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QUARTERLY ABSTRACT BULLETIN

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SAMPLE ENTRY

NTIS Order Number/Media Code Price Codes	PB94-100443/REB PC A10/MF A03
Report Title	Engineering and Environmental Aspects of Recycled Materials for Highway Construction
Corporate Author	University of Wyoming Research Corp., Laramie
Personal Authors	D. Bloomquist, G. Diamond, M. Oden, B. Ruth, and M. Tia.
Date	Jul 93
Pages	222p
Report Number	EPA/530/R-93/013A
Contract Number	DTFH61-93-C-00060
Abstract	The report represents an assessment of environmental aspects and engineering factors related to the utilization of recycled materials in highway construction. A basic overview and assessment of different technologies, processes, and methods of recycling various material into highway appurtenances and for highway construction are presented with consideration of environmental and health risks.
Keywords (Descriptors & Identifiers)	*Recycled materials, *Road materials, *Environmental impact assessments, Waste recycling, Materials recovery, Highway construction, Environmental issues, Emission factors, Risk assessment, Asphalts, Plastics, Glass, Rubber, Public health, Engineering assessment.

EPA PUBLICATIONS BIBLIOGRAPHY

Quarterly Abstract Bulletin

PB2000-100629REB PC A08/MF A02
Environmental Protection Agency, Annapolis, MD.
Chesapeake Bay Program.

User's Guide to Chesapeake Bay Program Biological and Living Resources Monitoring Data, 2000.
Interstate Commission on the Potomac River Basin, Rockville, MD.

Jan 2000, 140p, CBP/TRS-235/00, EPA/930/R-00/002.

Grants EPA-CB-993038-05-0, EPA-CB-983067-01-1
See also PB98-118441. Sponsored by Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.

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This document describes how to access biological monitoring data from the Chesapeake Bay Program's Chesapeake Information Management System (CIMS). It provides information on: Currently available Chesapeake Bay Program (CBP) biological and living resources monitoring and geographic information system (GIS) databases; Procedures for obtaining biological and living resources monitoring data online from the CBP-CIMS Internet web page, online from CIMS partner web pages, or directly from the biological monitoring data manager and/or living resources GIS specialists; CIMS standards for publishing data to the public, including field names, attributes, and CIMS data dictionary tables; Guidance for organizations submitting Biological and Living Resource data directly to the CBPO data center; and Guidance for data usage and calculation of benthic ecosystem indicator metrics.

Keywords: *User guides, *Chesapeake Bay, *Natural resources management, *Monitoring, Databases, Geographic information systems, Data management, Internet, Information dissemination, Aquatic ecosystems, Submerged plants, Aquatic vegetation, Aerial surveys, Maryland, Virginia, Fish, Sport fishing, Crabs, Birds, Animals, Benthos, Phytoplankton, Zooplankton, Biological communities, Tables(Data), *Biological resources, *Living resources, Chesapeake Bay Program.

PB2000-101018REB PC A05/MF A01

Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab.

Quantification of Methane Emissions and Discussion of Nitrous Oxide and Ammonia Emissions from Septic Tanks, Latrines, and Stagnant Open Sewers in the World.

ARCADIS Geraghty and Miller, Durham, NC.
M. R. J. Doorn, and D. S. Liles. Oct 1999, 60p, EPA/600/R-99/089.

Contracts EPA-68-D4-0005, EPA-68-C-99-201

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This study is a first attempt to estimate global and country-specific methane (CH₄) emissions from open sewers and on-site wastewater treatment systems, including latrines and septic sewage tanks. This study uses an emission factor that expresses CH₄ emissions in terms of removed Chemical Oxygen Demand (COD(removed)). An appendix to this report includes a discussion of nitrogen cycle effects in these systems to qualify ammonia (NH₃) and nitrous oxide (N₂O) emissions from these systems. It was concluded that these

systems are not likely to contribute and significant quantity of NH₃ and N₂O to the atmosphere.

Keywords: *Methane, *Emissions, *Air pollution monitors, Nitrous oxides, Ammonia, Air pollution sources, Septic tanks, Sewers, Toilet facilities, Greenhouse gases, Quantitative analysis, Air pollution sampling, Nitrogen cycle, Sanitary engineering, Latrines.

PB2000-101329REB PC E99/MF E99

Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities; Peer Review Draft (Kit).

Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.

Nov 1999, 1392p-in 3v.

Kit includes PB2000-101330, PB2000-101331 and PB2000-101332.

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No abstract available.

PB2000-101330REB PC A17/MF A03

Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities; Peer Review Draft, Volume 1.

Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.

Nov 1999, 372p, EPA/530/D-99/001A.

See also PB2000-101331 (Volume 2) and PB2000-101332 (Volume 3).

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The report provides guidance to US EPA regions and state government on how to best implement Resource Conservation and Recovery Act (RCRA) and other US EPA regulations to facilitate permitting decisions for hazardous waste combustion facilities. It addresses facility characterization, including compiling basic facility data, identifying emission sources and compounds of concern (COPC), estimating COPC concentrations for non-detects, and concentrations detected in blanks. It discusses air dispersion and deposition modeling, problem formulation, analysis (exposure assessment and assessment of toxicity), and risk characterization. It includes references, tables and figures.

Keywords: *Hazardous wastes, *Incinerators, *Ecosystems, *Risk assessment, *Air pollution effects, Screening, Air pollution dispersion, Air pollution sampling, Combustion products, Stack gases, Environmental transport, Environmental exposure, Ecological concentration, Food webs, Toxicity, Combustors, Incineration, Waste processing plants, Emission rates, Fugitive emissions, RCRA(Resource Conservation and Recovery Act).

PB2000-101331REB PC A15/MF A03

Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities; Peer Review Draft, Volume 2. Appendix A.

Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.

Nov 1999, 320p, EPA/530/D-99/001B.

See also PB2000-101330 (Volume 1) and PB2000-101332 (Volume 3).

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Contents:

Appendix A - Chemical-Specific Data:
Chemicals for Consideration as Compounds of Potential Concern;
and Compound Specific Parameter Values.

Keywords: *Hazardous wastes, *Incinerators, *Ecosystems, *Risk assessment, *Air pollution effects, Screening, Air pollution dispersion, Air pollution sampling, Combustion products, Stack gases, Environmental transport, Environmental exposure, Ecological concentration, Food webs, Toxicity, Combustors, Incineration, Waste processing plants, Tables(Data), Emission rates, Fugitive emissions, RCRA(Resource Conservation and Recovery Act).

PB2000-101332REB PC A99/MF A06

Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities. Peer Review Draft, Volume 3. Appendices B-H.

Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.

Nov 1999, 700p, EPA/530/D-99/001C.

See also PB2000-101330 (Volume 1) and PB2000-101331 (Volume 2).

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Contents:

Estimating Media Concentration Equations and Variable Values;
Media-to-Receptor Bioconcentration Factors (BCFs);
Bioconcentration Factors (BCFs) for Wildlife Measurement Receptors;
Toxicity Reference Values;
Equations for Computing COPC Concentrations and COPC Dose Ingested Terms;
State Natural Heritage Programs;
and Toxicological Profiles.

Keywords: *Hazardous wastes, *Incinerators, *Ecosystems, *Risk assessment, *Air pollution effects, Screening, Air pollution dispersion, Air pollution sampling, Combustion products, Stack gases, Environmental transport, Environmental exposure, Ecological concentration, Food webs, Toxicity, Combustors, Incineration, Waste processing plants, Tables(Data), Emission rates, Fugitive emissions, RCRA(Resource Conservation and Recovery Act).

PB2000-101964REB PC A08/MF A02

Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.

Streamlined Environmental Lifecycle Assessment: An Approach for Evaluating the Environmental Performance of Building Materials. Final rept. 1992-97.

Scientific Consulting Group, Inc., Gaithersburg, MD.

J. A. Todd. Jan 2000, 146p, EPA/600/R-00/002.

Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. and American Inst. of Architects, Washington, DC.

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The report presents the approach that was developed to prepare reports on building materials for the Environmental Resource Guide (ERG), both technical materials reports and applications reports. It also: (1) presents data collection tools that could be used to replicate materials research conducted for the ERG project or to gather and analyze information on additional materials; (2) presents an overview of life-cycle assessment (LCA) concepts; (3) establishes a framework for the approach; (4) discusses the adaptation of LCA concepts for building materials studies; (5) presents the research approach developed for the ERG, including the overall approach to the inventory, impact, and interpretation or improvement stages; (6) describes some of the lessons learned from applying the approach in conducting research for the ERG; and (7) presents worksheets and procedures for replicating the ERG approach.

Keywords: *Building materials, *Environmental performance, *Life cycles, Construction materials, Assessments, Surveys, Stationary sources, Pollution control, Data collection, Environmental Resource Guide.

PB2000-102011REB PC A15/MF A03
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. **Emission Measurements of Particle Mass and Size Emission Profiles from Construction Activities.** Final rept. Mar 98-Jun 99. Midwest Research Inst., Kansas City, MO. G. E. Muleski, and C. Cowherd. Oct 1999, 324p, EPA/600/R-99/091. Contract EPA-68-D-98-2299. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The report gives results from field tests that characterize the amount and size distribution of particulate matter (PM) emissions from operations at construction sites. Of particular interest is the movement of earth by scraper loading and unloading, grading, transit vehicular movement on unpaved roads, and truck loading and unloading. Major results from the field tests are: (1) emissions of PM with aerodynamic diameter less than 10 micrometers (PM-10) from the loading/unloading of scrapers vary from about 1 to 1000 lb/1000 cu yd, depending on the soil properties and type of scraper used; (2) PM-10 emissions due to scraper travel between the cut and fill areas can be expected to exceed those due to removal and replacement of earth, if the transit distance is greater than 150 ft; (3) scraper loading/unloading emissions exhibit PM-2.5/PM-10 ratios of about 0.6, approximately twice the average ratio of 0.25 for scrapers and transit.

Keywords: *Particles, *Emissions factors, *Scrapers, *Air pollution monitoring, Trucks, Earthwork, Particle density, Highway construction, Earthmoving equipment, Particulates, Construction, Unpaved roads.

PB2000-102014REB PC A04/MF A01
Reregistration Eligibility Decision (RED): Sulfotepp. Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances. Sep 1999, 34p, EPA/738/R-99/012. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

This document and the process used to develop it are the results of a pilot process to facilitate greater public involvement and participation in the U.S. Environmental Protection Agency (EPA or the Agency) reregistration decisions on organophosphate pesticides. As part of the Agency's effort to involve the public in the implementation of the Food Quality Protection Act of 1996 (FQPA), the Agency is undertaking a special effort to maintain open public dockets on the

organophosphate pesticides and to engage the public in the reregistration and tolerance reassessment processes for these chemicals. The idea of using such an open process was discussed by the Tolerance Reassessment Advisory Committee (TRAC), a large multi-stakeholder advisory body which is advising the Agency on implementing the new provisions of the FQPA. The organophosphate pesticides are the pilot project for this initiative.

Keywords: *Pesticides, *Insecticides, Standards, Guidelines, Hazardous materials, Agricultural products, Regulations, *Reregistration, *Sulfotepp, Tolerance reassessments, CAS No. 3689-24-5.

PB2000-102015REB PC A03/MF A01
Effects of Composted Organic Materials on the Growth Factors for Hardwood and Softwood Tree Seedlings. Environmental Protection Agency, Washington, DC. Office of Solid Waste. 1999, 20p. Color illustrations reproduced in black and white. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

This project was a demonstration of the effects of compost on the growth of hardwood and softwood tree seedlings. There is interest in identifying cost-effective means to improve the revegetation of severely disturbed sites. The standard method of revegetating these types of sites generally involves seeding and/or planting, fertilizing, and mulching. For erosion control and revegetation, grass seed, pine seedlings, chemical fertilizers, straw and machine-blown pulp mulches are commonly used. This study tested the hypothesis that the use of composted products from organic materials has practical uses in forestry related applications and has the potential to improve the growth of tree seedlings in severely degraded soils. During December 1994, a group of tests were initiated on three damaged (e.g. compacted or severely eroded) sites to compare a standard straw mulch to three different composts used as mulches.

Keywords: *Compost, *Trees, Fertilizers, Organic materials, Seedlings, Cost effectiveness, Softwoods, Revegetation, Hardwoods.

PB2000-102016REB PC A04/MF A01
Cutting the Waste Stream in Half: Community Record-Setters Show How. Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response. Oct 1999, 44p, EPA/530/F-99/017. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The Waste Reduction Record-Setters Project fosters development of exceptional waste reduction programs by documenting successful ones. These programs can be used as models for others implementing their own programs to reduce waste. This fact sheet packet highlights record-setting waste reduction programs in 18 communities and summarizes information presented in the EPA report EPA-530-R-99-013, *Cutting the Waste Stream in Half: Community Record-Setters Show How*.

Keywords: *Hazardous materials, *Waste management, Waste disposal, Pollution control, Waste treatment, *Waste streams.

PB2000-102017REB PC A03/MF A01
Complex Recycling Issues: Strategies for Record Setting Waste Reduction in Multi-Family Dwellings. Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response. Oct 1999, 24p, EPA/530/F-99/022. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The Waste Reduction Record-Setters Project fosters the development of exceptional waste reduction programs by documenting successful ones. These programs can be used as models for others implementing their own programs to reduce waste. This fact sheet packet is oriented toward recycling coordinators, building managers and owners, and highlights record-setting multi-family dwelling (MFD) waste reduction programs.

Keywords: *Multifamily dwellings, *Waste recycling, Recycling, Waste disposal, Waste management, State planning, Local planning, Benefits, Project planning, Waste reduction.

PB2000-102018REB PC A06/MF A01
National Source Reduction Characterization Report for Municipal Solid Waste in the United States. Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response. Nov 1999, 82p, EPA/530/R-99/034. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

Partial Contents:
Introduction (How was Source Reduction Calculated);
Methodology (Overview of the Measurement Approach, Selecting the Factor Driving Waste Generation);
Results (Analysis of Products and Materials Contributing Significantly to Source Reduction);
Case studies (Reducing organic waste, Reducing wood and transport packaging, Reducing primary packaging, Working with suppliers, Working with customers);
Glossary;
Appendix;
Additional source reduction resources.

Keywords: *Municipal wastes, *Solid wastes, United States, Waste recycling, Disposal, Organic waste, Wood packaging, Primary packaging, Customers, Suppliers, Transport packaging.

PB2000-102019REB PC A04/MF A01
Painting the Town Green: Aberdeen Proving Ground's Paint Pilot Project. Environmentally Preferable Purchasing Program. Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics. Nov 1999, 34p, EPA/742/R-99/005. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

As a result of a recent series of Executive Orders, Department of Defense (DoD) policies, and an obligation to do the right thing, the U.S. Army's Aberdeen Proving Ground (APG), an installation in Harford County, Maryland, has adopted a variety of pollution prevention strategies. Its numerous projects to minimize the installation's adverse environmental impacts include purchasing alternatively fueled vehicles, reducing solvent use, minimizing packaging requirements, using rechargeable batteries, reducing aerosol use, adopting integrated pest management methods, implementing a green building policy, installing energy efficient lights and equipment, and training its work force in proper hazardous materials handling and pollution prevention techniques.

Keywords: *Pollution prevention, *Waste management, Training, Military installations, Hazardous materials, Environmental impacts, Strategies, Aberdeen Proving Grounds.

PB2000-102020REB PC A05/MF A01
Safe Drinking Water Act, Section 1429: Ground Water Report to Congress. Environmental Protection Agency, Washington, DC. Office of Water. D. Coutlakos. Oct 1999, 56p, EPA/816/R-99/016. Prepared in cooperation with Geological Survey, Reston, VA.

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Section 1429 of the Safe Drinking Water Act (SDWA) authorizes the U. S. Environmental Protection Agency (EPA) Administrator to make grants to the states for the development and implementation of programs that ensure the coordinated and comprehensive protection of ground water resources. Under this authority, EPA is also required every three years to evaluate funded state ground water protection programs and report to Congress on the status of ground water quality in the U. S. and the effectiveness of state programs for protecting ground water. Section 1429 of the Safe Drinking Water Act requires EPA to prepare a Report to Congress on ground water protection programs.

Keywords: "Ground water, "Drinking water, States, Protection programs, Congress, United States, Water quality, "Safe Drinking Water Act.

PB2000-102120REB PC A12/MF A03
National Environmental Laboratory Accreditation Conference. Constitution, Bylaws, and Standards. Approved July 1999.

Environmental Protection Agency, Research Triangle Park, NC. Office of Research and Development. Jul 1999, 230p, EPA/600/R-99/068.

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Partial Contents:

- Program policy and structure;
- Introduction (Summary of the NELAC Standards, General application of NELAC Standards);
- Objectives;
- Elements;
- Purpose and scope of NELAC (Purpose, Scope);
- Roles and responsibilities of the Federal Government, The States, and other parties (EPA, States and Federal Agencies as Accrediting Authorities, Reciprocity, Joint Federal and State Roles, Assessor bodies, Other parties);
- Structure of NELAC (The Accrediting Authority Review Board, The Standing Committees);
- Conduct of conference business (The generation of standards, Meetings);
- Organization of the accreditation requirements (General laboratory requirements, chemistry requirements, microbiology requirements, field activities requirements).

Keywords: "Laboratories, "Certification, "Environmental monitoring, Standardization, Inspection, Licensure, Test facilities, Program management, Quality assurance, "National Environmental Laboratory Accreditation, Reference laboratories.

PB2000-102245REB PC A05/MF A01
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. Greenhouse Gases from Small-Scale Combustion Devices in Developing Countries: Charcoal-Making Kilns in Thailand (Report on Phase 3). Rept. for 1994-98.

East-West Center, Honolulu, HI. Environment Program.

K. Smith, D. Pennise, P. Khummongkol, J. Zhang, W. Panyathanya, R. Rasmussen, M. Khalil, V. Chaiwong, and K. Ritgeen. Dec 1999, 74p, EPA/600/R-99/109. Grant EPA-R-820243

Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.

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The report gives results of measurements of airborne emissions, during typical operating conditions, from charcoal-making kilns commonly used in the developing world. The kilns tested were of five types: brick

beehive, mud beehive, earth mound, rice husk mound, and single (oil) drum. Emission factors for the production of charcoal were determined for: (1) the direct greenhouse gases carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O); (2) the indirect greenhouse gases carbon monoxide (CO) and total non-methane hydrocarbons (TNMHCs); and (3) total suspended particulates (TSPs). Charcoal production efficiency (yield) and charcoal and fuelwood composition were determined as well.

Keywords: "Air pollution sources, "Greenhouse gases, "Kilns, "Combustion products, "Thailand, Wood fuels, Charcoals, Carbon, Combustion efficiency, Emission factors, Carbon dioxide, Methane, Hydrocarbons, Nitrogen oxides, Nitrous oxide, Carbon monoxide, Particulates.

PB2000-102353REB PC A05/MF A01
Environmental Protection Agency, Washington, DC. National Center for Environmental Assessment.

Summary of the U.S. EPA Colloquium on a Framework for Human Health Risk Assessment. Colloquium No. 1. Held in Arlington, Virginia on September 28-29, 1997.

Eastern Research Group, Inc., Lexington, MA. 24 Nov 1997, 74p, NCEA-W-0028, EPA/600/R-99/001. Contract EPA-68-D5-0028

See also PB99-136335 (Colloquium No. 2). Sponsored by Environmental Protection Agency, Washington, DC. National Center for Environmental Assessment.

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The U.S. Environmental Protection Agency (EPA) has recognized the need to develop a framework for human health risk assessment that puts a perspective on the approaches in practice throughout the Agency. The framework will be a communication piece that will lay out the scientific basis, principles, and policy choices underlying past and current risk assessment approaches and will provide recommendations for integrating/harmonizing risk assessment methodologies for all human health endpoints. As an initial step in this process, the Agency's Risk Assessment Forum organized a colloquium series, consisting of two internal colloquia. The colloquia brought together EPA scientists for a dialogue on various scientific and policy issues pertaining to EPA's cancer and noncancer risk assessment approaches. The first colloquium focused on the role of mode of action information in re-examining and developing new risk assessment approaches.

Keywords: "US EPA, "Human health, "Risk assessment, "Meetings, Public health, Toxicity, Dose-response relationships, Carcinogenesis, Neoplasms, Case studies, Government policies, Noncancer effects.

PB2000-102354REB PC A09/MF A02
National Health and Environmental Effects Research Lab., Corvallis, OR.

Quantifying Physical Habitat in Wadeable Streams. Surface Waters.

OAO Corp., Corvallis, OR. P. R. Kaufmann, P. Levine, E. G. Robison, C. Seeliger, and D. V. Peck. Jul 1999, 160p, EPA/620/R-99/003. Contracts EPA-68-W5-0065, EPA-68-C6-005

Prepared in cooperation with Oregon State Dept. of Forestry, Salem, and Dynamac International, Inc., Corvallis, OR. Sponsored by National Health and Environmental Effects Research Lab., Corvallis, OR.

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We describe concepts, rationale, and analytical procedures for characterizing physical habitat in wadeable streams based on raw data generated from methods similar or equal to those of Kaufmann and Robison (in PB99-139156). We provide guidance for calculating measures or indices of stream size and gradient, sinuosity, substrate size and stability, habitat complexity and cover, woody debris size and abundance, residual pool dimensions and frequency, riparian vegetation cover and structure, anthropogenic distur-

ances, and channel-riparian interaction. We evaluated sampling precision of field habitat survey methods employed by EMAP in several hundred streams in Oregon and the Mid-Atlantic region, comparing variance among streams ('signals') with variance between repeat stream visits (measurement 'noise'). The final measure of the utility of a habitat approach is whether it is useful for interpreting controls on biota or impacts of human activity.

Keywords: "Aquatic habitats, "Streams, "Quantitative analysis, Surface waters, Data analysis, Measurement, Riparian waters, Environmental surveys, Channel morphology, Substrates, Gradients (Streams), Biological communities, Fish, Riparian plants, Canopies (Vegetation), Ground cover, Statistical analysis, Man environment interactions, EMAP (Environmental Monitoring and Assessment Program).

PB2000-102378REB PC A05/MF A01
National Health and Environmental Effects Research Lab., Duluth, MN.

Review of Single Species Toxicity Tests: Are the Tests Reliable Predictors of Aquatic Ecosystem Community Responses.

California State Water Resources Control Board, Sacramento.

V. deVlaming, and T. J. Norberg-King. Jul 1999, 72p, EPA/600/R-97/114.

See also PB96-141445, and PB96-141452. Sponsored by National Health and Environmental Effects Research Lab., Duluth, MN.

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This document provides a comprehensive review to evaluate the reliability of single species (also referred to as indicator species) toxicity test results in predicting aquatic ecosystem impacts, also known as the ecological relevance of laboratory single species toxicity tests. Since aquatic ecosystem biological assessments have been performed to determine whether toxicity test results are predictive of biological community impacts, the strengths and limitations of these validation tools have been assessed. Ecological relevance has been analyzed in studies on ambient waters, effluents, and other types of aqueous media. Furthermore, the effectiveness of laboratory single species toxicity tests with individual chemicals in predicting biological community impacts and/or environmental adverse effect concentrations is evaluated. Merits of published criticisms of the predictive effectiveness of single species used in laboratory toxicity tests are analyzed. Also, the question of whether single species used in laboratory toxicity tests are more sensitive than most natural populations is discussed. Alternatives to single species toxicity tests are explored.

Keywords: "Biological communities, "Aquatic ecosystems, "Testing, "Toxicity, "Indicator species, Bioindicators, Water pollution effects, Chemical effluents, Chemical compounds, Sea water, Bottom sediments, Bioassay, Environmental impact assessments, Ecological concentration, Environmental surveys, Statistical analysis, Bioassessments.

PB2000-102381REB PC A04/MF A01
Federal Register, Volume 64, Number 140, Thursday, July 22, 1999, Proposed Rules. Part 2. Environmental Protection Agency, 40 CFR, Part 403: Streamlining the General Pretreatment Regulations for Existing and New Sources of Pollution; Proposed Rule.

