Protection

René Fuentes  
Environmental Services Division  
Field Operations & Technical Support Branch  
FTS 399-1599  
206-442-1599

Field Services

## 6. ADDITIONAL SOURCES OF INFORMATION

*OSWER Electronic Bulletin Board:* Generally related to hazardous and solid waste matters, includes on-line calendars of tech transfer/training opportunities, new ORD publications (and ordering), exchange of messages. Contact OSWER's Office of Program Management and Technology (FTS/202-382-4506) for further information or call BBS directly at 202-589-8366 (off-net FTS; set your communications software to 1200 or 2400 baud, 8 data bits, no parity, one stop bit).

*ORD Topical Directory:* ORD contacts by subject. Available on-line through OSWER Electronic Bulletin Board and in compiled DOS format for keyword search on your own DOS-based computer. Contact ORD/CERI at FTS 684-7391 or (513) 569-7391 or OSWER bulletin board, above.

*ORD Locator:* Telephone directory for ORD headquarters and laboratories. Latest version (October, 1988) is available from CERI as document CERI-88-2.

*EPA Research Program Guide:* Annual booklet with brief descriptions, budgets, and contacts for all ORD laboratory research projects. Organized by medium. The latest version (FY 1989) Available from CERI as document EPA/600/9-88/017.

*Superfund Ground-Water Forum:* Regional contacts for OSWER's Superfund Technology Support Project. Contact Technology Staff at FTS/202 382-4506 for further information and descriptive flyer, or your Regional Superfund Branch Chief for name of Regional Forum member.

*RCRA Ground-Water Forum:* As above, for RCRA support.

*Commercial Databases:* A wide variety of commercial (subscription) databases are available for on-line perusal and keyword search. Because each is different, and because some familiarity is very useful, the best source for assistance is your librarian. All EPA Regional and laboratory libraries, as well as the Headquarters library, maintain subscriptions to comprehensive technical databases such as *Dialog*, *ToxLine*, *Chemical Information System*, *Ground Water On-Line*, *BRS Search Service*, and *Environmental Technical Information System*.

A compendium of EPA and external databases is available for downloading (SOURCES.ARC) to your computer from the OSWER Electronic Bulletin Board.



## TECHNOLOGY TRANSFER OFFICES

Office of Research and Development	Jack Stanton, Director Technology Transfer Staff Office of Technology Transfer and Regulatory Support RD-672 (FTS/202) 382-7671
Office of Solid Waste and Emergency Response	Tom Pheiffer Technology Staff Office of Program Management and Technology OS-110 (FTS/202) 382-4477
Office of Water	Norbert Dee Office of Ground-Water Protection WH-550G (FTS/202) 382-7077
Office of Cooperative Environmental Management	William Garetz A-106-F6 (FTS/202) 475-9743

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