Environmental Protection Agency, Washington, DC. 22 Jul 1999, 42p.

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EPA is proposing to revise several provisions of the General Pretreatment Regulations that address restrictions on and oversight of industrial users who introduce pollutants into publicly owned treatment works (POTWs). EPA is also proposing changes to certain program requirements to be consistent with National Pollutant Discharge Elimination System (NPDES) requirements. The proposals would reduce the regu-

EPA PUBLICATIONS BIBLIOGRAPHY

latory burden on both industrial users and State and POTW Control Authorities without affecting environmental protection.

Keywords: "Industrial wastes, "Waste water disposal, "Regulations, "Facilities management, "Water pollution control, Water pollution sources, Discharge(Water), Waste water treatment, Sewage treatment plants, Pretreatment, Requirements, Clean Water Act, National Pollutant Discharge Elimination System, State government, Local government, "Waste handlers, "Publicly owned treatment works, National Pretreatment Program.

PB2000-102387REB PC A07/MF A02
Guidance Manual for the Control of Wastes Hauled to Publicly Owned Treatment Works.
Environmental Protection Agency, Washington, DC. Office of Wastewater Management.
Sep 1999, 114p, EPA/833/B-98/003.
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Hauled waste may cause adverse impacts to wastewater treatment plants because it is usually more concentrated than typical domestic wastewater and may not be equalized when discharged. Adverse impacts may include pass through, interference, sludge contamination, and hazards to POTW personnel. To help prevent hauled wastes from causing problems, POTWs need to adequately control the discharge of hauled waste to their treatment plants. This guidance is designed to provide information for smaller POTWs, generally those without pretreatment programs, on how to develop and implement hauled waste controls. The guidance discusses collection of information on waste haulers, characterization of hauled waste received, evaluation of potential impacts, and the development and implementation of controls. The guidance also includes case studies of successful waste hauler programs and example forms.

Keywords: "Sewage treatment plants, "Waste water treatment, "Discharge(Water), "Water pollution control, "Manuals, Water pollution sources, Waste water disposal, Hazardous wastes, Toxic substances, Pretreatment, Sludges, Impact, Permits, Legal aspects, Regulations, National Pollutant Discharge Elimination System, "Publicly owned treatment works, Waste characterization, POTWs(Publicly owned treatment works).

PB2000-102432REB PC A11/MF A03
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. **Lime Manufacturing Emissions Test Report. Chemical Lime Company (Formerly APG Lime Company) Ripplemead, Virginia. Volume 1 of 2. Appendices A and B. Final report.**
Pacific Environmental Services, Inc., Research Triangle Park, NC.
Sep 1999, 224p, EPA/454/R-99/045A.
Contract EPA-68D70069
See also PB2000-102433, Volume 2. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

This report presents the results of a testing program conducted at the Chemical Lime Company (formerly APG Lime Company), Ripplemead, Virginia to obtain air emissions data to support the EPA's development of the lime manufacturing NESHAP. Testing was conducted on a coal-fired rotary kiln to determine total hydrocarbons, particulate matter, metals, and dioxin/furan at the inlet and outlet of the baghouse. In addition, testing was conducted on a cooler exhaust stack to determine uncontrolled emissions of particulate matter and metals.

Keywords: "Mineral industry, "Lime, "Manufacturing, "Baghouses, "Air pollution sampling, Industrial plants, Kilns, Stack gases, Emission factors, Air pollution monitoring, Hydrocarbons, Dioxins, Furans, Metals, Particulates, Analytical methods, Quality assurance, Ta-

bles(Data), Ripplemead(Virginia), NESHAP(National Emission Standards for Hazard Air Pollutants), Fugitive emissions.

PB2000-102433REB PC A99/MF E08
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. **Lime Manufacturing Emissions Test Report. Chemical Lime Company (Formerly APG Lime Company) Ripplemead, Virginia. Volume 2 of 2. Appendices C-F. Final report.**
Pacific Environmental Services, Inc., Research Triangle Park, NC.
Sep 1999, 818p, EPA/454/R-99/045A.
Contract EPA-68D700069
See also PB2000-102432, Volume 1. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

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Keywords: "Mineral industry, "Lime, "Manufacturing, "Baghouses, "Air pollution sampling, Industrial plants, Kilns, Stack gases, Emission factors, Air pollution monitoring, Hydrocarbons, Dioxins, Furans, Metals, Particulates, Analytical methods, Quality assurance, Tables(Data), Graphs(Charts), Ripplemead(Virginia), NESHAP(National Emission Standards for Hazard Air Pollutants), Fugitive emissions.

PB2000-102449REB PC A11/MF A03
Regulatory Impact Analysis and Revised Health Risk Reduction and Cost Analysis for Radon in Drinking Water. Public Comment Draft.
Environmental Protection Agency, Washington, DC. Office of Water.
Nov 1999, 224p, EPA/815/D-99/002.
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Table of Contents:
Executive Summary;
Introduction;
Health Effects From Radon Exposure;
Consideration of Regulation Alternatives;
Baseline Analysis;
Benefits Analysis;
Cost Analysis Compliance With an MCL;
Economic Impact Analysis;
Results:
Weighing the Costs and Benefits of the Proposed Rule;
Costs and Benefits of 100 Percent Compliance With an MCL;
(Appendix A) Equations and Parameter Values Used in the Assessment of Risks and Risk Reduction Benefits;
(Appendix B) Cost Curves for Radon Reduction and Disinfection Technologies;
(Appendix C) Flow Estimation Equations for Public and Private Water Systems;
(Appendix D) Summary Cost Tables;
(Appendix E) MMM Scenario Cost and Benefit Tables;
and (Appendix F) NTNCWS Cost and Benefit Tables.

Keywords: "Radon 222, "Drinking water, "Risk assessment, "Health hazards, "Cost analysis, Potable water, Water supply, Regulations, Water systems, Water quality standards, Standards compliance, Requirements, Economic analysis, Cost benefit analysis, Cost estimation, Economic impact, Health effects, Alternatives, "Regulatory impact analysis, MCL(Maximum

Contaminant Level), MMM(Multimedia Mitigation), NTNCWS(Non-Transient Non-Community Water Systems).

PB2000-102451REB PC A05/MF A01
Environmental Protection Agency, Washington, DC. Office of Water.
Small System Regulatory Requirements under the Safe Drinking Water Act as Amended in 1996. Fact Sheets for Existing and Future Rules. Case Studies: Cost Estimates of Small System Compliance.
Cadmus Group, Inc., Waltham, MA.
Jul 1999, 52p, EPA/816/R-99/011.
Sponsored by Environmental Protection Agency, Washington, DC. Office of Water.
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Contents:
Current SDWA Requirements (Stage 1 Disinfection By-Products Rule;
Surface Water Treatment Rule;
Total Coliform Rule;
Lead and Copper Rule;
Chemical Monitoring Phase II/V;
Radionuclides;
Public Notification Rule;
Consumer Confidence Reports);
Future SDWA Requirements (Ground Water Rule;
Long Term 1 Enhanced Surface Water Treatment Rule;
Arsenic;
Radon;
Radionuclides;
Filter Backwash Recycling);
Case Studies:
Cost Estimates of Small System Compliance.

Keywords: "Water systems, "Regulations, "Compliance, Safe Drinking Water Act, Requirements, Water quality standards, Potable water, Water supply, Cost estimation, Case studies, "Small systems.

PB2000-102452REB PC A09/MF A02
Office of Wastewater Management: Catalog of Publications, October 1999.
Environmental Protection Agency, Washington, DC. Office of Water.
Oct 1999, 154p, EPA/832/B-99/004.
Supersedes PB99-111684.
Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

This catalog divides the documents into fifteen broad subject sections: (1) Biosolids; (2) Construction Grants; (3) Environmental Impact Statements; (4) Federal Registers; (5) Finance; (6) Needs and Assessments; (7) Operation and Maintenance; (8) Permitting Issues; (9) Pollution Prevention and Control; (10) Pretreatment; (11) Small Communities; (12) Storm Water/Combined Sewer Overflows.

Keywords: "US EPA, "Catalogs(Publications), Waste water treatment, Water treatment plants, Sewage treatment plants, Operation and maintenance, Construction, Storm water runoff, Combined sewers, Overflow, Pretreatment, Sewage sludge, Permits, Water quality management, Water conservation, Water pollution control, Environmental impact statements, Financial statements, Funding, Grants, Program management, Clean Water Act, Pollution regulations, Listings, "Office of Wastewater Management, Biosolids, Pollution prevention, Small systems.

PB2000-102455REB PC A12/MF A03
Methods, Occurrence and Monitoring Document for Radon from Drinking Water. Public Comment Draft.
Environmental Protection Agency, Washington, DC. Office of Water.
Nov 1999, 232p, EPA/815/D-99/003.
Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at

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These Methods, Occurrence, and Monitoring (MOM) Document has been developed by EPA in support of the rulemaking process for radon in drinking water. The Agency is proposing a Maximum Contaminant Level Goal (MCLG) and National Primary Drinking Water Regulations (NPDWR) for radon-222 in public water supplies. The purposes of this document are: identification of available analytical methods for monitoring radon in groundwater sources and in drinking water; discussion of the patterns of occurrence of radon in groundwater and drinking water; and explanation of alternative monitoring schemes for assuring compliance with the proposed rule.

Keywords: *Radon 222, *Drinking water, *Radiochemical analysis, *Radiation monitoring, Potable water, Ground water, Water supply, Water sources, Analytical methods, Radioecological concentration, Standards compliance, Water quality standards, Risk analysis, Patterns.

PB2000-102456REB PC A12/MF A03
Environmental Protection Agency, Washington, DC. Office of Water.

Technologies and Costs for the Removal of Radon from Drinking Water. Public Comment Draft. Science Applications International Corp., McLean, VA. F. Bekdash, P. Rana, T. Scriba, D. Benelmouffok, M. Waldron, and A. Palit. May 1999, 228p, EPA/815/D-99/004.

Contract EPA-68-C6-0059. Sponsored by Environmental Protection Agency, Washington, DC. Office of Water. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The purpose of this document is to assist the U.S. Environmental Protection Agency (EPA) in updating the radon-relevant portions of its 'Technologies and Costs' (T&C) documents developed to support the 1991 proposed radionuclides rule. This document is organized as follows: List of Abbreviations; List of Definitions and Conversion Units; Table of Contents; List of Figures; List of Tables; (Chapter 1) Introduction: Presents general information on the chemical and physical properties of radon and the regulatory background, and defines the objectives of this document; (Chapter 2) Removal of Radon from Drinking Water: Discusses technologies and techniques for removing radon from drinking water sources. Technologies presented include various aeration technologies, granular activated carbon (GAC) treatment, and other low technology radon removal techniques. Also, this chapter discusses pre- and post treatment requirements for selected radon removal technologies; (Chapter 3) Best Management Practices: Presents an overview of best management practices (BMPs) for removing moderate amounts of radon from drinking water sources; (Chapter 4) Radon Removal Costs: Provides information on available cost models used for costing various radon removal technologies and presents costs for various system size categories and types; and (Appendix A) Provides supporting information for cost analysis and possible off-gas emissions regulations.

Keywords: *Radon 222, *Water treatment, *Removal, *Drinking water, Water supply, Potable water, Water sources, Aeration, Granular bed filters, Activated carbon treatment, Pretreatment, Emissions, Off-gas systems, Operation and maintenance, Cost models, Cost estimation, Capitalized costs, Operating costs, Case studies, Best Management practices, Treatment Technology.

PB2000-102464REB PC A17/MF A03
Environmental Protection Agency, Washington, DC. National Center for Environmental Assessment. **Sociodemographic Data Used for Identifying Potentially Highly Exposed Populations.**

Versar, Inc., Springfield, VA. P. Wood, M. Wilson, A. Adenuga, S. Anderson, and L. Phillips. Jul 1999, 352p, NCEA-W-0071, EPA/600/R-99/060.

Contracts EPA-66-D3-0013, EPA-68-D5-0051 See also PB98-124217. Sponsored by Environmental Protection Agency, Washington, DC. National Center for Environmental Assessment.

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The document assists assessors in identifying and enumerating potentially highly exposed populations. This document presents data relating to factors which potentially impact an individual or group's exposure to environmental contaminants based on activity patterns (how time is spent), microenvironments (locations where time is spent), and other socio-demographic data such as age, gender, race and economic status. Populations potentially more exposed to various chemicals of concern, relative to the general population, is also addressed.

Keywords: *Social factors, *Demography, *Environmental exposure pathway, *Human populations, Hazardous materials, Toxic substances, Chemical compounds, Drinking water, Water consumption, Consumer products, Food consumption, Occupational exposure, Waste disposal, Inhalation, Ingestion(Biology), Dermal absorption, Residential buildings, Activities of daily living, Factor analysis, Position(Location), Culture(Social sciences), Ethnic groups, Trends, Statistical analysis, Socioeconomic conditions.

PB2000-102474REB PC A11/MF A03
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

Lime Manufacturing Emissions Test Report (Fourier Transform Infrared Spectroscopy). Chemical Lime Company (Formerly Eastern Ridge Lime Company) Ripplemead, Virginia. Midwest Research Inst., Kansas City, MO. 30 Sep 1999, 218p, EPA/454/R-99/051.

Contract EPA-68-D-98-027. See also PB2000-102475, and PB99-169245. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

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The purpose of this project was to measure organic and inorganic hazardous air pollutants (HAPs) using a test method based on Fourier Transform Infrared Spectroscopy. This report describes the test procedures and presents results of the testing at Eastern Ridge Lime plant in Ripplemead, Virginia.

Keywords: *Mineral industry, *Lime, *Air pollution sampling, *Fourier transform infrared spectroscopy, Air pollution monitoring, Industrial plants, Kilns, Stack gases, Scrubbers, Air pollution control equipment, Test methods, Analytical methods, Quality control, Quality assurance, *Hazardous air pollutants, Ripplemead(Virginia), NESHAP(National Emission Standards for Hazardous Air Pollutants), MACT(Maximum Achievable Control Technology).

PB2000-102475REB PC A13/MF A03
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

Lime Manufacturing Emissions Test Report (Fourier Transform Infrared Spectroscopy). Final Report. Chemical Lime Company (Formerly APG Lime Company) Ripplemead, Virginia. Midwest Research Inst., Kansas City, MO. 30 Sep 1999, 258p, EPA/454/R-99/046.

Contract EPA-68-D-98-027. See also PB2000-102474. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The purpose of this project was to measure organic and inorganic hazardous air pollutants (HAPs) using a test method based on Fourier Transform Infrared Spectroscopy. This report describes the test procedures and presents results of the testing at APG Lime plant in Ripplemead, Virginia.

Keywords: *Mineral industry, *Lime, *Air pollution sampling, *Fourier transform infrared spectroscopy, Air pollution monitoring, Industrial plants, Kilns, Stack gases, Scrubbers, Baghouses, Air pollution control equipment, Test methods, Analytical methods, Quality control, Quality assurance, *Hazardous air pollutants, Ripplemead(Virginia), NESHAP(National Emission Standards for Hazardous Air Pollutants), MACT(Maximum Achievable Control Technology).

PB2000-102483REB PC A05/MF A01
Potential Species for Phytoremediation of Perchlorate. Research rept.

Environmental Protection Agency, Athens, GA. National Exposure Research Lab. S. Susarla, S. T. Bacchus, S. C. McCutcheon, and N. L. Wolfe. Aug 1999, 66p, EPA/600/R-99/069.

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Three laboratory-scale experiments were conducted to: (1) evaluate the ability of selected terrestrial, wetland, and aquatic plants to remove perchlorate from an aqueous solution; (2) compare the performance of different age classes of ne plant species; (3) evaluate the role of nutrients on perchlorate removal; (4) determine the fate of perchlorate removed from solution (e.g., plant tissue distribution; accumulation vs. breakdown); (5) document external plant responses to perchlorate; and (6) predict field-scale performance of the plant species evaluated. Perchlorate concentrations of 0.2, 2.0, and 20 ppm were tested in aqueous and sand treatments for ten-day periods in each experiment.

Keywords: *Soil treatment, *Water treatment, *Performance evaluation, *Perchlorates, Soil contamination, Land pollution control, Ground water, Water pollution control, Wetlands, Aquatic plants, Removal, Nutrients, Plant tissues, Uptake, Ecological concentration, Bioaccumulation, Response.

PB2000-102759REB PC A04/MF A01
Guardian: EPA's Formative Years, 1970-1973. Environmental Protection Agency, Washington, DC.

D. C. Williams. Sep 1993, 40p, EPA/202/K-93/002. See also PB92-182377.

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Few federal agencies evoke as much emotion in the average American as the U.S. Environmental Protection Agency (EPA). Either directly or indirectly, the agency's operations confront the average person in intimate ways. The agency has continued to follow many of the pollution control strategies set forth by its first administrator, William D. Ruckelshaus. Understanding the course set by Ruckelshaus and his staff illuminates not only EPA's past, but clarifies the agency's place in American society today.

Keywords: *US EPA, *History, Federal agencies, Environmental protection, Regulations, Enforcement, Environmental issues, Pollution control, Waste management.

PB2000-102815REB PC A07/MF A02
Intensive Survey of the Marys River Basin. Summer 1995.

Illinois State Environmental Protection Agency, Springfield. Bureau of Water. S. P. Shasteen, D. B. Muir, G. L. Minton, M. R. Matson, and R. L. Hite. Mar 1998, 122p, IEPA/BOW/98-001.

See also PB97-177901. Prepared in cooperation with Illinois Dept. of Natural Resources, Springfield. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

This Illinois Environmental Protection Agency (Illinois EPA) report is a product of an ongoing statewide effort to assess Illinois stream quality and to identify causes and sources of surface water use impairments. The

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1995 Intensive Survey of the Marys River basin was developed in conjunction with the Illinois Cooperative Intensive Basin Survey Program jointly conducted by the Illinois EPA and the Illinois Department of Natural Resources. This report, which describes the quality of surface water resources in the Marys River basin, is one of a series of Illinois EPA reports generated from this Cooperative Intensive Basin Survey Program.

Keywords: "Marys River, "River basins, "Water pollution sources, "Impaired water use, Surface waters, Water quality, Nonpoint sources, Waste water disposal, Aquatic habitats, Fish habitats, Invertebrates, Coal mining, Water treatment plants, Sediment load, Water pollution sampling, Water pollution monitoring, Chemical analysis, Environmental surveys, Illinois, Randolph County(Illinois), Cooperative Intensive Basin Survey Program.

PB2000-102821REB PC A04/MF A01
Driving Investment in Energy Efficiency: ENERGY STAR (Trade Name) and Other Voluntary Programs. 1998 Annual Report.
Environmental Protection Agency, Washington, DC. Office of Air and Radiation.
Jul 1999, 40p, EPA/430/R-99/005.
See also PB98-173776.
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This annual report summarizes the environmental and economic results from the partnership programs of the Climate Protection Division through the end of 1998: Energy Star Buildings(SM) and Green Lights(Trademark); Energy Star(Trademark)-Labeled Products; Methane Partnerships; and Environmental Stewardship Programs.

Keywords: "Energy efficiency, "Air pollution abatement, "Investments, Greenhouse gases, Emissions, Buildings, Energy use, Environmental protection, Economic analysis, Cost effectiveness, Government programs, Cooperation, "Public-private partnerships, Energy Star program, Green Lights Program, Methane partnership, Environmental Stewardship Program.

PB2000-102824REB PC A18/MF A03
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. **FTIR and Method 25A Emissions Test at an Integrated Iron and Steel Manufacturing Plant: Youngstown Sinter Company of WCI Steel, Inc., Youngstown, Ohio.**
Midwest Research Inst., Kansas City, MO.
Sep 1999, 376p, EPA/454/R-99/034.
Contract EPA-68-D-98-027
Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
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The purpose of this testing program was to obtain emissions data by using FTIR and EPA Method 25a on a sintering process to quantify and characterize HAP and other detected emissions and the performance of the control unit for MACT standard development for this industry (Integrated Iron and Steel).

Keywords: "Air pollution sampling, "Iron and steel industry, "Steel plants, "Emission tests, Fourier transform infrared spectroscopy, Air pollution detection, Sintering, Baghouses, Hydrocarbons, Steel making, Chemical analysis, Test methods, Quality control, Quality assurance, EPA Method 25A, MACT(Maximum Achievable Control Technology), NESHAP(National Emission Standards for Hazardous Air Pollutants), National Emission Standards for Hazardous Air Pollutants.

PB2000-102828REB PC A11/MF A03
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

Lime Manufacturing Emissions Test Report. Chemical Lime Company (Formerly Eastern Ridge Lime Company), Ripplemead, Virginia. Final Report. Volume 1 of 2. Final rept.
Pacific Environmental Services, Inc., Research Triangle Park, NC.
Sep 1999, 222p, EPA/454/R-99/044A.
Contracts EPA-68D70069, EPA-68D20162
See also PB2000-102829 (Volume 2). Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

This report presents the results of a testing program conducted at the Chemical Lime Company (formerly Eastern Ridge Lime Company), Ripplemead, Virginia to obtain air emissions data to support the EPA's development of the lime manufacturing NESHAP. Testing was conducted on a coal-fired rotary kiln to (1) determine total hydrocarbons (THC) at the common inlet and individual outlets of two parallel wet scrubbers and (2) determine concentrations and mass rates of particulate matter (PM) metals, and dioxin/furan (CDD/CDF) at the individual outlets of the two scrubbers. In addition, testing was conducted on the hydrator exhaust to determine emissions of PM and metals.

Keywords: "Lime, "Manufacturing, "Mineral industry, "Air pollution sampling, "Emission tests, Industrial plants, Kilns, Emissions, Stack gases, Baghouses, Scrubbers, Air pollution control equipment, Dioxins, Furans, Hydrocarbons, Particulates, Metals, Chemical analysis, Analytical methods, Tables(Data), Graphs(Charts), Ripplemead(Virginia), NESHAP(National Emission Standards for Hazardous Air Pollutants).

PB2000-102829REB PC A99/MF E08
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. **Lime Manufacturing Emissions Test Report. Chemical Lime Company (Formerly Eastern Ridge Lime Company), Ripplemead, Virginia. Final Report. Volume 2 of 2.**
Pacific Environmental Services, Inc., Research Triangle Park, NC.
Sep 1999, 816p, EPA/454/R-99/044B.
Contracts EPA-68D70069, EPA-68D20162
See also PB2000-102828 (Volume 1). Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

This report presents the results of a testing program conducted at the Chemical Lime Company (formerly Eastern Ridge Lime Company), Ripplemead, Virginia to obtain air emissions data to support the EPA's development of the lime manufacturing NESHAP. Testing was conducted on a coal-fired rotary kiln to (1) determine total hydrocarbons (THC) at the common inlet and individual outlets of two parallel wet scrubbers and (2) determine concentrations and mass rates of particulate matter (PM) metals, and dioxin/furan (CDD/CDF) at the individual outlets of the two scrubbers. In addition, testing was conducted on the hydrator exhaust to determine emissions of PM and metals.

Keywords: "Lime, "Manufacturing, "Mineral industry, "Air pollution sampling, "Emission tests, Industrial plants, Kilns, Emissions, Stack gases, Baghouses, Scrubbers, Air pollution control equipment, Dioxins, Furans, Hydrocarbons, Particulates, Metals, Chemical analysis, Analytical methods, Tables(Data), Graphs(Charts), Ripplemead(Virginia), NESHAP(National Emission Standards for Hazardous Air Pollutants).

PB2000-102835REB PC A06/MF A01
Waste Research Strategy.
National Risk Management Research Lab., Cincinnati, OH.
Feb 1999, 80p, EPA/600/R-98/154.
See also PB96-178041.
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customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

This document describes a strategy to focus waste research at a national level to reduce the greatest risks to people and the environment. This strategy identifies four research topic areas which correspond to the major waste-related environmental problems (contaminated ground water, contaminated soil/vadose zone, emissions from waste combustion facilities, and active waste management facilities). The strategy prioritizes research activities that ORD should undertake through Fiscal Year 2000 (FY00). This report is organized into three chapters. Chapter 1 summarizes the major waste problems facing the United States, associated risks to human health and the environment, and costs of proper management and cleanup. Chapter 2 contains the essence of the strategy. It first lists waste research needs; then describes the four environmental problem areas plus technical support along with related research activities for each topic; and finally presents the ranking of the activities with the rationales from the rankings. The conclusions of the strategy are discussed in Chapter 3 along with outstanding issues that require further evaluation.

Keywords: "US EPA, "Research and development, "Priorities, "Strategy, "Planning, Research programs, Research management, Hazardous wastes, Solid waste management, Remediation, Water pollution control, Ground water, Land pollution control, Soil contamination, Incinerators, Waste processing plants, Facilities management, Oil spills, Storage tanks, Leakage, Emissions, Environmental issues.

PB2000-102873REB PC A09/MF A02
Economic Impact Analysis for the Final Secondary Aluminum Production National Emission Standard for Hazardous Air Pollutants.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. L. M. Chappell, and J. King. Dec 1999, 156p, EPA/452/R-99/006.
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This report evaluates the impacts of the final rule for controls of hazardous air pollutants (HAPs) in the Secondary Aluminum industry. Social costs are estimated by evaluating costs of compliance with the rule and associated market impacts including: potential price changes in secondary aluminum, possible changes in the quantity of secondary aluminum produced, small entity impacts, and employment impacts.

Keywords: "Aluminum industry, "Secondary materials industry, "Air pollution standards, "Economic impact, Air pollution control, Die casting, Smelters, Foundries, Air pollution economics, Social effect, Standards compliance, Inventories, Metal scrap, Employment, Small business, Prices, Markets, Supply and demand, Cost benefit analysis, Environmental impacts, "National Emission Standards for Hazardous Air Pollutants, "NESHAP(National Emission Standards for Hazardous Air Pollutants), Regulatory impact analysis.

PB2000-102893REB PC A06/MF A01
Profile of Innovative Treatment Technology Providers.
Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.
Jan 2000, 82p, EPA/542/R-99/012.
Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The purpose of this study is to offer detailed information about the market, financial, and stock market performance over time of a sector of the environmental technology market - companies that offer innovative remediation technology approaches. While successful commercialization of technologies is tied to many factors, this report attempts to provide a realistic backdrop and set of expectations for financial performance for new entrants into that market. This multi-year review

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highlights the importance of building alliances beyond the market niche of remediation to achieve better financial results. It addition, by reviewing both the successful and the less successful approaches that have been taken, the report suggests strategies for achieving successful commercialization.

Keywords: *Small business, *Financial management, *Trends, Performance, Stocks(Finance), Market value, Earnings, Commercialization, Technology innovation, Pollution control, *Innovative treatment technology, Environmental media, VISITT(Vendor Information System for Innovative Treatment Technologies).

PB2000-102899REB PC A12/MF A03
Reregistration Eligibility Decision (RED): EPTC. (Includes RED Facts: EPTC Fact Sheet). Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances. Dec 1999, 228p, EPA/738/R-99/006. For Fact Sheet only, see PB2000-102900. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The Environmental Protection Agency (EPA) has completed its reregistration eligibility decision (RED) for the pesticide S-ethyl dipropylthiocarbamate (EPTC) and determined that all uses, when labeled and used as specified in the document, are eligible for reregistration. The document presents the Agency's decision regarding the reregistration eligibility of the registered uses of EPTC, including the risk to infants and children for potential dietary, drinking water, dermal or oral exposures. Section I is the introduction. Section II describes EPTC, its uses, data requirements, and regulatory history. Section III discusses the human health and environmental assessment based on the data available to the Agency. Section IV presents the reregistration decision for EPTC and Section V discusses the reregistration requirements for EPTC. Finally, Section VI contains the Appendices that support this RED.

Keywords: *Pesticides, Thiocarbamates, Weed control, Herbicides, Toxicity, Risk assessment, Humans, Animals, Exposure, Environmental transport, Chemical properties, Environmental impacts, Pollution regulations, Administrative procedures, Requirements, *EPTC, *Reregistration, S-ethyl dipropylthiocarbamate, Use patterns, CAS 759-94-4.

PB2000-102900REB PC A02/MF A01
RED Facts: EPTC. Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances. Dec 1999, 10p, EPA/738/R-99/011. See also PB2000-102899. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

This fact sheet summarizes the information in the RED document for reregistration case 0064, EPTC (S-Ethyl dipropylthiocarbamate). EPTC is a pre-emergence and early post-emergence thiocarbamate herbicide used to control the growth of germinating annual weeds, including broadleaves, grasses, and sedges.

Keywords: *Pesticides, Thiocarbamates, Weed control, Herbicides, Toxicity, Risk assessment, Humans, Animals, Exposure, Environmental transport, Chemical properties, Environmental impacts, Pollution regulations, Administrative procedures, Requirements, *EPTC, *Reregistration, S-ethyl dipropylthiocarbamate, Use patterns, CAS 759-94-4.

PB2000-102903REB PC A04/MF A01
Environmental Protection Agency, Washington, DC. Technology Innovation Office.
Perspectives on Private Investment in Innovative Remediation Technology Companies. Environmental Capital Network, Ann Arbor, MI. Center for Environmental Policy, Economics and Science. Dec 1999, 34p. Sponsored by Environmental Protection Agency, Washington, DC. Technology Innovation Office. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S.

customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The purpose of this report is to develop a framework for the Environmental Capital Network (ECN) and for policy makers to significantly accelerate the successful commercialization of innovative clean-up, treatment and site characterization remediation technologies. More specifically, ECN has attempted to identify and understand the steps that can be taken to increase the quantity and speed of private equity investments in early stage companies developing and commercializing innovative remediation technologies.

Keywords: *Investments, *Small business, Capital, Fixed investment, Financing, Market analysis, Technology innovation, Commercialization, Remediation, Site characterization, Waste treatment, *Environmental Capital Network, *Innovative treatment technologies.

PB2000-102921REB PC A18/MF A04
National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development.
Superfund Innovative Technology Evaluation Program. Technology Profiles. Tenth Edition. Volume 1. Demonstration Program. Tetra Tech EM, Inc., Cincinnati, OH. Jul 1999, 394p, EPA/540/R-99/500A. Contract EPA-68-C5-0037. See also PB2000-102922 (Volume 2) and PB2000-102923 (Volume 3). Sponsored by National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The U.S. Environmental Protection Agency's (EPA) Superfund Innovative Technology Evaluation (SITE) includes the 'Demonstration Program' which evaluates and verifies cost and performance of promising innovative technologies at selected hazardous waste sites to provide reliable performance, cost, and applicability information for site clean-up decision making. The Demonstration Program currently has 106 developers conducting 116 demonstrations. Of these projects, 85 demonstrations are complete and 28 are ongoing. The projects are divided into the following categories: thermal destruction (1), biological degradation (21), physical/chemical treatment (45), solidification/stabilization (10), physical/chemical radioactive waste treatment (2), physical/chemical thermal desorption (19), physical/chemical biological degradation (1), materials handling (3), and other (2). Several technologies represent more than one treatment category.

Keywords: *Superfund, *Hazardous wastes, *Air pollution control, *Land pollution control, *Water pollution control, *Waste treatment, *Demonstration programs, *Performance evaluation, Remediation, Technology transfer, Monitoring, Soil contamination, Sediments, Sludge treatment, Leachate, Waste water treatment, Ground water, Oil wastes, Biodegradation, Air treatment, Filtration, Stabilization, Solidification, Tailings, Mine wastes, Liquid wastes, Heat treatment, Physical treatment, Biological treatment, Chemical treatment, Steam injection, Soil treatment, Water treatment, Solid waste management, Technology innovation, SITE(Superfund Innovative Technology Evaluation), *Superfund Innovative Technology Evaluation, *Innovative treatment technologies, Mixed wastes, Bioremediation, Phytoremediation, Soil washing, Soil vapor extraction.

PB2000-102922REB PC A14/MF A03
National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development.
Superfund Innovative Technology Evaluation Program. Technology Profiles. Tenth Edition. Volume 2. Emergency Technology Program. Tetra Tech EM, Inc., Cincinnati, OH. Jul 1999, 294p, EPA/540/R-99/500B. Contract EPA-68-C5-0037. See also PB2000-102921 (Volume 1) and PB2000-102923 (Volume 3). Sponsored by National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S.

customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The U.S. Environmental Protection Agency's (EPA) Superfund Innovative Technology Evaluation (SITE) includes the 'Emerging Technology Program' which provides funding to developers to continue research efforts from the bench- and pilot-scale levels to promote the development of innovative technologies. EPA has provided technical and financial support to 77 projects in the Emerging Technology Program. Of these projects, 66 are completed, 7 are continuing in the program, and 4 have exited the program. Eighteen Emerging Technology Program projects are participating in the Demonstration Program, and 7 of these demonstration projects are completed. The 73 active technologies are divided into the following categories: thermal destruction (9), physical/chemical treatment (38), biological degradation (19), solidification/stabilization (2), and materials handling (5).

Keywords: *Superfund, *Hazardous wastes, *Air pollution control, *Land pollution control, *Water pollution control, *Waste treatment, *Bench-scale experiments, Technology transfer, Monitoring, Soil contamination, Sediments, Sludge treatment, Leachate, Waste water treatment, Ground water, Oil wastes, Air treatment, Filtration, Stabilization, Solidification, Tailings, Mine wastes, Liquid wastes, Heat treatment, Physical treatment, Biological treatment, Chemical treatment, Steam injection, Soil treatment, Water treatment, Soil waste management, Technology innovation, Remediation, *Emerging technologies, *SITE(Superfund Innovative Technology Evaluation), *Superfund Innovative Technology Evaluation, Innovative treatment technologies, Mixed wastes, Bioremediation, Phytoremediation, Soil washing, Soil vapor extraction.

PB2000-102923REB PC A12/MF A03
National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development.
Superfund Innovative Technology Evaluation Program. Technology Profiles Tenth Edition. Volume 3. Monitoring and Measurement Program. Tetra Tech EM, Inc., Cincinnati, OH. Jul 1999, 240p, EPA/540/R-99/500C. Contract EPA-68-C5-0037. See also PB2000-102921 (Volume 1) and PB2000-102922 (Volume 2). Sponsored by National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development. Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The U.S. Environmental Protection Agency's (EPA) Superfund Innovative Technology Evaluation (SITE) includes the 'Monitoring and Measurement Technologies Program' which evaluates technologies that detect, monitor, and measure hazardous and toxic substances to provide more cost-effective methods for producing real-time data during site characterization and remediation. The Monitoring and Measurement Technologies (MMT) Program's goal is to assess innovative and alternative monitoring, measurement, and site characterization technologies. To date, 38 technology demonstrations have occurred under the MMT Program. These demonstrations have included four cone penetrometers, 6 field portable x-ray fluorescence.

Keywords: *Superfund, *Hazardous wastes, *Air pollution control, *Land pollution control, *Water pollution control, *Waste treatment, *Site characterization, *Cost effectiveness, Remediation, Technology transfer, Monitoring, Soil contamination, Sediments, Sludge treatment, Leachate, Waste water treatment, Ground water, Oil wastes, Air treatment, Filtration, Stabilization, Solidification, Tailings, Mine wastes, Liquid wastes, Heat treatment, Physical treatment, Biological treatment, Chemical treatment, Steam injection, Soil treatment, Water treatment, Soil waste management, Technology innovation, *SITE(Superfund Innovative Technology Evaluation), *Superfund Innovative Technology Evaluation, Innovative treatment technologies, Mixed wastes, Bioremediation, Phytoremediation, Soil washing, Soil vapor extraction.

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Jul 1999, 700p, EPA/454/R-99/025.
Contract EPA-68-D-70069
See also PB2000-102925 (Volume 2), and PB99-163453. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
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The United States Environmental Protection Agency (EPA) is investigating iron and steel foundries to identify and quantify hazardous air pollutants (HAPs) emitted from cupolas; electric arc furnaces; and pouring, cooling and shakedown operations of sand mold casting processes. General Motors Corporation, Saginaw Casting Operations (GMC), Saginaw, Michigan was selected by the EPA as the host facility at which to (1) characterize HAP emissions from cupolas that are controlled by wet scrubbers, and (2) assess wet scrubber performance in controlling HAP emissions from cupolas. This report presents the results of a manual emissions testing program to characterize emissions from a cupola and assess the performance of the wet scrubber in controlling HAP emissions. Testing was conducted at the cupola wet scrubber inlet and outlet to determine air emissions of particulate matter (PM) and metal HAPs; and at the cupola wet scrubber outlet to determine organic HAPs consisting of dibenzo-p-dioxins and polychlorinated dibenzodioxins (PCDDs/PCDFs) and semi-volatile organic hazardous air pollutants (SVOHAPs), and volatile organic hazardous air pollutants (VOHAPs). The data may be used by the EPA as potential Maximum Achievable Control Technology (MACT) floor technology for cupolas.

Keywords: "Air pollution sampling, "Air pollution control equipment, "Foundries, "Iron and steel industry, Cupolas, Foundry practice, Sand casting, Electric arc furnaces, Emissions, Stack gases, Dioxins, Furans, Metals, Particulates, Measurement, Scrubbers, Wet methods, Data acquisition, Data analysis, Quality assurance, Tables(Data), Graphs(Charts), Volatile organic compounds, Semivolatile organic compounds, Hazardous air pollutants, NESHAP(National Emission Standards for Hazardous Air Pollutants), MACT(Maximum Achievable Control Technology), Emission rates, Saginaw(Michigan).

PB2000-102925REB PC A22/MF A04
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. **Iron and Steel Foundries Manual Emissions Testing Cupola Wet Scrubber General Motors Corp., Saginaw, Michigan. Final Report. Volume 2 of 2. Appendices C-F.** Pacific Environmental Services, Inc., Research Triangle Park, NC.
Jul 1999, 496p, EPA/454/R-99/026B.
Contract EPA-68-D-70069
See also PB2000-102924 (Volume 1). Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
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Table of Contents:
Appendix C - Analytical Data, Particulate Matter and Metals;
Appendix D - Calculations;
Appendix E - QA/QC Data;
and Appendix F - Participants.

Keywords: "Air pollution sampling, "Air pollution control equipment, "Foundries, "Iron and steel industry, Cupolas, Foundry practice, Sand casting, Electric arc furnaces, Emissions, Stack gases, Dioxins, Furans, Metals, Particulates, Measurement, Scrubbers, Wet methods, Data acquisition, Data analysis, Quality assurance,

Tables(Data), Graphs(Charts), Volatile organic compounds, Semivolatile organic compounds, Hazardous air pollutants, NESHAP(National Emission Standards for Hazardous Air Pollutants), MACT(Maximum Achievable Control Technology), Emission rates, Saginaw(Michigan).

PB2000-102926REB PC A08/MF A02
National Health and Environmental Effects Research Lab., Narragansett, RI. Atlantic Ecology Div. **EMAP-Virginia Province Four-Year Assessment (1990-93).** Science Applications, Inc., Newport, RI.
J. F. Paul, J. H. Gentile, K. J. Scott, R. W. Latimer, S. C. Schimmel, and D. E. Campbell. Oct 1999, 144p, EPA/620/R-99/004, NHEERL-NAR-1837.
Contract EPA-68-01-0005
See also PB96-143409. Prepared in cooperation with Rosenstiel School of Marine and Atmospheric Science, Miami, FL. Sponsored by National Health and Environmental Effects Research Lab., Narragansett, RI. Atlantic Ecology Div.
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Assessments with the four years (1990-93) of ecological condition data collected by the USEPA Environmental Monitoring and Assessment Program (EMAP) in estuaries of the Virginian Biogeographic Province (Cape Henry to Cape Cod) were presented. EMAP data were used to quantify, with confidence, the condition of ecological resources within the broad-expanse of estuarine waters comprising the Virginian Province, as well as its large and small estuarine systems and five major tidal rivers. Over the four-year period, sufficient sampling sites were available to characterize the condition of ecological resources for four major watershed systems within the province (Chesapeake Bay, Delaware Bay, Hudson-Raritan system, and Rappahannock, and James Rivers). Results clearly showed that the EMAP objectives were not only reasonable but were achievable with available indicators collected with a probability-based sampling design. It was shown that the EMAP design can be used to quantify with confidence the condition of ecological resources.

Keywords: "Biogeography, "Environmental impacts, "Water pollution effects, Chesapeake Bay, Delaware Bay, Long Island Sound, Estuaries, Watersheds, Aquatic habitats, Bioindicators, Ecosystems, Sampling, Toxicity, Sediments, Regional analysis, "Virginian Province, "Environmental Monitoring and Assessment Program, "EMAP(Environmental Monitoring and Assessment Program), Middle Atlantic Region(United States).

PB2000-102927REB PC A03/MF A01
Persistence of DDT Residues and Dieldrin Off a Pesticide Processing Plant in San Francisco Bay, California. National Health and Ecological Effects Research Lab., Newport, OR. Western Ecology Div.
D. Young, R. Ozretich, H. Lee, S. Echols, and J. Frazier. 1999, 20p, EPA/600/A-00/02.
Prepared in cooperation with CH2M Hill, Inc., Corvallis, OR.
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This paper reports concentrations of DDT residues and dieldrin in surficial sediment, unfiltered near-surface water, intertidal mussels, and epibenthic and pelagic organisms collected from Richmond Harbor more than 25 years after removal of the predominant local source of these contaminants. High concentrations were measured in most of the samples collected. Despite the large concentration gradients away from the source zone, relatively little variability in the tissue/water bioconcentration factors for the mussel, a benthic Gobid fish, and the pelagic shiner surfperch was observed. This indicates that these organisms are potentially useful bioindicators of organochlorine contamination in estuarine ecosystems.

Keywords: "San Francisco Bay, "Pesticide residues, "DDT, "Dieldrin, "Environmental persistence,

Organochlorine insecticides, Industry plants, Ecological concentration, Bioaccumulation, Bottom sediments, Surface waters, Mussels, Benthos, Bioindicators, Indicator species, Sampling, Marine ecosystems, Richmond Harbor, West Central Region(California), Pacific Coast(California).

PB2000-102928REB PC A03/MF A01
Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab. **Control Technology for Coal-fired Boilers: Applications to China.** Rept. for Oct 98-Jul 99. Southern Research Inst., Birmingham, AL.
C. B. Sedman, H. Ban, and J. P. Gooch. 1999, 20p, EPA/600/A-00/003.
Presented at the International Coal Conference (4th), Beijing, China, August 16-20, 1999. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab.
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Due to higher capital costs, retrofitting of older and smaller facilities has been avoided by either ceasing operations or switching to more expensive, but cleaner, fuels. This paper examines new multi-pollutant technologies and improvements to old technologies that may allow China and other rapidly developing nations to mitigate the high cost of retrofits and still achieve cleaner air. A program is outlined to jointly investigate some of these technologies for application to China.

Keywords: "Air pollution control equipment, "Boilers, "China, Fossil fuel power plants, Coal, Emissions, Combustion products, Particulates, Toxic substances, Sulfur oxides, Nitrogen oxides, Carbon monoxide, Gases, Acidity, Scrubbers, Filters, Sorbent injection processes, Combined SOx/NOx processes.

PB2000-102942REB PC A04/MF A01
National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development. **Supercritical Extraction/Liquid-Phase Oxidation of Wastes.** Final rept. 29 Sep 94-31 May 98. Institute of Gas Technology, Des Plaines, IL.
M. C. Mensinger, A. Rehmar, and A. Goyal. Dec 1999, 42p, EPA/600/R-99/112.
Grant EPA-R-822701
Sponsored by National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development.
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During the experimental program, IGT conducted a series of laboratory-scale supercritical CO extraction tests to evaluate the effects of CO flow rate, temperature, and the addition of a modifier on the extraction of polynuclear aromatic hydrocarbons (PAHs) from soil. The laboratory-scale tests were conducted with supercritical CO in once-through mode. The bench-scale tests were conducted in CO recirculation mode with activated carbon absorption of the PAHs. Overall, the results of these tests show that the extent of PAH extraction from soil increases with temperature to a maximum at about 65 deg. At temperatures above 65 deg. the extent of PAH extraction from soil increases with temperature to a maximum about 65 deg. the extent of PAH extraction decreases. In PAH absorption tests with activated carbon, the results showed that lower, rather than higher, temperatures of the activated carbon increased the capture of PAHs from supercritical CO. A temperature of about 45 deg. showed that a concentration of three percent yielded the highest PAH extractions in the range of methanol concentrations, up to 10 percent in CO.

Keywords: "Liquid phases, "Oxidation, "Supercritical gas extraction, "Carbon dioxide, "Soil treatment, "Waste treatment, Hazardous wastes, Soil contamination, Land pollution control, Polycyclic aromatic hydrocarbons, Activated carbon treatment, Flow rates, Adsorption, Methanol, Temperature effects, IGT(Institute of Gas Technology).

EPA PUBLICATIONS BIBLIOGRAPHY

PB2000-102943REB PC A02/MF A01
Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab.

Energy Production and Pollution Prevention at Sewage Treatment Plants Using Fuel Cell Power Plants. Rept. for Jul 98-Jun 99.

ONSI Corp., South Windsor, CT.

R. J. Spiegel, and J. L. Preston. 1999, 8p, EPA/600/A-99/097.

Contract EPA-68-02-0186

Presented at the International Fuel Cell Conference (3rd), Nagoya, Japan, November 30-December 3, 1999. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab.

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The paper discusses energy production and pollution prevention at sewage treatment plants using fuel cell power plants. Anaerobic digester gas (ADG) is produced at waste water treatment plants during the anaerobic treatment of sewage to reduce solids. Fuel cells are an emerging technology to produce electricity and clean heat. The electricity produced can either be used by the waste water plant or sold to the electrical grid, while the heat is used by the waste water plant or sold to the electrical grid, while the heat is used to aid the anaerobic process. EPA, in conjunction with ONSI, recently utilized a 200-kW phosphoric acid fuel cell power plant to operate on ADG at a sewage treatment plant in Yonkers, NY.

Keywords: *Sewage treatment plants, *Fuel cells, *Resource recovery facilities, Gas recovery, Methane, Carbon dioxide, Nitrogen, Hydrogen sulfide, Chlorides, Anaerobic processes, Sludge digestion, Air pollution abatement, Phosphoric acids, Energy recovery, Electric power plants, Refuse-derived fuels, Waste water treatment, Pollution prevention.

PB2000-102944REB PC A04/MF A01
Going against the Current: Expanding the Inland Aquatic Monitoring Culture of Federal and State Agencies.

National Health and Environmental Effects Research Lab., Corvallis, OR. Western Ecology Div.

A. R. Olsen. Oct 1999, 47p, EPA/600/A-99/096.

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The author's interest concerns the design of lake and stream monitoring programs implemented by federal and state agencies in response to the Clean Water Act. Past, and most current, monitoring designs select sites using judgement criteria. Such designs provide data for assessing impacts of point source discharges. The Clean Water Act also requires a national assessment of all waters within the United States. The U.S. Geological Survey and the U.S. EPA initiated two independent programs: the National Water Quality Assessment Program (NAWQA) and the Environmental Monitoring and Assessment Program (EMAP). These programs use two different scientific approaches for monitoring. In addition, states have competing monitoring requirement. When the academic community's scientific research perspective is added, the result is a natural adversity among the groups. The paper discusses the underlying cultural conflicts associated with monitoring and present mechanisms that have been used to expand the culture, especially with states.

Keywords: *Environmental monitoring, *Government programs, *Water quality management, *Surveys, Federal agencies, State agencies, US GS, US EPA, Inter-agency coordination, Intergovernmental relations, Sampling, Lakes, Streams, Clean Water Act, Probability, Requirements, Social factors, Environmental Monitoring and Assessment Program, NAWQA(National Water Quality Assessment), National Water Quality Assessment Program.

PB2000-102945REB PC A03/MF A01
Managing Indoor Air Quality in the USA. Proceedings of the International Symposium on Clean Technology and Management for Indoor Air. Held in Seoul, Korea on November 11, 1999.

Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.

W. G. Tucker. 2000, 12p, EPA/600/A-99/095.

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The paper gives an overview of managing indoor air quality (IAQ) in the U.S. IAQ is managed through various governmental regulations on products that might affect IAQ; isolated governmental regulations on specific pollutants; guidelines in voluntary consensus standards that are prepared largely by private-sector groups and that may influence building codes; self-regulation by product manufacturers who are concerned about the role their products have on IAQ and who want to prevent adverse marketplace forces; and public information documents prepared by both governmental bodies and public interest groups. Examples of each of these activities are presented.

Keywords: *United States, *Indoor air quality, *Air quality management, Buildings, Indoor air pollution, Air pollution control, Air pollution sources, Space HVAC systems, Regulations, Building codes, Air quality standards.

PB2000-102946REB PC A02/MF A01
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
Environmental Technology Verification for Indoor Air Products.

Research Triangle Inst., Research Triangle Park, NC. D. L. Franke, L. E. Sparks, and D. S. Ensor. 1999, 10p, EPA/600/A-99/094.

Grant EPA-R-822870

Presented at the NSF International Conference on Indoor Air Health (1st), Denver, CO., May 3-5, 1999. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.

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The paper discusses environmental technology verification (ETV) for indoor air products. RTI is establishing test protocols for products that fit into three categories: those that have reduced emissions because of pollution prevention efforts, those that control contamination, and those that provide instrumentation for indoor environment measurements. Stakeholder groups of industry, government, and other interested organizations provide input and review the protocols. Industry requested multiple test laboratories; therefore, RTI developed a laboratory proficiency program. The testing framework is available to private trade associations and testing laboratories as a basis for establishing their own programs. The initial programs looked at emissions from commercial furniture and contamination control efficiency from general ventilation air filters and electronic air cleaners.

Keywords: *Indoor air pollution, *Air pollution control equipment, *Air pollution abatement, Air filters, Measuring instruments, Electronic equipment, Furniture, Ventilation systems, Air cleaners, Performance evaluation, Testing, Measurement, Laboratories, Quality assurance, Environmental Technology Verification Program, Pollution prevention, RTI(Research Triangle Institute).

PB2000-102947REB PC A03/MF A01
Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab.
Prototype Tool for Evaluating the Cost and Effectiveness of Greenhouse Gas Mitigation Technologies.

Eastern Research Group, Inc., Morrisville, NC.

L. Beck, and C. E. Burklin. 1999, 16p, EPA/600/A-99/093.

Contract EPA-68-D7-0001

Presented at the Air and Waste Management Association Emissions Inventory Conference, Raleigh, NC.,

October 28, 1999. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab.

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The paper introduces the structure of a tool, being developed by the U.S. EPA's Office of Research and Development, that will be able to analyze the benefits of new technologies and strategies for controlling greenhouse gas (GHG) emissions. When completed, the tool will be able to evaluate future emissions of GHG and releases of co-pollutants from all sectors of anthropogenic activity. It will also be able to estimate the cost of the choices. Results will be computed from technology and strategy choices selected by the model's user. The design will be able to facilitate the review of all assumptions and functions. It also will allow modifications to these structures to meet individual researcher's needs. The paper also summarizes the tool's capabilities and limitations, and provides information on the availability of the tool to researchers.

Keywords: *Air pollution control, *Greenhouse gases, *Cost effectiveness, Air pollution sources, Emissions, Greenhouse effect, Standards compliance, Air pollution economics, Economic impact, Cost benefit analysis, Software tools, Decision support systems, Regulatory impact analysis.

PB2000-102948REB PC A02/MF A01
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
Source Characterization of Consumer Aerosol Products.

Georgia Tech Research Inst., Atlanta.

C. W. Bayer, R. A. Browner, and Z. S. Ho. 1999, 10p, EPA/600/A-99/092.

Grant EPA-R-822007

Portions of this document are not fully legible. Presented at Indoor Air '96 International Conference on Indoor Air Quality and Climate (7th), Nagoya, Japan, July 21-26, 1996. See also PB98-155096. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.

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The paper discusses source characterization of consumer aerosol products. Under a U.S. EPA cooperative agreement, an Aerosol Mass Spectral Interface has been developed that will characterize the particulate and gaseous phases of a consumer aerosol product. The interface uses velocity differences between particle sizes to determine aerosol particle sizes, a series of skimmers, and particle beams to focus the aerosol for mass spectral analysis. When the interface is used in conjunction with a liquid chromatograph (LC)/mass spectrometer (MS) or LC/MS/MS system, it is possible to chemically characterize a consumer aerosol product.

Keywords: *Consumer products, *Aerosols, *Air pollution sources, *Chemical composition, Gases, Particulates, Particle size, Mass spectra, Spectral analysis, Chemical analysis, Particle beams, Skimmers.

PB2000-102949REB PC A02/MF A01
Environmental Protection Agency, Research Triangle Park, NC. National Exposure Research Lab.

Multi-Stream Model for Vertical Mixing of a Passive Tracer in the Convective Boundary Layer.

North Carolina State Univ. at Raleigh. Dept. of Marine, Earth and Atmospheric Sciences.

J. Han, and D. W. Byun. 1999, 10p, EPA/600/A-99/091.

Prepared in cooperation with National Oceanic and Atmospheric Administration, Research Triangle Park, NC. Atmospheric Sciences Modeling Div. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. National Exposure Research Lab.

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We study a multi-stream model (MSM) for vertical mixing of a passive tracer in the convective boundary layer, in which the tracer is advected by many vertical streams with different probabilities and diffused by small scale turbulence. We test the MSM algorithm for investigating the effects of inhomogeneous mixing and vertical transport of multiple pollutants at different source heights in a three-dimensional air quality model. All input parameters in the MSM such as the probability density function and the mean updraft and downdraft are prescribed from large-eddy simulation (LES) data and the mixed-layer similarity theory. Applicability of the MSM is tested against the LES results for both near surface and elevated tracer sources. Results from the MSM compare well with those from LES for the overall temporal behavior of concentration distributions. However, a somewhat poor agreement between the MSM and LES is seen in the magnitude of the concentrations at the surface and in the entrainment zone. It suggests that a further improvement of the MSM is needed to account for the frictional effects at the surface and the diffusion by small scale turbulence in the entrainment zone.

Keywords: "Three-dimensional models, "Convective flow, "Boundary layer flow, "Vertical air currents, "Tracer techniques, Mixing height, Convection currents, Atmospheric turbulence, Ecological concentration, Environmental transport, Large eddy simulation, Algorithms, Probability density functions.

PB2000-102950REB PC A03/MF A01
National Risk Management Research Lab., Ada, OK. Subsurface Protection and Remediation Div.
Uncertainty in Leaching Potential of Nonpoint Source Pollutants with Application to a GIS. ManTech Environmental Technology, Inc., Ada, OK. M. Hantush, Z. Zhang, M. A. Marino, and E. Hoque. 1999, 22p, EPA/600/A-99/090.
Contract EPA-68-C-98-138
Prepared in cooperation with California Univ., Davis. Sponsored by National Risk Management Research Lab., Ada, OK. Subsurface Protection and Remediation Div.
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This paper presents a stochastic framework for the assessment of groundwater pollutants potential of nonpoint source pesticides. A conceptual relationship is presented that relates seasonally averaged groundwater recharge to soil properties and depths to the water table. The analytical relationship shows a linear association with the soil saturated hydraulic conductivity, and predicts less recharge for shallower water tables. The stochastic framework utilizes first-order approximations of the mean and variance of each of the recharge and the residual mass emissions in the soil. Soil and chemical properties and related environmental factors, which affect the fate and transport of pesticides, and the depth to the water table are modeled as random variables. The environment-fate models are integrated with a GIS, and the stochastic framework is applied to assess potential nonpoint-source vulnerability of shallow groundwater to the pesticide dicamba in Mid-Atlantic coastal plain agricultural watersheds. It is shown that recharge estimates on the basis of the SCS abstraction method resulted in lower expected dicamba concentrations in groundwater, than when leaching is based on the conceptual model. In the analysis, the first-order estimates of the variance of dicamba mass emissions and estimated groundwater concentrations, were of order of magnitude of their respective means and greater. While some of the mean groundwater concentrations showed significant residual levels of dicamba, these values however should be viewed with greater uncertainty. Given the expected uncertainties in the input data and model errors, regulatory decisions and environmental land-use planning should take into account estimates of the uncertainties (variances) associated with predictions of groundwater vulnerabilities.

Keywords: "Nonpoint sources, "Water pollution sources, "Pesticides, "Leaching, Groundwater recharge, Water table, Soil properties, Hydraulic conductivity, Environmental transport, Root zone, Soil-water-plant relationships, Soil water movement, Emissions, Biochemistry, Degradation, Chemical properties, Agricultural watersheds, Uncertainty analysis, Statistical

analysis, Geographic information systems, Environmental fate.

PB2000-102956REB PC A04/MF A01
TRIM: Total Risk Integrated Methodology. TRIM.Expo Technical Support Document. Draft rept. Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. Nov 1999, 32p, EPA/453/D-99/001.
See also PB2000-102957, PB2000-102958 and PB2000-102959.
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This TSD describes the development of TRIM Expo, detailing work completed to date toward developing the first TRIM Expo prototypes. More specifically, the report addresses the following areas: OAQPS modeling needs and the intended goals for TRIM; Design of the TRIM modeling system; TRIM Expo's relation to the TRIM modeling system; Purpose and ongoing development of TRIM.Expo; Conceptual framework of TRIM Expo, in the context of the general approach to exposure assessment and modeling; Approach used in TRIM Expo for calculating inhalation and ingestion exposures; Comparative overview of existing exposure models and modeling approaches, addressing the strengths and limitations of some of the more commonly used exposure models; Plans for developing and evaluating the TRIM Expo prototypes; Glossary of terms and definitions; and listing of examples of input parameters for TRIM Expo.

Keywords: "Environmental exposure pathway, "Risk assessment, "Health hazards, "Public health, Dose-response relationships, Inhalation, Ingestion(Biology), Food consumption, Indoor air quality, Ambient air quality, Ecological concentration, Clean Air Act, Algorithms, Mathematical models, Computerized simulation, "TRIM.Expo(TRIM Exposure Event Module), "TRIM Exposure Event Module, "Environmental fate, TRIM(Total Risk Integrated Methodology), Hazardous air pollutants, TSD(Technical Support Document), OAQPS(Office of Air Quality Planning and Standards).

PB2000-102957REB PC A09/MF A02
TRIM: Total Risk Integrated Methodology. TRIM.FaTE: Technical Support Document. Volume 1. Description of Module. External Review Draft. Draft rept. Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. Nov 1999, 172p, EPA/453/D-99/002A.
See also PB2000-102956, PB2000-102958 and PB2000-102959.
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The first volume provides a description of the terminology, model framework, and functionality of TRIM.FaTE. Specifically, Chapter 2 provides an overview of the development and features of TRIM.FaTE, Chapters 3 and 4 discuss the TRIM.FaTE terminology and conceptual design, Chapter 5 provides a general description of how the conceptual design is implemented in TRIM.FaTE, and Chapter 6 explains the treatment of uncertainty and variability in TRIM.FaTE.

Keywords: "Risk assessment, "Environmental transport, "Public health, "Health hazards, Environmental exposure, Air pollution effects(Humans), Mass balance, Variability, Uncertainty analysis, Sensitivity analysis, Computerized simulation, Mathematical models, Design, "TRIM.FaTE(TRIM Environmental Fate Transport and Ecological Exposure Module), "TRIM.FaTE module, "Environmental fate, TRIM(Total Risk Integrated Methodology).

PB2000-102958REB PC A09/MF A02
TRIM: Total Risk Integrated Methodology. TRIM.FaTE: Technical Support Document. Volume 2. Description of Chemical Transport and Transformation Algorithms. External Review Draft. Draft rept. Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. Nov 1999, 168p, EPA/453/D-99/002B.
See also PB2000-102956, PB2000-102957 and PB2000-102959.
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This volume presents the algorithms used to describe the transport and transformation of chemicals in the TRIM.FaTE module. These algorithms are used to estimate the physical and chemical processes that drive chemical transport and transformation in the environment. Chapter 2 presents a general description of how each of the different transport and transformation processes are modeled in TRIM.FaTE. Chapters 3 through 6 present the abiotic algorithms for air (Chapter 3), surface water and sediment (Chapter 4), soil (Chapter 5), and ground water (Chapter 6). Chapter 7 presents the algorithms used to describe transport of chemical mass between biotic compartment types and between biotic and abiotic compartment types. While Chapters 2 through 7 focus on the general algorithms used in TRIM.FaTE, Appendix A presents the chemical-specific algorithms for mercury and PAHs.

Keywords: "Environmental transport, "Risk assessment, "Algorithms, "Ecosystems, Environmental exposure, Health hazards, Public health, Air pollution, Surface waters, Ground water, Water pollution, Sediments, Soil contamination, Land pollution, Environmental impacts, Computerized simulation, Mathematical models, Biokinetic models, Mercury(Metal), Polycyclic aromatic hydrocarbons, "TRIM.FaTE(TRIM Environmental Fate Transport and Ecological Exposure Module), "TRIM.FaTE module, "Environmental fate, TRIM(Total Risk Integrated Methodology), Chemical transport.

PB2000-102959REB PC A09/MF A02
TRIM: Total Risk Integrated Methodology. Status Report. Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. Nov 1999, 156p, EPA/453/R-99/010.
See also PB2000-102956, PB2000-102957 and PB2000-102958.
Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

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May 1998 Science Advisory Board Review and Agency Responses;
Treatment of Uncertainty and Variability in TRIM; Revisions and Additions to TRIM.FaTE;
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Evaluation Plan for TRIM.FaTE;
TRIM.FaTE Mercury Case Study;
Development of TRIM.Expo;
General Description and Conceptual Design of TRIM.Risk;
Development of TRIM Computer Framework;
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Appendices-Glossary;
Review of Methods for Conducting Uncertainty Analyses;
Input Values Being Developed for TRIM.FaTE Mercury Case Study;
and Summary of Available Monitoring Data for TRIM.FaTE Mercury Case Study.

Keywords: "Environmental transport, "Environmental exposure pathway, "Risk assessment, Ecological concentration, Environmental impacts, Pollutants, Health hazards, Public health, Dose-response relationships, Mass balance, Uncertainty analysis, Variability, Mathematical models, Computerized simulation, Design, Algorithms, "TRIM(Total Risk Integrated Methodology), "Total Risk Integrated Methodology, TRIM.Expo(TRIM Exposure Event Module), TRIM.FaTE(TRIM Environ-

EPA PUBLICATIONS BIBLIOGRAPHY

mental Fate Transport and Ecological Exposure Module), TRIM.Risk (TRIM Risk Characterization Module), Environmental fate.

PB2000-102971REB PC A03/MF A01
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
Environmental Control of Toxic Metal Air Emissions from the Combustion of Coal and Wastes.
Arizona Univ., Tucson. Dept. of Chemical and Environmental Engineering.
J. O. L. Wendt, S. B. Davis, T. K. Gale, W. S. Seames, and W. P. Linak. Jan 2000, 18p, EPA/600/A-00/001.
Grants EPA-R-826317, EPA-R-825389-01
Presented at a symposium on Energy engineering in the 21st Century, Hong Kong, January 9-13, 2000. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
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Toxic metals, such as arsenic, selenium, mercury, chromium, lead, and cadmium, are present in coals and in many municipal and industrial wastes. This paper is concerned with the partitioning of these metals during combustion, and with the mitigation of their effect on the environment using high temperature sorbents. The partitioning of arsenic and selenium during coal combustion in a 17 kW laboratory down-fired furnace is discussed, and appropriate mechanisms identified. Second, the speciation of mercury and chromium during combustion is addressed, through special experiments on an 82 kW refractory-lined combustor. Third, experimental results on the sorption of individual and multiple metals on sorbents are presented. These sorbents were kaolinite and lime, and were injected directly into flue gas containing lead and cadmium, which had vaporized in the main flame. Results suggest that toxic metals from coal and waste combustion can interact with lime and kaolinite sorbents and that, for some multiple metal mixtures, designer sorbents containing calcium, aluminum, and silicon might be useful to capture them and render them environmentally benign.

Keywords: *Air pollution control, *Metals, *Toxic substances, *Emissions, Combustion products, Municipal wastes, Industrial wastes, Incinerators, Flue gases, Coal, Incineration, Combustion efficiency, Separation, Waste treatment, Sorbents, Kaolinite, Lime, Calcium, Aluminum, Silicon.

PB2000-102972REB PC A03/MF A01
National Health and Environmental Effects Research Lab., Gulf Breeze, LA. Gulf Ecology Div.
Assessing Contaminant Sensitivity of Endangered and Threatened Species: Effluent Toxicity Tests.
Geological Survey, Columbia, MO. Biological Resources Div.
F. J. Dwyer, D. K. Hardesty, C. E. Henke, D. R. Mount, C. M. Bridges, C. G. Ingersoll, and D. W. Whites. Sep 1999, 18p, EPA/600/R-99/099.
See also PB96-141452. Sponsored by National Health and Environmental Effects Research Lab., Gulf Breeze, LA. Gulf Ecology Div.
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Toxicity tests using standard effluent test procedures were conducted with ceriodaphnia dubia and fathead minnows and four endangered fish species: bonytail chub (*Gila elegans*), Colorado squawfish (*Ptychocheilus lucias*), razorback sucker (*Xyrauchen texanus*) and Gila topminnow (*Poeciliopsis occidentalis*). We conducted 7-d survival and growth studies with embryo-larval fathead minnows and analogous exposures using the listed species. Survival and reproduction were also determined with *C. dubia*. Tests were conducted with: (1) carbaryl; (2) ammonia; and (3) a mixture of carbaryl copper, 4-nonylphenol, pentachlorophenol, and permethrin. This study was conducted with fish species that have not been typically tested so factors such as handling procedures, optimum feeding rates, optimum test temperature, expected test to test variation and expected survival or growth have not been previously documented, and

therefore results of this study should be interpreted cautiously.

Keywords: *Endangered species, *Chemical effluents, *Aquatic animals, *Toxicity, *Test methods, Fish, Water pollution effects (Animals), Survival, Growth rates, Risk assessment, Bioassay, Exposure, Bioavailability, Sensitivity, Aquatic ecosystems, Ammonia, Carbaryl, Copper, Pentachlorophenol.

PB2000-102973REB PC A03/MF A01
Recent Advances in the Development and Use of Physiologically Based Toxicokinetic Models for Fish.
National Health and Environmental Effects Research Lab., Duluth, MN. Mid-Continent Ecology Div. (Duluth) Library.
J. W. Nichols. Aug 1998, 18p, EPA/600/A-99/089.
Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

Existing physiologically based toxicokinetic (PBTK) models for fish accurately predict the uptake and disposition of waterborne organic chemicals of low to intermediate hydrophobicity. These models have been used to evaluate factors that control chemical kinetics in fish and to extrapolate data among fish species. The utility of these models is limited, however, by a lack of understanding of the factors that control chemical uptake from dietary sources and an inability to measure, describe, and predict metabolic biotransformation. In this chapter, critical questions related to dietary uptake and metabolic biotransformation are identified and discussed. Research with fish that addresses some of these questions is presented. Guidance is also provided from modeling efforts with mammalian species. It is recommended that future research be directed towards developing a relatively simple gut sub-model description. In vitro methods for characterizing chemical biotransformation must be complemented by new techniques for measuring metabolism in the intact animal.

Keywords: *Fishes, *Toxicology, *Water pollution effects (Animals), Chemical kinetics, Models, Organic chemicals, Absorption, Elimination, Hydrophobicity, Metabolism, *Toxicokinetics.

PB2000-103000REB PC A06/MF A01
NATO Committee on the Challenges of Modern Society, Brussels (Belgium).
NATO/CCMS Pilot Study (Meeting): Evaluation of Demonstrated and Emerging Technologies for the Treatment of Contaminated Land and Groundwater (Phase 3). 1999 Special Session, Monitored Natural Attenuation. Held in Angers, France on May 9-14, 1999.
Environmental Protection Agency, Washington, DC. Office of Research and Development.
F. V. Kremer, and A. Sinke. Oct 1999, 82p, EPA/542/R-99/008, NATO-236.
See also PB98-16193. Prepared in cooperation with Institute of Environmental Sciences TNO, Delft (Netherlands). Sponsored by NATO Committee on the Challenges of Modern Society, Brussels (Belgium).
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Contents: Introduction; General Overview; Guest Presentations: Monitored Natural Attenuation of a Municipal/Industrial Landfill Leachate Plume - Approaches, Issues, and Challenges in Applying Current U.S. EPA Guidance; Natural Attenuation in a Landfill Leachate Plume: The Grindsted Landfill Site; Monitored Natural Attenuation as a Remediation Tool for an Industrial Site; Monitored Natural Attenuation - Considerations of its Application on Contaminated Sites in Poland; Applications of Monitored Natural Attenuation in the United States; Promoting the Acceptance of Monitored Natural Attenuation; Natural Attenuation of the Federal Republic of Germany Background, Trends and Current Situation; Controlled Reactive Zones (CORZO): The Implementation of Innovative Plume Control Techniques for Groundwater Protection at Contaminated Sites; Field Evidence of Ineffective Natural Attenuation of Phenolic Compounds in a Sandstone Aquifer; Soil Cleanup Policy and Monitored Natural Attenuation

the Netherlands; Experiences with Obtaining Regulator Approval for Natural Attenuation at a Closed German Refinery. 1999 Meeting Attendees: Country Representatives.

Keywords: *Water pollution control, *Environmental monitoring, *In situ processing, *Hazardous materials, Ground water, Aquifers, Leachate, Plumes, Industrial wastes, Phenols, Hydrocarbons, Metals, Solvents, Case studies, United States, Germany, Netherlands, Meetings, *Natural attenuation.

PB2000-103121REB PC A13/MF A03
Environmental Protection Agency, Washington, DC.
Ozone-Forming Potential of Reformulated Gasoline. Final rept.
National Research Council, Washington, DC. Commission on Geosciences, Environment, and Resources. c1999, 274p, ISBN-0-309-06445-7.
Contract EPA-68-D6-0069
Sponsored by Environmental Protection Agency, Washington, DC.
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The Concept of Ozone-Forming Potential and Its Quantification;
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Reformulation of Gasoline;
The Effects of Reformulated Gasoline on Ozone and Its Precursors;
Using Ozone-Forming Potential to Evaluate the Relative Impacts of Reformulated Gasolines:
A Case Study;
Appendix A—Biographical Information on Committee Members;
Appendix B—Letter From Senator Richard G. Lugar;
Appendix C—Equation Set for the Complex Model—Phase II RFG;
and Appendix D—Data on Emissions From Light-Duty Motor Vehicles Using Fuels Selected From the Auto/Oil Air Quality Improvement Research Program and the California Ethanol Testing Program.

Keywords: *Automatic fuels, *Fuel additives, *Vehicle air pollution, *Ozone, *Photochemical reactions, Gasoline quality, Fuel mixtures, Air pollution sources, Ethanol, Exhaust emissions, Precursors, Carbon monoxide, Nitrogen oxides, Photochemistry, Chemical reactivity, Smog, Fuel composition, Air pollution abatement, Clean Air Act, *Reformulated gasoline, Volatile organic compounds, Oxygenates, MTBE (Methyl Tertiary Butyl Ether).

PB2000-103123REB PC A11/MF A03
Environmental Protection Agency, Washington, DC.
Research Priorities for Airborne Particulate Matter. 1. Immediate Priorities and a Long-Range Research Portfolio. Final rept.
National Research Council, Washington, DC. Board on Environmental Studies and Toxicology. c1998, 216p, ISBN-0-309-06094-X, LCCN-98-85286.
Contract EPA-68-C-98-003
See also PB99-104689. Sponsored by Environmental Protection Agency, Washington, DC.
Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

New National Ambient Air Quality Standards for airborne particles smaller than 2.5 micrometers, called PM 2.5, were issued by the U.S. Environmental Protection Agency (EPA) amidst scientific uncertainty and controversy. In response to a request from Congress, Research Priorities for Airborne Particulate Matter, the second of four books in a series, describes its plans for monitoring the progress of research. In addition, the research recommendations from the committee's first report are reviewed and updated, and two of the recommended research areas are substantially revised.

Keywords: *National Ambient Air Quality Standards, *Particulates, *Research projects, *Priorities, *Air pol-

EPA PUBLICATIONS BIBLIOGRAPHY

lution effects (Humans), Air pollution standards, Human health, Environmental exposure, Toxicity, Health hazards, Environmental policy, Cost estimation, Uncertainty analysis, Environmental research, PM-2.5, Hazardous air pollutants.

PB2000-103229REB PC A05/MF A01
National Risk Management Research Lab., Ada, OK. Subsurface Protection and Remediation Div.
BIOCHLOR: Natural Attenuation Decision Support System. User's Manual; Version 1.0.
Groundwater Services, Inc., Houston, TX.
C. E. Aziz, C. J. Newell, J. R. Gonzales, Y. Sun, P. Haas, and T. P. Clement. Jan 2000, 60p, EPA/600/R-00/008.

See also PB98-131642 and PB97-190631. Prepared in cooperation with Air Force Center for Environmental Excellence, Brooks AFB, TX. Technology Transfer Div. and Battelle Pacific Northwest Labs., Richland, WA. Sponsored by National Risk Management Research Lab., Ada, OK. Subsurface Protection and Remediation Div.

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BIOCHLOR is an easy-to-use screening model that simulates remediation by natural attenuation (RNA) of dissolved solvents at chlorinated solvent release sites. The software, programmed in the Microsoft (c) Excel spreadsheet environment and based on the Domenico analytical solute transport model, has the ability to simulate 1-D advection, 3-D dispersion, linear adsorption, and biotransformation via reductive dechlorination (the dominant biotransformation process at most chlorinated solvent sites). Reductive dechlorination is assumed to occur under anaerobic conditions and dissolved solvent degradation is assumed to follow a sequential first-order decay process. BIOCHLOR includes three different model types: (1) Solute transport without decay, (2) Solute transport with biotransformation modeled as a sequential first-order decay process, and (3) Solute transport with biotransformation modeled as a sequential first-order decay process with two different reaction zones (i.e., each zone has a different set of rate coefficient values).

Keywords: "Decision support systems, "Computer models, "User manuals (Computer programs), Environmental transport, Ground water, Remediation, Site characterization, Biodegradation, Screening, Path of pollutants, Solutes, Dispersion, Adsorption, Dechlorination, Water pollution control, Water treatment, "Natural attenuation, "BIOCHLOR computer program, Biotransformation, Chlorinated solvents, Environmental fate.

PB2000-103264REB PC A99/MF A06
Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics.
Consumer Labeling Initiative. Phase 2 Report.
Abt Associates, Inc., Cambridge, MA.
Oct 1999, 584p, EPA/742/R-99/004.
Contract EPA-68-W6-0021.

See also report for Phase 1, PB97-117774. Sponsored by Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics.
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The Consumer Labeling Initiative (CLI), a pilot program of the U.S. Environmental Protection Agency, was initiated in March 1996. Phase II of the CLI began in October 1996. Its activities were intended to include the following: perform in-depth quantitative research to establish a baseline of consumer understanding, attitudes, behavior, and satisfaction about product labels; carry out qualitative research on potential standardized information, particularly for ingredients, precautionary statements, and signal words; develop a multi-faceted, broad-based education campaign to (1) help consumers understand and use labels effectively, and (2) disseminate information about future labeling changes; find simpler, clearer ways to word label information about what to do in an accident or emergency involving household products; perform research about storage and disposal information, with the goal of improving la-

bels to address conflicting laws, ordinances, and community practices for waste recycling and disposal; and identify other information about ingredients that consumers want and need on labels for pesticides and other products.

Keywords: "Consumer products, "Labels, Household goods, Cleaners, Disinfectants, Insecticides, Pesticides, Labeling, Ingredients, Storage, Disposal, Utilization, Information dissemination, Research projects, Education, Comprehension, Hazards, Safety, First aid, Behavior, Risk assessment, Surveys, Quantitative analysis, Qualitative analysis, Pollution prevention, Use patterns.

PB2000-103281REB PC A02/MF A01
Biosensor Technology for Environmental Measurement. Book chapter.
Environmental Protection Agency, Las Vegas, NV. Characterization Research Div.
K. R. Rogers. 1999, 8p, CRD-LV-97-041, EPA/600/A-99/030.

Pub. in Encyclopedia of Environmental Analysis and Remediation.

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This chapter outlines some of the most commonly reported biosensors for potential environmental applications as well as discussing some of the relevant environmental issues and how they are related to biosensor development.

Keywords: "Technology innovation, "Environmental monitoring, "Pollution detection, Chemical reactions, Biological detection, Transducers, Biochemistry, Measurement, Pollution monitoring, Technology utilization, "Biosensors, Biological recognition, Biocatalysis, Molecular detection.

PB2000-103282REB PC A16/MF A03
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
FTIR Emissions Test at an Iron Foundry; Waupaca Foundry, Inc. Plant No. 5, Tel City, Indiana. Final test report.

Midwest Research Inst., Kansas City, MO.
Sep 1999, 336p, EPA/454/R-99/035.
Contracts EPA-68-D-98-027, EPA-68-W6-0048.
Portions of this document are not fully legible. See also PB99-163453. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

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The purpose of this testing program was to obtain emission data by using FTIR sampling at iron foundries, specifically on cupola emission control devices as well as pouring, cooling, and shake-out operations to support a national emission standard for hazardous air pollutants (NESHAP).

Keywords: "Iron and steel industry, "Foundries, "Air pollution sampling, "Fourier transform infrared spectroscopy, Cupolas, Foundry practice, Pouring, Melting, Exhaust emissions, Stack gages, Formaldehyde, Toluene, Baghouses, Inlets, Outlets, Chemical analysis, Air pollution control equipment, Data collection, Data analysis, "NESHAP (National Emission Standards for Hazardous Air Pollutants), "National Emission Standards for Hazardous Air Pollutants, Tell City (Indiana), MACT (Maximum Achievable Control Technology), Mold cooling line, Shake-out housing line.

PB2000-103320REB PC A04/MF A01
Hazardous Waste Generation and Management: 1995-1997: Summary of Reports to the Illinois Environmental Protection Agency.
Illinois State Environmental Protection Agency, Springfield. Bureau of Land.

Apr 1999, 50p, IEPA/BOL-99/001.
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(703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

These publications list Illinois facilities that generate, store, treat or dispose of hazardous waste. Each listing provides the facility's address, Illinois EPA and U.S. EPA identification numbers, and the types and quantities (in tons) of hazardous wastes generated or managed during the year. Facilities are arranged alphabetically by county and are presented in four sections: those that generate and ship off-site, those that stored hazardous wastes, those that managed hazardous waste on site of generation, and those that received and managed hazardous wastes generated elsewhere.

Keywords: "Illinois, "Waste management, "Hazardous wastes, Waste storage, Waste treatment, Waste disposal, Waste transfer stations, Waste processing plants, Facilities, Waste forms, Hazardous materials transportation, Counties, Listings, "Waste generation, Waste characterization.

PB2000-103427REB PC A03/MF A01
Guidelines and Application Package: Chesapeake Bay Gateways and Water Trails Network. 2000 Demonstration Project Grant Program.
Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.

28 Feb 2000, 26p.
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- Application Requirements;
- Demonstration Grant Questions;
- Final Grant Approval Process;
- Grants Administration and Reimbursement;
- Appendix A: Federal Grant Forms;
- and Appendix B: NEPA Compliance Form.

Keywords: "Demonstration programs, "Applications, "Grants, Administrative procedures, Requirements, Guidelines, Funds, Forms (Paper), Chesapeake Bay, Natural resources conservation, Environmental protection, Natural resources management, Restoration, "Chesapeake Bay Gateways and Water Trails Network, Middle Atlantic Region (United States), Chesapeake Bay Program.

PB2000-103430REB PC A03/MF A01
Draft Framework: Chesapeake Bay Gateways and Water Trails Network.
Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.

Feb 2000, 30p.
See also PB2000-103427.
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Contents:

- A Vision of the Network;
- Origin and Goals of the Initiative and Network;
- A Cohesive Focus for the Network:
- Its Basic Geography and Major Themes;
- The Types of Places in the Network;
- Support for the Network and Its Participants:
- Strategies, Coordination and Assistance;
- and Participation in the Network.

Keywords: "Natural resources management, "Program management, Natural resource conservation, Environmental protection, Restoration, Chesapeake Bay, Regional analysis, Geography, Sites, Program administration, Information centers, Coordination,

EPA PUBLICATIONS BIBLIOGRAPHY

*Chesapeake Bay Gateways and Water Trails Network, Middle Atlantic Region(United States), Chesapeake Bay Program.

PB2000-500037REB CD-ROM CP D04
Toxic Substances Control Act (TSCA) TSCATS (Test Submissions Database) Comprehensive Update (Raw Data File) (on CD-ROM). December 1999.

Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics. Dec 1999, 1 CD-ROM.

This product contains text only. Customers must provide their own search and retrieval software. Product no longer available on magnetic tape. Supersedes PB2000-500017, PB99-501736, PB99-500183, PB97-503239, PB97-502421, PB97-501324, PB96-502620, PB96-502091, and PB96-501242.

The datafile is on on CD-ROM disc. Data format: ASCII. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

TSCATS (Toxic Substances Control Act Test Submissions) is an online index to unpublished, nonconfidential studies covering chemical testing results and adverse effects of chemicals on health and ecological systems. The studies are submitted by U.S. industry to EPA under several sections of the Toxic Substances Control Act (TSCA). There are four types of documents in the database: Section 4 chemical testing results, Section 8(d) health and safety studies, Section 8(e) substantial risk of injury to health or the environment notices, and voluntary documents submitted to EPA known as a For Your Information (FYI) notice. TSCATS contains information that is pertinent to the risk assessment and hazard evaluation processes. The information can be used in conjunction with published material and is a valuable source along with or in the absence of published data. The data are used by federal and state agencies, researchers, toxicologists, risk assessors, the regulated industry, attorneys, trade and professional associations. TSCATS was developed to make ongoing and completed chemical testing studies available to the public and includes chemical exposure studies, epidemiology, environmental fate, monitoring, episodic incidents, such as spills and case reports. There are 81,000 studies on 6,700 unique chemical substances are contained in 23,000 documents. On average three or four individual studies are extracted from each document. Studies are indexed under three broad categories: health effects, ecological effects and environmental fate. Additional controlled vocabulary terms are assigned to describe the experimental protocol and test observations. A TSCATS record also includes: the chemical name, CAS (Chemical Abstracts Service) Registry Number, Section of TSCA, title, document number, microfiche number, submitting organization, and performing organization. A selected number of studies also have abstracts. Microfiche copies of the full-text documents of the unpublished reports referenced by TSCATS are directly available from NTIS. The titles of these 23,000 unpublished reports can be searched directly on the NTIS web site at www.ntis.gov/yellowbk/1nty834.htm.

Keywords: *Toxic Substances Control Act, *Chemical compounds, *Data file, Toxicity, Environmental effects, Health effects, Tests, Information dissemination, Data bases, Chemical industry, Industrial wastes, Chemical spills, Environmental health, Environmental policy, Risk assessment, Measurement, Monitoring, Hazardous materials, Health hazards, Ecosystems, Environmental exposure, Reagents, CD-ROM, Environmental fate, Trade wastes, Factory wastes.

PB2000-500042REB Diskette \$161.00
Toxic Substances Control Act (TSCA): ASCII Text Data January 2000. TSCA Chemical Substances Inventory: Revised Inventory Synonym and Preferred Name File (Raw Data File) (on Diskette or CD-ROM). Data file.

Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics. Feb 2000, 3 diskettes.

This product contains text only. Customers must provide their own search and retrieval software. Files are compressed. Also available on one CD-ROM. Supersedes PB99-501967, PB99-500670, PB97-503163, PB97-501431, PB98-500564, and PB98-502412. Y2K - not relevant.

The datafile is on three 3 1/2 inch DOS diskettes, 1.4M high density. File format: ASCII text. Order information for each format: (A) CD-ROM searchable database, SUB-5423, \$288; or (B) ASCII text file of raw data, 3 1/2 inch HD diskette or CD-ROM, PB2000-500042, \$161; or (C) Datafile on magnetic tape, PB2000-500043, \$454. Prices outside the U.S., Canada, and Mexico are double.

The TSCA Chemical Substance Inventory provides chemical identity information for the 64,048 non-confidential substances on the TSCA Master Inventory File. The datafile contains no TSCA Confidential Business Information. New versions of the TSCA Inventory are issued at approximately six month intervals. The data provided for each chemical substance include the CAS Registry Number, Preferred CA Index Name, molecular formula, and other appropriate information, such as valid chemical names reported by submitters. The entries are in ascending CAS Registry Number order.

Keywords: *Data file, *Chemical compounds, *Toxic Substances Control Act, Nomenclature, Molecular structure, Inventories, Diskettes, CD-ROM, *Chemical Substances Inventory, CAS Registry Number, Molecular formula.

PB2000-500043REB Mag Tape \$454.00
Toxic Substances Control Act (TSCA): ASCII or EBCDIC Data, January 2000. TSCA Chemical Substances Inventory: Revised Inventory Synonym and Preferred Name File (Raw Data File) (on Magnetic Tape). Data file.

Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics. Feb 2000, magnetic tapes.

Formats: Available in ASCII or EBCDIC character set, 6250 bpi tape, 3480 cartridge, or CD-ROM. Supersedes PB99-501959, PB97-503205, PB97-501456, PB98-500556, and PB98-502404. Y2K - not relevant.

Ordering information for each format: (A) CD-ROM searchable database, SUB-5423, \$288; or (B) ASCII text file of raw data, 3 1/2 inch HD diskette or CD-ROM, PB2000-500042, \$161; or (C) Datafile on magnetic tape, PB2000-500043, \$454. Prices outside the U.S., Canada, and Mexico are double.

The TSCA Chemical Substance Inventory provides chemical identity information for the 64,048 non-confidential substances on the TSCA Master Inventory File. The datafile contains no TSCA Confidential Business Information. New versions of the TSCA Inventory are issued at approximate six month intervals. The data provided for each chemical substance include the CAS Registry Number, Preferred CA Index Name, molecular formula, and other appropriate information, such as valid chemical names reported by submitters. The entries are in ascending CAS Registry Number order.

Keywords: *Data file, *Chemical compounds, *Toxic Substances Control Act, Nomenclature, Molecular structure, Inventories, Magnetic tapes, *Chemical Substances Inventory, CAS Registry Number, Molecular formula.

PB2000-500044REB CP D01
Toxic Substances Control Act (TSCA)-PMN File: ASCII Text Data January 2000. TSCA Chemical Substances Inventory: PMN Number to EPA Accession Number Link (Raw Data File) (on Diskette). Data file.

Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics. Feb 2000, 1 diskette.

This product contains text only. Customers must provide their own search and retrieval software. The Revised Inventory Synonym and Preferred Name File is also available. Supersedes PB99-501975, PB99-500662, PB97-503189, PB97-501449, PB98-500572, and PB98-502388. Y2K - not relevant.

The datafile is on one 3 1/2 inch DOS diskettes, 1.4M high density. File format: ASCII text. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

The PMN Number to EPA Accession Number Link Diskette provides a cross-reference of these numbers for commenced PMNs on the confidential portion of the TSCA Master Inventory File. Neither this cross-ref-

erence nor the additional information included is TSCA Confidential Business Information. Provided on the diskette for each confidential commenced PMN are the PMN Case Number, EPA Accession Number, Generic Name, and EPA special flags. The sequence of the file is in ascending PMN case Number order with 'P' case numbers sorted first, followed by 'Y' case numbers.

Keywords: *Data file, *Chemical compounds, *Toxic Substances Control Act, Nomenclature, Molecular structure, Inventories, Diskettes, *Chemical Substances Inventory, CAS Registry Number, Molecular formula, PMN(Premature Notification).

PB2000-963303REB PC A02/MF A01
Interim Final Evaluation of Facilities Currently or Previously Licensed NRC Sites under CERCLA. Directive.

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 17 Feb 2000, 10p, OSWER-9272.0-15P.

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This memorandum addresses the U.S. Environmental Protection Agency (EPA) evaluation of facilities previously or currently licensed by the Nuclear Regulatory Commission (NRC). EPA has increasingly received requests to either (1) conduct response actions under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) at previously or currently licensed facilities, or (2) make a determination if a past or proposed NRC decommissioning would meet CERCLA cleanup levels.

Keywords: *US EPA, *US NRC, *Nuclear facilities, *Regulations, Licensing, Decommissioning, Radiation protection, Radioactive contamination, Responsibility, Administrative procedures, Cleanup, CERCLA(Comprehensive Environmental Response Compensation and Liability Act), Comprehensive Environmental Response Compensation and Liability Act, National Oil and Hazardous Substances Pollution Contingency Plan, National Priorities List.

PB2000-963401REB PC A05/MF A01
Understanding Oil Spills and Oil Spill Response, December 1999.

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. Dec 1999, 52p, EPA 540-K-99-007, OSWER-9200.5-104A.

See also PB93-963409. Paper copy available as an ongoing subscription, credit card payment accepted. Single copies also available in paper copy or microfiche. Product reproduced from digital image.

Table of Contents:

- The Behavior and Effects of Oil Spills in Aquatic Environments;
- Mechanical Containment and Recovery of Oil Following a Spill;
- Alternative Countermeasures for Oil Spills;
- Shoreline Cleanup of Oil Spills;
- Wildlife and Oil Spills;
- Preparing for Oil Spills:
- Contingency Planning;
- Responding to Oil Spills:
- The National Response System;
- Response to Oil Spills;
- Glossary;
- and For Further Information.

Keywords: *Oil spills, *Fresh water, *Aquatic ecosystems, Vegetable oils, Petroleum products, Coastal waters, Coastal areas, Oil pollution control, Containment, Recovery, Shorelines, Wildlife, Contingency planning, Emergency preparedness, Cleanup, National Response System.

PB98-963223REB PC A08/MF A02
Close Out Procedures for national Priorities List Sites. Directive.

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. Jan 2000, 130p, EPA 540-R-98-016, OSWER-9320.2-09A-P.

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This guidance document describes the key principles and expectations, interspersed with 'best practices' based on program experience, that should be consulted at the time to Close Out Superfund's National Priorities List Sites. The Close Out Procedures for National Priorities List Sites are organized into five principal areas: Remedial Action Completion, Construction Completion, Site Completion, Site Deletion and Partial Deletion. The purpose of the guidance is to briefly summarize key elements of the various close out options for actions at sites.

Keywords: *US EPA, *Sites, Administrative procedures, Government policies, Project management, Remedial action, Construction, Inspection, Superfund, *National Priorities List, *Close-out procedures, *Project completion, Deletion, RCRA(Resource Conservation and Recovery Act).

PB98-963248REB PC A10/MF A03
Progress Toward Implementing Superfund: Fiscal Year 1995 Report to Congress.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 2000, 200p, EPA 540-R-98-033, OSWER-9200.2-35P. See also PB98-963249 and PB98-963250.
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As the Superfund program completed its fifteenth year, the Agency had begun work at over 95 percent of the 1,374 sites on the National Priorities List (NPL), and completed construction on 346 of them. EPA is pleased to submit this Report documenting the fiscal year's achievements.

Keywords: *Superfund, *Program administration, *Program management, *Hazardous materials, *Waste management, Remedial action, Waste disposal, Waste treatment, Pollution control, Law enforcement, Pollution regulations, Costs, Contract management, US EPA, State government, Local government, Sites, Citizen participation, Cleanup, Potentially responsible parties, National Priorities List, CERCLA(Comprehensive Environmental Response Compensation and Liability Act).

PB98-963249REB PC A10/MF A03
Progress Toward Implementing Superfund: Fiscal Year 1996 Report to Congress.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 2000, 196p, EPA 540-R-98-034, OSWER-9200.2-36P. See also PB98-963248 and PB98-963250.
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As the Superfund program completed its sixteenth year, the Agency had begun work at over 97 percent of the 1,387 sites on the National Priorities List (NPL), and completed construction on 410 of them.

Keywords: *Superfund, *Program administration, *Program management, *Hazardous materials, *Waste management, Remedial action, Waste disposal, Waste treatment, Pollution control, Law enforcement, Pollution regulations, Costs, Contract management, US EPA, State government, Local government, Sites, Citizen participation, Cleanup, Potentially responsible parties, National Priorities List, CERCLA(Comprehensive Environmental Response Compensation and Liability Act).

PB98-963250REB PC A10/MF A02
Progress Toward Implementing Superfund: Fiscal Year 1997 Report to Congress.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 2000, 182p, EPA 540-R-98-035, OSWER-9200.2-37P. See also PB98-963249 and PB98-963248.
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The U.S. Environmental Protection Agency (EPA) continued its progress in protecting public health, welfare, and the environment through the Superfund program in fiscal year 1997 (FY97). As the Superfund program

completed its seventeenth year, the Agency had begun work at over 98 percent of the 1,045 sites on the National Priorities List (NPL), and completed construction on 498 of them. EPA is pleased to submit this Report documenting the fiscal year's achievements.

Keywords: *Superfund, *Program administration, *Program management, *Hazardous materials, *Waste management, Remedial action, Waste disposal, Waste treatment, Pollution control, Law enforcement, Pollution regulations, Costs, Contract management, US EPA, State government, Local government, Sites, Citizen participation, Cleanup, Potentially responsible parties, National Priorities List, CERCLA(Comprehensive Environmental Response Compensation and Liability Act).

PB99-132011REB PC A04/MF A01
Method OIA-1677: Available Cyanide by Flow Injection, Ligand Exchange, and Amperometry. Final rept.
Environmental Protection Agency, Washington, DC. Office of Water.
M. Straka, E. Milosavljevic, and L. Solujic. Jan 2000, 34p, EPA/821/R-99/013.
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This method is for determination of available cyanide in water and wastewater by flow injection, ligand exchange, and amperometric detection. Cyanide ion (CN^{sup -}), hydrogen cyanide (HCN(sub aq)), and the cyano-complexes of zinc, copper, cadmium, mercury, nickel, and silver may be determined by this method.

Keywords: *Cyanides, *Water pollution detection, *Quantitative chemical analysis, Flow injection analysis, Amperometry, Water analysis, Waste water, Hydrogen cyanide, Cyano compounds, Metal complexes, Low concentration, Water pollution sampling, Analytical methods, Laboratory procedures, Quality control, *EPA Method OIA-1677, Ligand exchange.

PB99-963101REB PC A08/MF A02
Superfund Record of Decision Amendment (EPA Region 1): New Bedford Harbor Site, Hotspot Operable Unit, New Bedford, MD., April 27, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 140p, EPA 541-R99-001.
See also PB98-963709.
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This decision document amends the selected remedial action for the New Bedford Harbor Superfund Site, Hot Spot Operable Unit located in New Bedford, Massachusetts, as outlined in the April 6, 1990 Record of Decision. The 1990 ROD called for dredging contaminated sediments from the identified hot spot areas with PCB concentrations of 4,000 ppm or greater, transporting the dredged sediments to a shoreline Confined Disposal Facility (CDF), treatment of the supernatant, dewatering the sediments and destruction of the PCBs in an on-site incinerator. The activities associated with dredging the hot spot areas and treating the supernatant have been completed. This decision document selects off-site landfilling instead of on-site incineration.

Keywords: *Superfund, *Hazardous materials, *Waste management, Harbors, Polychlorinated biphenyls, Bottom sediments, Dredging, Dewatering, Waste disposal, Ambient air quality, Massachusetts, *Record of Decision Amendment, *First Remedial Action, New Bedford(Massachusetts), Bristol County(Massachusetts), Cleanup operations.

PB99-963102REB PC A03/MF A01
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): NL Industries Site, Pedricktown, N.J., June 21, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.

1999, 12p, EPA 541-R99-002.
See also PB92-963813 and PB94-963805.
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The purpose of this Explanation of Significant Difference (ESD) is to provide an explanation of a change the United States Environmental Protection Agency (EPA) has made to a portion of the remedy selected in the July 8, 1994 Record of Decision (ROD) for the NL Industries, Inc. Superfund Site (Site). The ROD-specified remedy calls for the excavation of soil and sediment containing lead at levels exceeding 500 parts per million (ppm), on-site solidification/stabilization of those soils determined to be hazardous, and disposal of all excavated soil in a landfill to be constructed at the Site. However, as a result of newly obtained information, EPA believes an alternative involving the disposal of the excavated soil and sediment in a landfill located off-site to be cost-effective, equally protective, and more quickly implemented than disposal on-site.

Keywords: *Superfund, *Hazardous materials, *Land pollution control, Lead(Metal), Soil contamination, Sediments, Excavation, Waste disposal, Remedial action, New Jersey, *ESD(Explanation of Significant Difference), *Explanation of Significant Difference, Record of Decision, Pedricktown(New Jersey), Salem County(New Jersey), Cleanup operations.

PB99-963103REB PC A02/MF A01
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Chem-Solv Inc. Site, Cheswold, DE., June 18, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 8p, EPA 541-R99-003.
See also PB93-963906.
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A Record of Decision (ROD) for the Chem-Solv, Inc. Superfund Site (Site) was signed on March 29, 1992. The ROD for the Site requires remediation of ground water contaminated with volatile organic compounds (VOCs) and manganese and addresses drinking water sources potentially affected by the contamination. The modified remedy which will be implemented as a result of this ESD will not require the placement of a notice in the property records of properties located within the GWMZ that such property is located within the GWMZ.

Keywords: *Superfund, *Hazardous materials, *Water pollution control, Manganese, Ground water, Extraction, Water supply, Water pollution monitoring, Restrictions, Delaware, *ESD(Explanation of Significant Difference), *Explanation of Significant Difference, Record of Decision, First Remedial Action, Cheswold(Delaware), Kent County(Delaware), Volatile organic compounds, Cleanup operations, GWMZ(Ground Water Management Zone).

PB99-963104REB PC A03/MF A01
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Whitmoyer Laboratories Site, Myerstown, PA., November 16, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 14p, EPA 541-R99-004.
See also PB92-963912.
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The Record of Decision (ROD) for the Whitmoyer Laboratories Superfund Site (Site) for Operable Unit Two (OU-2) was issued on December 17, 1990 and a ROD for Operable Unit Three (OU-3) was issued on December 31, 1990. New information became available following the issuance of the RODs for OU-2 and OU-3 which gave rise to the need for an ESD. Specific information acquired during the Remedial Design includes: (1) a detailed delineation of the lagoons which determined that approximately 6,890 cubic yards (cy) of hazardous lagoon wastes require treatment prior to disposal in an off-Site landfill; (2) the completion of bench-scale treatability tests which demonstrated the ability to successfully treat hazardous soils and lagoon

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wastes off-Site; and (3) the passage of the Phase IV Land Disposal Restrictions which provides an alternate treatment criterion for soils.

Keywords: *Superfund, *Hazardous materials, *Land pollution control, Arsenic, Debris, Lagoons, Soil contamination, Excavation, Waste treatment, Soil treatment, Waste disposal, Pennsylvania, *ESD(Explanation of Significant Difference), *Explanation of Significant Difference, Record of Decision, Second Remedial Action, Third Remedial Action, Myerstown(Pennsylvania), Lebanon County(Pennsylvania), Volatile organic compounds, Cleanup operations.

PB99-963117REB PC A03/MF A01
Superfund Record of Decision Amendment (EPA Region 7): Quality Plating Site, Sikeston, MO., September 28, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 28p, EPA 541-R99-074.
See also PB95-964301.
Paper copy available as an ongoing subscription, credit card payment accepted. Single copies also available in paper copy or microfiche. Product reproduced from digital image.

This decision document amends the Record of Decision (ROD) and presents the new selected remedial action for the Quality Plating site north of Sikeston, Missouri. The response action selected in this ROD Amendment is the final remedy for the site and addresses the contamination at the site not addressed during the soil removal action. This response action involves reducing hexavalent chromium (the primary contaminant of concern) concentration in groundwater to below the preliminary remediation goal (PRG) for the site.

Keywords: *Superfund, *Hazardous materials, *Waste management, Ground water, Plumes, Water pollution monitoring, Restrictions, Site characterization, Remedial action, Missouri, *Record of Decision Amendment, Sikeston(Missouri), Scott County(Missouri), Hexavalent chromium, Natural attenuation, Cleanup operations.

PB99-963118REB PC A02/MF A01
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 4, Jacksonville, FL., July 12, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 10p, EPA 541-R99-089.
See also PB97-964019.
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The Navy has prepared an Explanation of Significant Differences (ESD) for Operable Unit (OU) 4, Rubble Disposal Area (Site 10) at Naval Air Station (NAS) Cecil Field, Jacksonville, Florida. The selected remedy for OU4 was No Further Action. Based on the reevaluation of soils data at OU4, arsenic was identified at concentrations in excess of the FDEP residential Soil Cleanup Target Level (SCTL) and the background 'High Cut' value in surface soil samples at NAS Cecil Field. The significant difference to the September 1997 ROD involves excavating the locations with the highest arsenic concentrations and replacing them with clean fill. After these actions have been completed, no further action would be required at OU4.

Keywords: *Superfund, *Hazardous materials, *Land pollution control, Naval air stations, Arsenic, Soil contamination, Excavation, Waste disposal, Backfills, Installation restoration, Remedial action, Florida, *ESD(Explanation of Significant Difference), *Explanation of Significant Difference, Record of Decision, Cecil Field Naval Air Station, Jacksonville(Florida), Duval County(Florida), Cleanup operations.

PB99-963119REB PC A02/MF A01
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 1, Pensacola, FL., September 23, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.

1999, 8p, EPA 541-R99-090.
See also PB98-964016.
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The U.S. Navy, as the lead agency, has prepared an Explanation of Significant Differences (ESD) for Site 1 (Operable Unit 1)—Inactive Sanitary Landfill, Naval Air Station Pensacola. The Navy, with concurrence from the United States Environmental Protection Agency (USEPA) and the Florida Department of Environmental Protection (FDEP), selected a remedy that called for discharging treated groundwater into a nearby wetland. The modification was necessary because the Navy's wastewater treatment system is better able to handle daily discharges of low chemical concentrations than an annual discharge of more concentrated chemicals. This change will also increase cost effectiveness while continuing to protect human health and the environment.

Keywords: *Superfund, *Hazardous materials, *Water pollution control, Naval air stations, Landfills, Paints, Polychlorinated biphenyls, Oil wastes, Asbestos, Pesticides, Ground water, Water treatment, Discharge(Water), Remedial action, Florida, *ESD(Explanation of Significant Difference), *Explanation of Significant Difference, Record of Decision, Pensacola Naval Air Station, Pensacola(Florida), Escambia County(Florida), Cleanup operations.

PB99-963120REB PC A03/MF A01
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): American Cyanamid Company Site, Bound Brook, N.J., November 30, 1998.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 2000, 20p, EPA 541-R99-096.
See also PB96-963820 and PB96-963821.
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The purpose of this explanation of Significant Difference (ESD) is to explain a modification to the remedy selected in the Record of Decision (ROD) dated 12 July 1996 for the American Cyanamid site located in Bridgewater Township, Somerset County, New Jersey. Recycling of the iron oxide material in Impoundments 15 and 16 was evaluated as a remedial alternative in the July 1996 ROD. The responsible party, American Home Products Corporation (AHP), has now identified a vendor which can recycle this iron oxide material. These circumstances gave rise to the need for this ESD.

Keywords: *Superfund, *Hazardous materials, *Waste management, Iron oxide, Waste recycling, Waste disposal, Remedial action, New Jersey, *ESD(Explanation of Significant Difference), *Explanation of Significant Difference, Record of Decision, Bound Brook(New Jersey), Bridgewater Township(New Jersey), Somerset County(New Jersey), Cleanup operations.

PB99-963121REB PC A12/MF A03
Superfund Record of Decision Amendment (EPA Region 2): G.E. Wiring Device Site, Juana Diaz, PR., July 1, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 246p, EPA 541-R99-097.
See also PB89-189518.
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This Record of Decision Amendment presents the United States Environmental Protection Agency's (EPA's) selection of a modification to the remedial action for the G.E. Wiring Devices Superfund Site. The original remedial action was selected in the Record of Decision issued by EPA on September 30, 1988. The modification to the selected remedy implements the off-site disposal of all excavated mercury-impacted materials in a Subtitle C (hazardous waste) landfill in the mainland United States without additional treatment, in place of the on-site hydrometallurgical treatment using the G.E. Mercury Extraction Process (GEMEP) system and subsequent backfill.

Keywords: *Superfund, *Hazardous materials, *Waste management, Mercury(Metal), Excavation, Waste disposal, Backfills, Puerto Rico, *Record of Decision Amendment, *First Remedial Action, Juana Diaz(Puerto Rico), Cleanup operations.

PB99-963122REB PC A04/MF A01
Superfund Record of Decision Amendment (EPA Region 2): Woodland Routes 72 Dump and 532 Dump Sites, Woodland Township, N.J., July 1, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 44p, EPA 541-R99-098.
See also PB91-921402.
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The selected remedy addresses the contaminated ground water at the Woodland Township Route 72 and Route 532 Sites. The major components of the selected remedy include the following: Ground water in the site disposal areas at both the Route 72 and Route 532 Sites will be remediated using an air sparging system to inject air into the saturated zone and strip away volatile and semi-volatile organic compounds dissolved in ground water and absorbed to the soil, a soil vapor extraction system to capture sparged vapors, and a vapor treatment system to treat the soil vapor extraction offgas; and The downgradient portion of the plumes at both sites will be allowed to naturally attenuate.

Keywords: *Superfund, *Hazardous materials, *Water pollution control, Ground water, Plumes, Water treatment, New Jersey, *Record of Decision Amendment, *First Remedial Action, Woodland Township(New Jersey), Burlington County(New Jersey), Volatile organic compounds, Semivolatile organic compounds, Natural attenuation, Cleanup operations.

PB99-963313REB PC A03/MF A01
Distribution of OSWER Radiation Risk Assessment Q and A's Final Guidance. Previously Licensed NRC Sites under CERCLA. Directive.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 17 Dec 1999, 24p, EPA 540-R-99-006, OSWER-9200.4-31P.
See also PB97-963210.
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The guidance provides answers to several common questions about radiation risk assessments at CERCLA sites. It should be especially useful to Remedial Project Managers (RPMs), On-Scene Coordinators (OSCs), and risk assessors.

Keywords: *Risk assessment, *Radioactive contamination, *Site characterization, Radiosotopes, Radioactive wastes, Superfund, Pollution control, Radioecological concentration, Maximum permissible exposure, Maximum permissible dose, Radiation protection, Government policies, *Cleanup operations, *CERCLA(Comprehensive Environmental Response Compensation and Liability Act), *Comprehensive Environmental Response Compensation and Liability Act.

PB99-963801REB PC A13/MF A03
Superfund Record of Decision (EPA Region 2): Welsbach and General Gas Mantle Contamination Site (Camden), Camden and Gloucester City, N.J., July 23, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 266p, EPA 541-R99-028.
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This Record of Decision (ROD) documents the U.S. Environmental Protection Agency's selection of a remedial action to address soil and building material contamination at the Welsbach/General Gas Mantle Contamination Site. The major components of the selected remedy include: Excavation/removal of soil and waste materials with radiological contamination above reme-

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dial action objectives from the former Welsbach and General Gas Mantle Facilities; Excavation/removal of soil and waste materials with radiological contamination above remedial action objectives from the residential and commercial properties in the vicinity of two former gas mantle facilities; Off-site disposal of the radiologically-contaminated soil and waste materials; Decontamination and demolition of the General Gas Mantle Building; and Appropriate environmental monitoring to ensure the effectiveness of the remedy.

Keywords: "Superfund," "Hazardous materials," "Land pollution control," "Radiological contamination," "Radon," "Radioisotopes," "Soil contamination," "Excavation," "Waste disposal," "Buildings," "Decontamination," "Demolition," "Environmental monitoring," "New Jersey," "Record of Decision," "First Remedial Action," "Gloucester City (New Jersey)," "Camden (New Jersey)," "Camden County (New Jersey)," "Cleanup operations."

PB99-963802REB PC A10/MF A02
Superfund Record of Decision (EPA Region 2): Federal Aviation Center, Operable Unit 11, Atlantic County, N.J., September 28, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 192p, EPA 541-R99-067.
See also PB90-178203.
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This decision document presents the selected remedial action for Area 27 - Fuel Mist Test Area, Area 56 - Abandoned Navy Landfill, Area F - Air Blast Facility, Area R - Trash Dump and Area S - Excavated Area West of Tilton Road at the FAA William J. Hughes Technical Center, Atlantic City International Airport, New Jersey. The selected remedy for Areas 27, 56, F, R, and S is an institutional control and ground water monitoring remedy, consisting of the following components for each individual area: Area 27 - Residential Site Use Restrictions; Area 56 - Residential Site Use Restrictions, Continued Ground Water Monitoring and Establishment of a Ground Water Classification Exception Area; Area F - Residential Site Use Restrictions; Area R - Residential Site Use Restrictions, Ground Water Use Restrictions including the Establishment of a Ground Water Classification Exception Area; and Continued Ground Water Monitoring; and Areas S - Residential Site Use Restrictions.

Keywords: "Superfund," "Hazardous materials," "Waste management," "Petroleum products," "Pesticides," "Heavy metals," "Ground water," "Water pollution monitoring," "Site characterization," "Restrictions," "Remedial action," "New Jersey," "Record of Decision," "Federal Aviation Administration Technical Center," "Atlantic City (New Jersey)," "Atlantic County (New Jersey)," "Volatile organic compounds," "Semivolatile organic compounds."

PB99-963804REB PC A05/MF A01
Superfund Record of Decision (EPA Region 2): Naval Air Engineering Station, Areas I and J, Groundwater Operable Unit 26, Lakehurst, N.J., September 27, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 66p, EPA 541-R99-081.
See also PB95-963804.
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This decision document presents the final remedy to address Areas I and J groundwater at the Naval Air Engineering Station in Lakehurst, New Jersey. The selected alternative is natural restoration with long-term groundwater monitoring to address the groundwater contamination in and downgradient of Areas I and J and co-metabolism to treat the higher area of groundwater contamination.

Keywords: "Superfund," "Hazardous materials," "Waste management," "Naval facilities," "Ground water," "Plumes," "Microbial degradation," "Water pollution monitoring," "Restrictions," "Site characterization," "New Jersey," "Record of Decision," "Naval Air Engineering Station," "Lakehurst (New Jersey)," "Volatile organic compounds," "Natural attenuation," "Co-metabolism."

PB99-963805REB PC A07/MF A02
Superfund Record of Decision (EPA Region 2): Brookhaven National Laboratory (USDOE), Operable Unit 1, Upton, NY., September 16, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 108p, EPA 541-R99-082.
See also PB96-963818.
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This decision document presents the selected remedial action for Operable Unit 1, other Areas of Concern (AOCs) with radiologically contaminated soils and wetland areas with contaminated sediments at the Brookhaven National Laboratory (BNL) site in Upton, New York.

Keywords: "Superfund," "Hazardous materials," "Land pollution control," "Radiological contamination," "Brookhaven National Laboratory," "Cesium 137," "Strontium 90," "Radium 226," "Lead (Metal)," "Mercury (Metal)," "Landfills," "Pipes (Tubes)," "Tanks," "Soil contamination," "Sediments," "Excavation," "Removal," "Waste disposal," "Restrictions," "Environmental monitoring," "Remedial action," "New York," "Record of Decision," "Upton (New York)," "Suffolk County (New York)," "Cleanup operations," "Volatile organic compounds."

PB99-963806REB PC A14/MF A03
Superfund Record of Decision (EPA Region 2): Imperial Oil Company/Champion Chemical Company Site, Operable Unit 3, Morganville, N.J., September 30, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 286p, EPA 541-R99-084.
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This Record of Decision (ROD) documents the U.S. Environmental Protection Agency's selection of a third remedial action to address on-site soil, including the waste filter clay pile and address on-site soil, including the waste filter clay pile and the subsurface floating product, at the Imperial Oil Company/Champion Chemical Company Superfund Site.

Keywords: "Superfund," "Hazardous materials," "Land pollution control," "Polychlorinated biphenyls," "Petroleum products," "Hydrocarbons," "Pesticides," "Metals," "Aroclors," "Soil contamination," "Excavation," "Waste disposal," "Backfills," "New Jersey," "Record of Decision," "Third Remedial Action," "Morganville (New Jersey)," "Marlboro Township (New Jersey)," "Monmouth County (New Jersey)," "Volatile organic compounds," "Semivolatile organic compounds," "Cleanup operations."

PB99-963901REB PC A04/MF A01
Superfund Record of Decision (EPA Region 3): USA Fort George G. Meade (TAP) Operable Unit, Fort Meade, MD., July 20, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 36p, EPA 541-R99-005.
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This Record of Decision (ROD) presents a determination that no further action is necessary to protect human health and the environment for the Tipton Airfield Parcel Operable Unit (TAP OU); which includes a final determination for Tipton groundwater, and the following Areas Requiring Environmental Evaluation (AREES): AREE 10 - Inactive Landfill No. 1 (IAL1); and AREE 11 - Inactive Landfill No. 2 (IAL2).

Keywords: "Superfund," "Hazardous materials," "Waste management," "Army facilities," "Unexploded ordnance," "Benzene," "DNT," "Landfills," "Soil contamination," "Ground water," "Restrictions," "Remedial action," "Site characterization," "Maryland," "Record of Decision," "Fort George G. Meade," "Fort Meade (Maryland)," "Anne Arundel County (Maryland)."

PB99-963903REB PC A05/MF A01
Superfund Record of Decision (EPA Region 3): Langley Air Force Base, NASA Langley Center, Operable Unit 42, Hampton, VA., January 14, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 56p, EPA 541-R99-007.
See also PB98-963909 and PB98-963910.
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This Record of Decision (ROD) presents the selected remedial action for Operable Unit (OU) 42 Langley Air Force Base (AFB) in Hampton, Virginia. Langley AFB, EPA, and VDEQ have determined that no action is necessary for this site. Risk assessment results indicate that OU-42 soils do not pose an imminent or substantial danger to public health, welfare, or the environment.

Keywords: "Superfund," "Hazardous materials," "Waste management," "Air Force facilities," "Pesticides," "Metals," "Soil contamination," "Site characterization," "Remedial action," "Installation restoration," "Virginia," "Record of Decision," "Langley Air Force Base," "Hampton (Virginia)," "York County (Virginia)," "Volatile organic compounds," "Semivolatile organic compounds."

PB99-963905REB PC A07/MF A02
Superfund Record of Decision (EPA Region 3): Boarhead Farm Site, Bridgeton Township, PA., November 18, 1998.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 120p, EPA 541-R99-009.
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This decision document presents the final selected remedial action for the Boarheads Farms Superfund Site (Site). The selected remedy includes the following major components: Soil Aeration and Treatment of VOC Hot Spots; Excavation and Offsite Disposal of Buried Drums; Groundwater Extraction, Metals Precipitation, and Air Stripping; Installation of Additional Monitoring Wells; Institutional Controls and Monitoring; Residential Water Treatment; and Phytoremediation.

Keywords: "Superfund," "Hazardous materials," "Waste disposal," "Land pollution control," "Water pollution control," "Benzene," "Metals," "Drums (Containers)," "Ground waters," "Soil contamination," "Extraction," "Water treatment," "Water supply," "Water pollution monitoring," "Soil treatment," "Remedial action," "Pennsylvania," "Record of Decision," "Bridgeton Township (Pennsylvania)," "Bucks County (Pennsylvania)," "Volatile organic compounds," "Trichloroethene," "Cleanup operations."

PB99-963906REB PC A07/MF A02
Superfund Record of Decision (EPA Region 3): Naval Weapon Station (WPNSTA) Operable Units 8 and 9, Yorktown, VA., June 9, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 124p, EPA 541-R99-010.
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This Record of Decision (ROD) documents the selected remedial actions to reduce the risks posed by soil at Site 1 and soil at Site 3 located at WPNSTA Yorktown, Yorktown, Virginia. Soil contaminated by arsenic at Site 1 is designated as OU VIII and soil contaminated by polynuclear aromatic hydrocarbons (PAHs) at Site 3 is designated as OU IX. The removal of soil at Sites 1 and 3 addresses the principal threat to human health and the environment at OUs VIII and IX by eliminating the source materials (arsenic and polynuclear aromatic hydrocarbons (PAHs)) and eliminating the potential release of these contaminants to the environment.

Keywords: "Superfund," "Hazardous materials," "Land pollution control," "Naval facilities," "Arsenic," "Polycyclic aromatic hydrocarbons," "Landfills," "Soil contamination," "Excavation," "Waste disposal," "Backfills," "Revegetation," "Restrictions," "Remedial action," "Virginia," "Record of Decision."

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sion, Yorktown Naval Weapons Station, Yorktown(Virginia), York County(Virginia), Cleanup operations.

PB99-963907REB PC A09/MF A02
Superfund Record of Decision (EPA Region 3): Naval Weapons Station (WPNSTA), Operable Units 12, 13, 14, and 15, Yorktown, VA., October 13, 1998.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 156p, EPA 541-R99-011.
See also PB97-963919 and PB98-963919.
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This Record of Decision (ROD) documents the selected remedial action to reduce the risks posed by contaminated media at Sites 6 and 7 located at WPNSTA Yorktown, Yorktown, Virginia. The removal and treatment of soil/sediment and Building 109 residue at OU XIII, Site 6-Flume Area, and a soil cover at OU XIV, Site, 6-Excavated Area, address the principal threat to human health and the environment by eliminating source materials and potential release of these contaminants to the environment. They also mitigate the potential for direct contact with soil at the Site 6-Excavated Area Long-term monitoring of sediment, surface water, and groundwater at OU XV will: (1) evaluate the efficacy of the removal planned for the Site-6 Flume Area in removing a potential source of continuing contaminant release and (2) provide temporal data about conditions in the Site 6-Impoundment Area and the quality of shallow groundwater which may interconnect with Sites 6 and 7 surface water and sediments.

Keywords: *Superfund, *Hazardous materials, *Land pollution control, Naval facilities, Explosives, TNT, DNT, RDX, HMX, Metals, Cadmium, Zinc, Nitramines, Soil contamination, Sediments, Excavation, Soil treatment, Backfills, Environmental monitoring, Water pollution monitoring, Installation restoration, Remedial action, Virginia, *Record of Decision, Yorktown Naval Weapons Station, Yorktown(Virginia), York County(Virginia), Volatile organic compounds, Nitroaromatics, Cleanup operations.

PB99-963908REB PC A08/MF A02
Superfund Record of Decision (EPA Region 3): Patuxent River Naval Air Station Operable Unit 1 Soils, Pesticide Shop (Site 17), St. Mary's County, MD., December 16, 1998.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 134p, EPA 541-R99-012.
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Site 17-Pesticide Shop is located at Naval Air Station (NAS) Patuxent River, Maryland. This ROD presents the following final remedy for Operable Unit 1 (OU 1) soil at Site 17: excavation of soil that poses an unacceptable risk to human health (soil with contaminant concentrations that exceed human health and groundwater protection remediation criteria (RC)); conduct site-specific soil toxicity and bioaccumulation tests during the remedial design and remedial action (RD/RA) on the contaminated soil; if there is an unacceptable risk to ecological receptors, the Navy shall place a vegetated soil and gravel cover over the contaminated soil that poses an unacceptable risk to ecological receptors; and institutional controls to limit the use of the property so that integrity of the gravel and soil cover will not be compromised.

Keywords: *Superfund, *Hazardous materials, *Land pollution control, Naval air stations, Pesticides, Herbicides, Fungicides, Carbamates, Hormones, Wood preservatives, Chlorinated hydrocarbons, Soil contamination, Excavation, Soil treatment, Waste disposal, Revegetation, Environmental monitoring, Restrictions, Remedial action, Installation restoration, Maryland, *Record of Decision, Patuxent River Naval Air Station, Saint Mary's County(Maryland), Cleanup operations.

PB99-963909REB PC A05/MF A01
Superfund Record of Decision (EPA Region 3): Aberdeen Proving Ground (Edgewood Area), Aberdeen Proving Ground, MD., June 11, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 55p, EPA 541-R99-013.
See also PB92-963916.
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This Record of Decision (ROD) document presents the remedial action selected to reduce the risks posed by the Old Brush River Road Dump located at the Bush River Study Area at Aberdeen Proving Ground (APG). This action addresses the principal threats at the Old Brush River Road Dump by constructing a soil cap. The soil cap reduces migration of contaminants by reducing infiltration and stabilizing the Old Brush River Road Dump (OBRDD) to prevent erosion of surface soil, and attenuates the detonation of a 4.2-in. chemical mortar. The selected remedy for the OBRDD will include long-term monitoring and institutional controls.

Keywords: *Superfund, *Hazardous materials, *Waste management, Military facilities, Dumps, Mortars(Material), Capping, Soil contamination, Erosion control, Environmental monitoring, Restrictions, Site characterization, Remedial action, Maryland, *Record of Decision, Aberdeen Proving Ground, Harford County(Maryland).

PB99-963910REB PC A06/MF A01
Superfund Record of Decision (EPA Region 3): USA Vint Hill Farms Station, AREEs 2, 4, 28-5, and 31, Warrenton, VA., July 1, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 78p, EPA 541-R99-014.
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This Decision Document (DD) presents the selected remedial action for soil at AREEs 2, 4, 28-5, and 31 at Vint Hill Farms Station (VHFS), Warrenton, Virginia. This action addresses the principal threat at AREEs 2, 4, 28-5, and 31 by the excavation of contaminated soil and off-site disposal at a permitted facility.

Keywords: *Superfund, *Hazardous materials, *Land pollution control, Army facilities, Petroleum products, Hydrocarbons, Soil contamination, Excavation, Waste disposal, Remedial action, Virginia, *Record of Decision, Vint Hill Farms Station, Warrenton(Virginia), Fauquier County(Virginia), AREEs(Areas Requiring Environmental Evaluation), Cleanup operations.

PB99-963911REB PC A07/MF A02
Superfund Record of Decision (EPA Region 3): USA Vint Hill Farms Station AREEs 3, 5, 7, 10, 16-2, 17, 18, 20, 24, 25, 26, 29-1, 29-2, 29-3, 30, and 33, Warrenton, VA., July 1, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 106p, EPA 541-R99-015.
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This Decision Document (DD) presents a determination that no action is necessary to protect human health and the environment for soil at AREEs 3, 5, 7, 10, 16-2, 17, 18, 20, 24, 25, 26, 29-1, 29-2, 29-3, 30, and 33; site-wide groundwater; South Run at AREEs 1 and 2; and other site drainages at Vint Hill Farms Station (VHFS), Warrenton, Virginia. No action is the selected remedy for AREEs 3, 5, 7, 10, 16-2, 17, 18, 20, 24, 25, 26, 29-1, 29-2, 29-3, 30, and 33; site-wide groundwater; South Run at AREEs 1 and 2; and other site drainages. The Baseline Risk Assessment (BRA), conducted as part of the investigation activities, supports the no action decision.

Keywords: *Superfund, *Hazardous materials, *Waste management, Army facilities, Polycyclic aromatic hydrocarbons, Metals, Acids, Soil contamination, Ground water, Site characterization, Remedial action, Virginia, *Record of Decision, Vint Hill Farms Station, Warrenton(Virginia), Fauquier County(Virginia), AREEs(Areas Requiring Environmental Evaluation).

PB99-963912REB PC A06/MF A01
Superfund Record of Decision (EPA Region 3): USA Vint Hill Farms Station AREEs 9, 11, 19, and 21, Warrenton, VA., July 1, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 76p, EPA 541-R99-016.
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This Decision Document (DD) presents a determination that no action is necessary to protect human health and the environment for soil at AREE 21. In addition, this DD presents the selected remedial action for soil at AREEs 9, 11, and 19 at Vint Hill Farms Station (VHFS), Warrenton, Virginia. The selected remedial action addresses the principal threat at AREEs 9, 11, and 19 by the excavation of contaminated soil and off-site disposal at a permitted facility. No action is the selected remedy for AREE 21 since the established soil cleanup level is higher than the maximum detected contaminant concentration.

Keywords: *Superfund, *Hazardous materials, *Land pollution control, Army facilities, Petroleum products, Polycyclic aromatic hydrocarbons, Mercury(Metal), Lead(Metal), Pesticides, Dioxins, Furans, Soil contamination, Excavation, Waste disposal, Remedial action, Virginia, *Record of Decision, Vint Hill Farms Station, Warrenton(Virginia), Fauquier County(Virginia), Cleanup operations, AREEs(Areas Requiring Environmental Evaluation).

PB99-963913REB PC A06/MF A01
Superfund Record of Decision (EPA Region 3): USA Vint Hill Farms Station AREEs 13, 14, 16-1, 27, and 29-4, Warrenton, VA., July 1, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 88p, EPA 541-R99-017.
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This Decision Document (DD) presents a determination that no action is necessary to protect human health and the environment for soil at AREEs 13, 14, 16-1, 27, and 29-4 at Vint Hill Farms Station (VHFS), Warrenton, Virginia.

Keywords: *Superfund, *Hazardous materials, *Waste management, Army facilities, Lead(Metal), Solvents, Hydrocarbons, Petroleum products, Arsenic, Sludges, Soil contamination, Site characterization, Remedial action, Virginia, *Record of Decision, Vint Hill Farms Station, Warrenton(Virginia), Fauquier County(Virginia), AREEs(Areas Requiring Environmental Evaluation).

PB99-963914REB PC A05/MF A01
Superfund Record of Decision (EPA Region 3): USA Vint Hill Farms Station, Western South Run Tributary, Warrenton, VA., July 1, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 66p, EPA 541-R99-018.
Paper copy available as an ongoing subscription, credit card payment accepted. Single copies also available in paper copy or microfiche. Product reproduced from digital image.

This Decision Document (DD) presents the selected remedial action for the western South Run tributary at Vint Hill Farms Station (VHFS), Warrenton, Virginia. This action addresses the principle threat at the site by the dredging of contaminated sediment and off-site disposal at a permitted facility.

Keywords: *Superfund, *Hazardous materials, *Land pollution control, Army facilities, Pesticides, Silver, Lead(Metal), Chromium, Copper, Sediments, Dredging, Waste disposal, Remedial action, Virginia, *Record of Decision, Vint Hill Farms Station, Warrenton(Virginia), Fauquier County(Virginia), Cleanup operations.

PB99-963915REB PC A05/MF A01
Superfund Record of Decision (EPA Region 3): Langley Air Force Base, NASA Langley Center Operable Unit 2, Hampton, VA., September 2, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.

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1999, 74p, EPA 541-R99-051.

See also PB98-963909 and PB98-963910. Paper copy available as an ongoing subscription, credit card payment accepted. Single copies also available in paper copy or microfiche. Product reproduced from digital image.

This Record of Decision (ROD) presents the selected remedial action for the Stratton Substation Operable Unit (OU) at the NASA Langley Research Center (LaRC) in Hampton, Virginia. This action addresses the principle threat a the Stratton Substation OU by excavating and disposing of contaminated soil off-site and by imposing land use restrictions that will prevent any non-industrial activities to take place on the OU.

Keywords: "Superfund, "Hazardous materials, "Land pollution control, Polychlorinated biphenyls, Soil contamination, Excavation, Waste disposal, Backfills, Restrictions, Virginia, "Record of Decision, Langley Research Center, Hampton(Virginia), York County(Virginia), Cleanup operations.

PB99-963916REB PC A06/MF A01
Superfund Record of Decision (EPA Region 3): Defense General Supply Center (DLA), Operable Unit 4, Chesterfield County, VA., August 31, 1999. Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 96p, EPA 541-R99-052.

See also PB94-963904 and PB95-963915. Paper copy available as an ongoing subscription, credit card payment accepted. Single copies also available in paper copy or microfiche. Product reproduced from digital image.

This decision document presents a determination that no remedial action is necessary to protect human health and the environment at the Fire Training Area (FTA) Source Area, which has been designated as Operable Unit (OU) 4, at the Defense Supply Center Richmond (DSCR) in Richmond, Virginia. The "No Action Alternative" is the selected remedy for this site. The Remedial Investigation and the Risk Evaluation conducted for OU 4 support this decision. The concentrations of contaminants in the soil at the site do not pose unacceptable risks to ecological receptors or human health. The human receptors, which were evaluated included current and potential future on-site receptor at OU 4, including workers, construction workers, recreational users and residents.

Keywords: "Superfund, "Hazardous materials, "Waste management, Military facilities, Polycyclic aromatic hydrocarbons, Petroleum products, Metals, Polychlorinated biphenyls, Soil contamination, Site characterization, Remedial action, Virginia, "Record of Decision, Defense General Supply Center, Richmond(Virginia), Chesterfield(Virginia), Volatile organic compounds, Semivolatile organic compounds.

PB99-963917REB PC A05/MF A01
Superfund Record of Decision (EPA Region 3): Langley Air Force Base/NASA Langley Center, Operable Unit 50, Hampton, VA., September 27, 1999. Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 62p, EPA 541-R99-060.

See also PB98-963909 and PB98-963910. Paper copy available as an ongoing subscription, credit card payment accepted. Single copies also available in paper copy or microfiche. Product reproduced from digital image.

This Record of Decision (ROD) presents the selected remedial action for IRP Site 61, designated Operable Unit (OU)-50, at Langley Air Force Base in Hampton, Virginia. This ROD identifies the final action for soils and an interim action for ground water at the OU. Ground water will be addressed in a final action on an installation-wide basis as a separate OU. This action addresses the principle threat at the OU by imposing land use restrictions that will prevent any non-industrial activities from taking place at this location. In addition, the interim ground water action will prevent any use, other than monitoring, of the ground water at the OU.

Keywords: "Superfund, "Hazardous wastes, "Waste management, Air Force facilities, Benzene, Arsenic, Pesticides, Polychlorinated biphenyls, Ground water, Soil contamination, Restrictions, Water pollution monitoring, Site characterization, Installation restoration, Remedial action, Virginia, "Record of Decision, Langley Air Force Base, Hampton(Virginia), York County(Virginia), Volatile organic compounds, Semivolatile organic compounds.

ty(Virginia), Volatile organic compounds, Semivolatile organic compounds.

PB99-963918REB PC A06/MF A01
Superfund Record of Decision (EPA Region 3): Naval Surface Warfare Dahlgren, Sites 19 and 29, Operable Units 13 and 14, Dahlgren, VA., September 27, 1999.

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 88p, EPA 541-R99-061.

See also PB98-963913. Paper copy available as an ongoing subscription, credit card payment accepted. Single copies also available in paper copy or microfiche. Product reproduced from digital image.

This decision document focuses on remedial decisions and presents the selected remedial actions for Site 19 - Transformer Draining Area and Site 29 - Battery Service Area at the Naval Surface Warfare Center Dahlgren Site (NSWCDC) Dahlgren, Virginia. The selected remedies for each site are as follows: Site 19 Soil - No Further Action. PCB-contaminated soils were removed in 1994. Groundwater at Site 19 will be addressed concurrently with adjacent Site 40 at a future date; and Site 29 Soil and Groundwater - No Further Action. Contaminated soils were removed in 1994. Risk analysis conducted after the removal revealed that residual risks to human health and the environment were within acceptable limits.

Keywords: "Superfund, "Hazardous materials, "Waste management, Naval facilities, Polychlorinated biphenyls, Soil contamination, Ground water, Site characterization, Remedial action, Virginia, "Record of Decision, Naval Surface Warfare Center Dahlgren, Dahlgren(Virginia), King George County(Virginia).

PB99-963921REB PC A07/MF A02
Superfund Record of Decision (EPA Region 3): Rodale Manufacturing Company, Inc., Site Operable Unit 1, Emmaus Borough, PA., September 30, 1999.

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 104p, EPA 541-R99-086.

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This decision document presents the selected remedial action for the Rodale Manufacturing Superfund Site (Site). The selected remedy includes (1) hydraulic containment of the highest levels of contaminated ground water at and in the vicinity of a portion of the aquifer at the Site which has been determined to have Dense Non-Aqueous Phase Liquid (DNAPLs) (2) a Technical Impracticability waiver for the Applicable and Relevant and Appropriate Requirement (ARAR) for TCE in ground water and TCE and PCE for the subsurface soil in the Probable DNAPL Zone; and (3) passive treatment through Monitored Natural Attenuation (MNA) for the ground water contamination that has mitigated beyond the boundaries of the Probable DNAPL Zone.

Keywords: "Superfund, "Hazardous materials, "Waste management, Trichloroethanes, Ground water, Aquifers, Plumes, Soil contamination, Containment, Restrictions, Site characterization, Remedial action, Pennsylvania, "Record of Decision, Emmaus Borough(Pennsylvania), Lehigh County(Pennsylvania), Dense nonaqueous phase liquids, Volatile organic compounds, Tetrachloroethanes, Natural attenuation.

PB99-963922REB PC A04/MF A01
Superfund Record of Decision (EPA Region 3): Naval Air Development Center (8 Areas) Operable Unit 5, Site 8, Warminster Township, PA., September 29, 1999.

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 38p, EPA 541-R99-087.

See also PB97-963922. Paper copy available as an ongoing subscription, credit card payment accepted. Single copies also available in paper copy or microfiche. Product reproduced from digital image.

This Record of Decision (ROD) presents the determination that no further action is necessary to protect

human health and the environment for Operable Unit 5 (OU-5) at the former Naval Air Development Center in Warminster Township, Bucks County, Pennsylvania. OU-5 consists of soil, sediment, and surface water associated with Site 8. A 1999 removal action eliminated the unacceptable risk associated with lead-contaminated soils. Post-removal verification sampling and subsequent Remedial Investigation activities support the no further action remedial alternative.

Keywords: "Superfund, "Hazardous materials, "Waste management, Naval facilities, Metals, Soil contamination, Sediments, Surface waters, Site characterization, Remedial action, Pennsylvania, "Record of Decision, Naval Air Development Center, Warminster Township(Pennsylvania), Bucks County(Pennsylvania), Volatile organic compounds.

PB99-963923REB PC A06/MF A01
Superfund Record of Decision (EPA Region 3): Patuxent River Naval Station, Operable Unit 1, Soils Bohnyard (Sites 6 and 6A), St. Mary's County, MD., September 29, 1999.

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 82p, EPA 541-R99-088.

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This Record of Decision (ROD) addresses Operable Unit 1 (OU-1), soil, at Sites 6 and 6A (the Bohnyard), located at Naval Air Station (NAS) Patuxent River in St. Mary's County, Maryland. The major components of the selected remedy for OU-1 include: a concrete and asphalt parking lot will be constructed over approximately one-half of Site 6; a cover compromised of 8 inches of topsoil over 4 inches of compacted gravel will be placed over the remaining area of Site 6 in which concentrations of hazardous substances are greater than the site worker exposure Performance Standards (PSS); At Site 6A, an asphalt cover will be constructed for storage and staging; and institutional controls will consist of access restrictions to prevent trespassing, limiting access to groundwater underlying Sites 6 and 6A, and monitoring to assess whether contaminants are migrating to the environment.

Keywords: "Superfund, "Hazardous materials, "Waste management, Naval air stations, Oil wastes, Solvents, Paints, Pesticides, Fly ash, Soil contamination, Coverings, Gravels, Asphalt pavements, Restrictions, Site characterization, Remedial action, Installation restoration, Maryland, "Record of Decision, Patuxent River Naval Air Station, Saint Mary's County(Maryland).

PB99-964005REB PC A07/MF A02
Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 4, Albany, GA., April 2, 1999.

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 112p, EPA 541-R99-023.

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Operable Unit (OU) 4 is composed of the potential sources of contamination (PSC) that are directly or geographically associated with the Depot Maintenance Activity (DMA), which is located on the southeastern side of Broom Boulevard. OU 4 consists of five PSCs, including PSC 10, DMA; PSC 22, DMA Old 90-Day Storage Area; PSC 13, Industrial Wastewater Pipeline (IWP); PSC 12, Industrial Wastewater Treatment Plant (IWWTP); and PSC 6, Industrial Discharge Drainage Ditch/Sanitary Sewer line. This Record of Decision (ROD) document presents the final response for OU4 at the Marine Corps Logistics Base (MCLB), Albany. A No Action (NA) remedy was selected for PSCs 10, 12, 13, and 22. Under this alternative, no treatment, containment, or additional restricted access is planned for these PSCs. The selected remedy for PSC 6 is a Land-Use Controls (LUCs) as outlined in the Land-Use Control Implementation Plan (LUCIP), presented in Appendix B of the ROD.

Keywords: "Superfund, "Hazardous materials, "Waste management, Marine Corps facilities, Pesticides, Polychlorinated biphenyls, Soil contamination, Land use, Restrictions, Site characterization, Remedial action, Georgia, "Record of Decision, Marine Corps Logistics

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Center, Albany(Georgia), Dougherty County(Georgia), Volatile organic compounds, Semivolatile organic compounds.

PB99-964006REB PC A05/MF A01
Superfund Record of Decision (EPA Region 4): Jacksonville Naval Air Station, Operable Unit 2, Jacksonville, FL., March 19, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 66p, EPA 541-R99-024.
See also PB95-964043.

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The site name is Operable Unit (OU) 2, which comprises Potential Sources of Contamination (PSCs) 2 (Former Firefighting Training Area (FTA)), 3 (Wastewater Treatment Plant (WWTP) Sludge Disposal Area), 4 (Pine Tree Planting Area), 41 (Domestic Waste Sludge Drying Beds), 42 (WWTP Polishing Pond), and 43 (Industrial Waste Sludge Drying Beds) located at the Naval Air Station (NAS) Jacksonville in Jacksonville, Florida. It has been determined by the Navy, USEPA, and PDEP that No Further Action with a five-year review is necessary at OU 2. In addition, PSCs 41, 42, and 43 will require postclosure groundwater monitoring under the RCRA for 2 to 3 years.

Keywords: *Superfund, *Hazardous materials, *Waste management, Naval air stations, Petroleum products, Ground water, Water pollution monitoring, Site characterization, Remedial action, Florida, *Record of Decision, Jacksonville Naval Air Station, Jacksonville(Florida), Duval County(Florida), Light nonaqueous phase liquids.

PB99-964007REB PC A07/MF A02
Superfund Record of Decision (EPA Region 4): Marzone Inc/Chevron Chemical Company Site, Operable Unit 2, Tifton, GA., July 1, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 102p, EPA 541-R99-025.
See also PB97-963158.

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The Marzone Inc./Chevron Chemical Company Site is located in south-central Georgia in the city of Tifton, at the intersection of Golden Road and the Norfolk-Southern Railroad tracks. The major components of the selected remedy for operable unit two include: Excavation and disposal of surface soils which exceed the surface soil performance standards; Excavation and disposal of sediments from the railroad drainage ditch and from the nonwooded wetland area south of the railroad spur which exceed the sediment performance standards; Transportation by truck of contaminated soil and sediment to a permitted Subtitle C or D landfill; Restoration of surface soil and wetland areas; Confirmation sampling to verify that remaining soil and sediment is below performance standards; Monitoring of wetland and creek area for at least five years to determine if remaining contamination is naturally attenuating; Installation of at least two additional groundwater monitoring wells; Annual groundwater monitoring for at least five years for the contaminants of concern, as well as potential transformation products and geochemical parameters to determine if contamination is naturally attenuating; Review of groundwater data after five years to determine if natural attenuation is effective; and Institutional controls to restrict use of contaminated groundwater.

Keywords: *Superfund, *Hazardous materials, *Land pollution control, Pesticides, DDT, Benzene hexachloride, Endrin, Toxaphene, Metals, Soil contamination, Sediments, Wetlands, Sampling, Excavation, Waste disposal, Environmental monitoring, Ground water, Water pollution monitoring, Restrictions, Remedial action, Georgia, *Record of Decision, Tifton(Georgia), Tift County(Georgia), Dinoseb, Natural attenuation, Cleanup operations.

PB99-964008REB PC A05/MF A01
Superfund Record of Decision (EPA Region 4): Stauffer Chemical Company (LeMoyné Plant) Site, Operable Unit 2, Axis, AL., March 18, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 70p, EPA 541-R99-026.
See also PB90-186487.

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This decision document (Record of Decision), presents the selected Remedial Action of Operable Unit Two for the Stauffer Chemical Co. (LeMoyné Plant) Site, Operable Unit Two, Axis, Mobile County, Alabama. The major components of the selected remedy for operable unit two are: Institutional controls to restrict construction on the former Halby area until the subsurface soil performance standards are met and to restrict the Stauffer LeMoyné Site from converting to residential use until such time as EPA determines through a risk assessment that the Site is available for unrestricted use; Construction of a soil flushing system in the former Halby area to accelerate the migration of contaminants from the subsurface soil into the groundwater where contaminants will be captured and treated by the existing OU1 groundwater remedy; Monitoring of subsurface soil for cyanide and thiocyanate in the former Halby area on an annual basis to ensure that contaminants are moving into the groundwater in a controlled manner where they will be captured and treatment by the OU1 groundwater remedy; and Periodic reporting of annual monitoring results to EPA.

Keywords: *Superfund, *Hazardous materials, *Land pollution control, Cyanide, Thiocyanates, Soil contamination, Soil treatment, Environment monitoring, Restrictions, Alabama, *Record of Decision, *Second Remedial Action, Axis(Alabama), Mobile County(Alabama), Cleanup operations.

PB99-964009REB PC A15/MF A03
Superfund Record of Decision (EPA Region 4): Ross Metals Inc., Operable Unit 1, Rossville, TN., April 2, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 306p, EPA 541-R99-027.

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This decision document presents the selected remedial action for the Ross Metals Site, Operable Unit No. 1, in Rossville, Fayette County, Tennessee. The major components of the remedy include: Decontamination, demolition, and off-Site disposal of pavement and buildings with recycling of metal debris; Excavation of contaminated soil, landfilled slag, and contaminated sediment with appropriate confirmation sampling; Backfill of excavated subsurface-soil areas and landfill with clean soil; Stabilization/ solidification/fixation of contaminated soil, stockpiled slag, landfilled slag, and wetlands sediment; Off-site disposal of soils, slag and sediment at a RCRA-nonhazardous waste disposal facility; Application of a layer of biosolids over the Site. Grass seeding of the facility and landfill areas; and revegetation of the Site wetlands according to the wetlands revegetation plan; Development of a maintenance and monitoring plan to assess the effectiveness of the cleanup action.

Keywords: *Superfund, *Hazardous material, *Land pollution control, Metals, Pavements, Buildings, Decontamination, Demolition, Soil contamination, Sediments, Slags, Excavation, Waste disposal, Waste recycling, Waste treatment, Backfills, Coverings, Environmental monitoring, Tennessee, *Record of Decision, *First Remedial Action, Rossville(Tennessee), Fayette County(Tennessee), Cleanup operations.

PB99-964010REB PC A10/MF A02
Superfund Record of Decision (EPA Region 4): Aberdeen Pesticide Dumps, Operable Unit 5, Aberdeen, NC., June 4, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 176p, EPA 541-R99-050.
See also PB97-964020.

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This decision document presents the selected remedy for the OU5 (groundwater) at the McIver Dump and Route 211 Areas of the Aberdeen Pesticide Dumps Site (the Site) in Aberdeen, North Carolina. The major components of the selected remedy for OU5 are: McIver Dump Area: Monitoring of natural attenuation in groundwater, surface water and sediments; Phytoremediation to enhance natural attenuation processes; Area reconnaissance; and Alternative water supply/well head treatment if future potential receptors are identified; and Route 211 Area—Groundwater extraction from 'source area groundwater' in the Surficial aquifer; Treatment of groundwater via carbon adsorption; Discharge of treated groundwater via re-injection infiltration galleries; Monitoring of the extraction, treatment and discharge systems; Monitoring of natural attenuation in all aquifers; Area reconnaissance; and Alternative water supply/well head treatment if future potential receptors are identified.

Keywords: *Superfund, *Hazardous materials, *Water pollution control, Pesticides, DDD, DDT, DDE, Benzene hexachloride, Ground water, Aquifers, Extraction, Water treatment, Water supply, Water pollution monitoring, Remedial action, North Carolina, *Record of Decision, Aberdeen(North Carolina), Moore County(North Carolina), Natural attenuation, Cleanup operations.

PB99-964011REB PC A05/MF A01
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Ford Building Waste Unit (643-11G), Operable Unit 57, Aiken, SC., May 20, 1999.

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 56p, EPA 541-R99-053.

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This decision document presents the selected remedial for the Ford Building Waste Unit (FBWU), in Aiken South Carolina. The selected remedy for FBWU is 'No Further Action'. The Baseline Risk Assessment (BRA) considered current, future industrial and future residential land use scenarios. Based on these scenarios, the BRA concluded that there were no final constituents of concern (COCs) (i.e., no contaminant migration constituents of concern (CM COCs), human health COCs, or ecological COCs). A time-critical removal action was implemented in early 1997. This removal action focused on removing secondary sources consisting of surface and subsurface soils that contained levels of cesium-137 above the time-critical action cleanup goal of 0.35 pCi/g.

Keywords: *Superfund, *Hazardous materials, *Waste management, *Radioactive wastes, Savannah River Plant, Cesium 137, Soil contamination, Site characterization, Remedial action, South Carolina, *Record of Decision, Aiken(South Carolina), Aiken County(South Carolina), Barnwell County(South Carolina).

PB99-964012REB PC A06/MF A02
Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 6, Sites 9 and 29, Pensacola, FL., September 23, 1999.

Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 100p, EPA 541-R99-063.

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The U.S. Environmental Protection Agency (EPA) Region 4 has reviewed the above subject decision document and concurs with the selected remedy for the Remedial Action at Sites 9 and 29. This remedy is supported by the removal actions and the previously completed Remedial Investigation and Baseline Risk Assessment Reports. The selected remedial alternative is no further action. This involves taking no further remedial actions at the site and leaving the environment media as they currently exist.

Keywords: *Superfund, *Hazardous materials, *Waste management, Naval air stations, Metals, Soil contamination, Ground water, Site characterization, Remedial

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action, Florida, *Record of Decision, Pensacola Naval Air Station, Pensacola(Florida), Escambia County(Florida).

PB99-964016REB PC A07/MF A02
Superfund Record of Decision (EPA Region 4): Southern Solvents Inc. Site, Operable Unit 1, Tampa, FL., September 30, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 112p, EPA 541-R99-078.
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This decision document presents the selected remedial action for the soil and surficial aquifer (OU1) at the Southern Solvents, Inc. Site, in Tampa, Hillsborough County, Florida. The major components of the remedy include: excavation of contaminated, unsaturated soils around the existing building; initial treatment of the highly contaminated saturated soil and surficial groundwater using chemical oxidation in areas that exceed the Florida Natural Attenuation Default Concentration for PCE; Evaluation of continued use of chemical oxidation in areas with lower concentrations of PCE; final treatment of the surficial groundwater to the cleanup goal using chemical oxidation (unless determined otherwise); and groundwater use restrictions by naming the area in a delineated area under the Southwest Florida Management District.

Keywords: *Superfund, *Hazardous materials, *Land pollution control, *Water pollution control, Tetrachlorethylene, Trichloroethylene, Soil contamination, Ground water, Excavation, Soil treatment, Water treatment, Restrictions, Remedial action, Florida, *Record of Decision, Tampa(Florida), Hillsborough County(Florida), Cis-1-2-dichloroethene, Floridan aquifer, Cleanup operations.

PB99-964017REB PC A06/MF A02
Superfund Record of Decision (EPA Region 4): Battery Tech (Duracell-Lexington) Operable Unit 1, Lexington, N.C., September 30, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 98p, EPA 541-R99-079.
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This decision document presents the selected remedy for Operable Unit One (OU1) to address contaminated soil and sediment, and ecological concerns at the Duracell Battery Tech Site (the Site) in Lexington, Davidson County, North Carolina. The major components of the selected remedy for OU1 are: In-Situ Stabilization/Solidification of Contaminated Soil in the Former Plant No. 2 area, followed by Capping of the Former Plant No. 2 Area; In-Situ Chemical Oxidation of Contaminated Soil in the Former Solvent Disposal Area, followed by Capping of the Former Solvent Disposal Area; Selective Excavation and Off-Site Disposal of Contaminated Soil in the Building No. 4 Area and the Northern Site Area, and contaminated soils and sediments located outside the facility fence line; Capping of other areas located within the facility fence line for ecological concerns; and Long-term monitoring of site-related contamination in soil, sediments, and ecological receptors.

Keywords: *Superfund, *Hazardous materials, *Land pollution control, Heavy metals, Soil contamination, Sediments, Excavation, Soil treatment, Waste disposal, Capping, Environmental monitoring, Remedial action, North Carolina, *Record of Decision, Lexington(North Carolina), Davidson County(North Carolina), Volatile organic compounds, Cleanup operations.

PB99-964018REB PC A05/MF A01
Superfund Record of Decision (EPA Region 4): Whiting Field Naval Air Station, Site 1, Northwest Disposal Area, Milton, FL., September 29, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 52p, EPA 541-R99-091.
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Site 1, Northwest Disposal Area, is a 5-acre parcel located along the northwestern facility boundary of Naval Air Station (NAS) Whiting Field, Milton, Florida. This decision document presents the selected remedial action (RA) for Site 1 at NAS Whiting Field. The purpose of the RA at Site 1 is to implement land-use controls (LUCs) to minimize future predicted risks. The LUCs will establish control for land use at the site to nonresidential use as specified in the LUCIP in Appendix B. NAS Whiting Field, on behalf of the Department of the Navy, will agree to implement periodic basewide site inspections and agency notification procedures designed to ensure the maintenance by NAS Whiting Field personnel of any site-specific LUCs deemed necessary for future protection of human health and the environment.

Keywords: *Superfund, *Hazardous materials, *Waste management, Naval air stations, Xylenes, Dieldrin, Heavy metals, Cyanide, Aluminum, Soil contamination, Restrictions, Site characterization, Remedial action, Florida, *Record of Decision, Whiting Field Naval Air Station, Milton(Florida), Santa Rosa County(Florida).

PB99-964019REB PC A05/MF A01
Superfund Record of Decision (EPA Region 4): Whiting Field Naval Air Station, Site 2, Northwest Open Disposal Area, Milton, FL., September 29, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 52p, EPA 541-R99-092.
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Site 2, Northwest Open Disposal Area, is a 12-acre parcel located along the northwestern facility boundary near the North Air Field at Naval Air Station (NAS) Whiting Field, Milton Florida. This decision document presents the selected remedial action (RA) for Site 2 at NAS Whiting Field. The purpose of the RA at Site 2 is to implement land-use controls (LUCs) to minimize future predicted risks. NAS Whiting Field, on behalf of the Department of the Navy, will agree to implement periodic basewide site inspections and agency notification procedures designed to ensure the maintenance by NAS Whiting Field personnel of any site-specific LUCs deemed necessary for future protection of human health and the environment.

Keywords: *Superfund, *Hazardous materials, *Waste management, Naval air stations, Arsenic, Chloroform, Beryllium, Vanadium, Phthalates, Soil contamination, Environmental monitoring, Restrictions, Remedial action, Florida, *Record of Decision, Whiting Field Naval Air Station, Milton(Florida), Santa Rosa County(Florida).

PB99-964103REB PC A04/MF A01
Superfund Record of Decision (EPA Region 5): Ilada Energy Company Site, East Cape Girardeau, IL., September 27, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 32p, EPA 541-R99-076.
See also PB91-116343 and PB95-260782.
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This decision document represents the selected remedial action for the Ilada Energy Company site. No further remedial action is necessary at the Ilada Energy Company site. The earlier removal action has mitigated the environmental risks to a degree that the conditions at the site pose no unacceptable risk of exposure to contaminants of concern.

Keywords: *Superfund, *Hazardous materials, *Waste management, Polychlorinated biphenyls, Ground water, Restrictions, Site characterization, Soil contamination, Remedial action, Illinois, *Record of Decision, East Cape Girardeau(Illinois), Alexander County(Illinois), Light nonaqueous phase liquids, Volatile organic compounds, Semivolatile organic compounds.

PB99-964104REB PC A06/MF A02
Superfund Record of Decision (EPA Region 5): Jennison Wright Corporation Inc. Site, Granite City, IL., September 29, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 100p, EPA 541-R99-077.
See also PB99-115412.
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This decision document represents the selected remedial action for the Jennison Wright Superfund Site. For site wastes consisting of the drip track residue and the oils found on-site, the selected alternative is to remove the waste and have it disposed at a hazardous waste facility. For site soils, a landfarm will be constructed in the northeast portion of the site. For NAPL removal, hot water and steam flushing is the selected alternative cover surfactant flushing because it is a more proven technology. For the more highly contaminated groundwater plumes, the preferred alternative is enhanced in situ biological treatment using Oxygen Release Compounds (ORC) and air sparging rather than natural attenuation and ex situ biological treatment. Natural attenuation is the selected alternative for the other areas of the site where the groundwater contamination is at a much lower level. The buildings and other structures on the site will be razed and the asbestos-containing materials inside will be abated. The selected alternative for the 'Miscellaneous Items' category is to remove the remaining miscellaneous items (debris piles, storage tanks, abandoned steel trams and several sumps and pits) that litter the site.

Keywords: *Superfund, *Hazardous materials, *Waste disposal, *Land pollution control, *Water pollution control, Waste oils, Polycyclic aromatic hydrocarbons, Metals, Creosote, Pentachlorophenol, Debris, Soil contamination, Ground water, Buildings, Demolition, Removal, Soil treatment, Water treatment, Remedial action, Illinois, *Record of Decision, Granite City(Illinois), Madison County(Illinois), NAPL(Nonaqueous phase liquids), Volatile organic compounds, Semivolatile organic compounds, Cleanup operations.

PB99-964201REB PC A10/MF A02
Superfund Record of Decision (EPA Region 6): Texas Tin Corporation Site, Operable Unit 1, Texas City, TX., May 17, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 176p, EPA 541-R99-093.
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This decision document presents the selected remedy for the first operable unit of the Tex-Tin Superfund Site, the Tex Tin Corporation smelter facility (OU1). The selected remedy for OU1 uses treatment, off-site disposal, on-site stabilization and containment, and institutional controls to mitigate the carcinogenic risk and non-carcinogenic hazards at the site.

Keywords: *Superfund, *Hazardous materials, *Land pollution control, *Radioactive wastes, Liquid wastes, Asbestos, Dusts, Acids, Metals, Radium isotopes, Thorium isotopes, Uranium, Ethylene dichlorides, Sludge disposal, Waste disposal, Soil contamination, Waste water, Containment, Stabilization, Demolition, Ground water, Water pollution monitoring, Restrictions, Remedial action, Texas, *Record of Decision, Texas City(Texas), La Marque(Texas), Galveston County(Texas), Cleanup operations.

PB99-964301REB PC A10/MF A02
Superfund Record of Decision (EPA Region 7): Ogallala Ground Water Contamination Site, Operable Unit 1, Ogallala, NE., April 23, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 178p, EPA 541-R99-029.
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This decision document presents the selected remedy for Operable Unit No. 01 of the Ogallala Ground Water Contamination Site located in Ogallala, Nebraska. This

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ROD addresses Operable Unit No. 01 (OU1) which involves several separate areas of ground water contamination in the city of Ogallala. OU1 includes a plume of tetrachloroethylene (PCE) and trichloroethylene (TCE), located in the western portion of the site, in the Alluvial formation of the Ogallala aquifer and a second plume characterized by carbon tetrachloride (CT) and TCE contamination, located in the center of the site and present in the upper Ogallala formation.

Keywords: "Superfund, "Hazardous materials, "Water pollution control, Tetrachloroethylene, Trichloroethylene, Carbon tetrachloride, Ground water, Aquifers, Plumes, Extraction, Water treatment, Restrictions, Water supply, Water wells, Water pollution monitoring, Remedial action, Nebraska, "Record of Decision, Ogallala(Nebraska), Keith County(Nebraska), Natural attenuation, Cleanup operations.

PB99-964302REB PC A06/MF A01
Superfund Record of Decision (EPA Region 7): Ace Services Site, Colby, KS., May 5, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 90p, EPA 541-R99-030.
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This decision document presents the selected remedial action for the Ace Services Site, in Colby, Kansas. This ROD addresses contaminated groundwater and contamination within on-site buildings. The principal threat at this site is metals contamination in the on-site buildings. Another major threat is metals contamination in groundwater. The specific metals which have been identified as contaminants of concern (COCs) are hexavalent chromium (Cr(VI)) and lead. The presence of hexavalent chromium in the groundwater at the site presents a threat to any future on-site or off-site resident users of groundwater.

Keywords: "Superfund, "Hazardous materials, "Waste disposal, "Water pollution control, Lead(Metal), Ground water, Aquifers, Dusts, Contamination, Buildings, Pumping, Water treatment, Discharge(Water), Water pollution monitoring, Decontamination, Removal, Restrictions, Remedial action, Kansas, "Record of Decision, Colby(Kansas), Thomas County(Kansas), Hexavalent chromium, Bioremediation, Cleanup operations.

PB99-964303REB PC A12/MF A03
Superfund Record of Decision (EPA Region 7): Lake City Army Ammunition Plant, Area 18 Operable Unit, Independence, MO., April 22, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 250p, EPA 541-R99-031.
See also PB98-964310.
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This decision document describes the selected remedial action for Area 18 Operable Unit (OU), Lake City Army Ammunition Plant (LCAAP). National Priorities List (NPL) Site, Independence, Jackson County, Missouri. The selected alternative for the Area 18 OU. Soil Vapor Extraction and Excavation in combination with Ground Water Extraction and Treatment, includes the following major components: soil extraction using a multi-phase extraction system and treatment of extracted ground water and vapors to address VOC (volatile organic compound)-contaminated soil and shallow ground water in source area; excavation and disposal of lead-contaminated soil; ground water extraction and treatment; institutional controls to limit future site use; and long-term monitoring.

Keywords: "Superfund, "Hazardous materials, "Waste disposal, "Land pollution control, "Water pollution control, Army facilities, Munitions industry, Lead(Metal), Ground water, Soil contamination, Extraction, Water treatment, Excavation, Environmental monitoring, Water pollution monitoring, Restrictions, Remedial action, Missouri, "Record of Decision, Lake City Army Ammunition Plant, Independence(Missouri), Jackson County(Missouri), Volatile organic compounds, Cleanup operations.

PB99-964305REB PC A08/MF A02
Superfund Record of Decision (EPA Region 7): 57th and North Broadway Streets Site, Operable Unit 1, Wichita, KS., September 29, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 148p, EPA 541-R99-075.
See also PB98-964307.
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This decision document presents the selected remedy for the 57th and N. Broadway site OU1, in Park City - Wichita, Kansas. This action addresses contaminated ground water and soils. An in-well treatment system will be designed for the northern plume to contain and treat the plume to the point that the contaminant levels fall below Maximum Contaminant Levels (MCLs). Additional in-well strippers may be added to the Riverview plume to complete the treatment of the southern plume to MCLs. In addition, in-situ vapor extraction will be utilized to treat contaminated soils at the former Wilko Paint facility. Additional soil sampling will take place on the Midland Refinery and Wilko properties to determine if in-situ vapor extraction will be necessary to treat soils which could constitute a source for ground water contamination at these locations. This remedy also includes ground water monitoring to determine the effectiveness of the treatment system and institutional controls to prevent exposure to contaminated ground water.

Keywords: "Superfund, "Hazardous materials, "Land pollution control, "Water pollution control, Vinyl chloride, Ground water, Plumes, Soil contamination, Water treatment, Soil treatment, Water pollution monitoring, Environmental monitoring, Restrictions, Kansas, "Record of Decision, "Second Remedial Action, Wichita Heights(Kansas), Sedgwick County(Kansas), Volatile organic compounds, Tetrachloroethene, Dichloroethene, Trichloroethene, Cleanup operations.

PB99-964403REB PC A06/MF A01
Superfund Record of Decision (EPA Region 8): California Gulch Site, Operable Unit 9, Leadville, CO., September 2, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 76p, EPA 541-R99-055.
See also PB98-964401 and PB98-964402.
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This decision document presents the Selected Remedy for OU9 within the California Gulch Superfund Site in Leadville, Colorado. The major components of the selected remedy include: an extensive education and intervention program to manage lead exposure at the site; continued voluntary blood lead monitoring (with financial incentives, as appropriate) for all children age 6-72 months and voluntary blood lead monitoring for pregnant and nursing women; if the concentration of lead in blood of a child or a pregnant or nursing woman exceeds the blood lead criterion, or if the concentration of lead exceeds a specified set of trigger criteria for one or more the environmental media at a residence, then appropriate actions will be taken to address the exceedance.

Keywords: "Superfund, "Hazardous materials, "Waste management, Lead(Metal), Paints, Dust, Soil contamination, Health surveys, Public health education, Restrictions, Site characterization, Remedial action, Colorado, "Record of Decision, California Gulch, Leadville(Colorado), Lake County(Colorado).

PB99-964404REB PC A05/MF A01
Superfund Record of Decision (EPA Region 8): California Gulch Site, Operable Unit 2, Leadville, CO., September 28, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 68p, EPA 541-R99-072.
See also PB98-964401 and PB98-964402.
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The California Gulch Superfund Site is located in the Leadville, Colorado mining district in Lake County ap-

proximately 100 miles southwest of Denver. This Record of Decision selects the remedial action for source remediation at Operable Unit 2 of the Site. Operate Unit 2 includes the Malta Gulch Tailings Impoundments, including Leadville Corporation Mill; the Malta Tailings, including the Leadville Silver & Gold Mill facility; and the fluvial tailings in the area known as the Lower Malta Gulch. Four (4) removal/response actions were performed at OU 2. In chronological order, the fluvial tailings were excavated from Lower Malta Gulch and deposited in the Malta Gulch Tailings Impoundment. No further response actions are necessary for the Malta Gulch Tailings Impoundment and Malta Tailings Impoundment portions of OU 2, as long as the present zoning, industrial mining, or similar zoning that does not allow residential use is maintained.

Keywords: "Superfund, "Hazardous materials, "Waste management, Tailings, Mine wastes, Cyanide, Metals, Restrictions, Site characterization, Remedial action, Colorado, "Record of Decision, California Gulch, Leadville(Colorado), Lake County(Colorado).

PB99-964502REB PC A07/MF A02
Superfund Record of Decision (EPA Region 9): Travis Air Force Base West/Annexes/Basewide Operable Unit (WABOU), Solano County, CA., March 16, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 110p, EPA 541-R99-042.
See also PB98-964503.
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This Interim Record of Decision (IROD) presents the interim groundwater remedial actions in the West/Annexes/Basewide Operable Unit (WABOU) at the Travis Air Force Base (AFB) Superfund site in Solano County, California. As a result of past industrial activities, releases of volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), and pesticides have contaminated the groundwater at four WABOU sites at Travis AFB. These sites are Building 755, Landfill 3, Building 905, and Building 916. Actual or threatened releases of hazardous substances from these sites, if not addressed by implementing the response actions elected in this Groundwater IROD, may present a potential threat to public health, welfare, or the environment.

Keywords: "Superfund, "Hazardous materials, "Water pollution control, Air Force facilities, Pesticides, Polychlorinated biphenyls, Ground water, Extraction, Water treatment, Containment, Discharge(Water), Remedial action, California, "Record of Decision, Travis Air Force Base, Fairfield(California), Solano County(California), Volatile organic compounds, Natural attenuation, Cleanup operations.

PB99-964506REB PC A20/MF A04
Superfund Record of Decision (EPA Region 9): Camp Pendleton Marine Corps Base, Operable Unit 3, San Diego, CA., February 11, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 436p, EPA 541-R99-046.
See also PB96-964501 and PB97-964516.
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This Record of Decision (ROD) addresses 28 sites that constitute Operable Unit (OU) 3 at Marine Corps Base (MCB) Camp Pendleton, California. The same remedy, excavation and on-base disposal, was selected for Sites 1A, 1D, 1E, 1F, and 2A. An evaporation (ET) cover was selected as the final remedy for the Site 7 landfill closure. No action was selected for soil and groundwater at Sites 1B, 1C, 1I, 2C, 2D, 2F, 2G, 10, 18, 32, 34, 35, 36, 37, 38, 39, 40, 41, and 42. No action was also selected for soil, sediment, and surface water at Site 16 and for sediment and surface water at Sites 17 and 27.

Keywords: "Superfund, "Hazardous materials, "Land pollution control, Marine corps facilities, Landfills, Benzo-a-pyrene, Metals, Soil contamination, Waste disposal, Backfills, Covers, Environmental monitoring, Ground water, Surface waters, Sediments, Restrictions, Installation restoration, Remedial action,

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California, *Record of Decision, Camp Pendleton Marine Corps Base, San Diego(California), San Diego County(California), Cleanup operations.

PB99-964507REB PC A05/MF A01
Superfund Record of Decision (EPA Region 9): Koppers Company Inc. Site (Oroville Plant), Oroville, CA., September 23, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 60p, EPA 541-R99-094.
See also PB95-964507 and PB90-177833.
Paper copy available as an ongoing subscription, credit card payment accepted. Single copies also available in paper copy or microfiche. Product reproduced from digital image.

This decision document presents the U.S. Environmental Protection Agency's (EPA's) amended selected remedial actions for contaminated groundwater at the Koppers Company, Inc. (Koppers) site in Oroville, California. This ROD Amendment modifies the previously selected remedy for contaminated groundwater at the Koppers site. The revision affects both the cleanup standards and the cleanup technologies selected in the 1989 ROD for the site's single operable unit. Amendment No. 2 to the ROD provides for (1) a Technical Inapplicability (TI) Waiver due to Dense Nonaqueous-Phase Liquid (DNAPL) contamination, (2) adding enhanced in-situ bioremediation to the remedy to augment pentachlorophenol (PCP) destruction, and (3) adding Monitored Natural Attenuation (MNA) as a contingency remedy should enhanced in-situ bioremediation nutrient distribution not be fully achieved in the aquifers.

Keywords: *Superfund, *Hazardous materials, *Water pollution control, Pentachlorophenol, Ground water, Aquifers, Restrictions, Water pollution monitoring, California, *Record of Decision Amendment, *First Remedial Action, Cleanup operations, Oroville(California), Butte County(California), Dense nonaqueous phase liquids, Natural attenuation, Bioremediation.

PB99-964603REB PC A06/MF A01
Superfund Record of Decision (EPA Region 10): Vancouver Water Station No. 4 Contamination Site, Vancouver, WA., September 1, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 76p, EPA 541-R99-056.
See also PB98-964603.
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This decision document presents the selected final remedial action for Vancouver Water Station 4 (WS4) in Vancouver, Washington. The City of Vancouver's public water supply wells at WS4 are contaminated with tetrachloroethene (PCE). No ongoing source for the PCE in the groundwater has been identified for which cleanup action could be taken. Therefore a remedy that focuses on treatment of the drinking water produced from WS4 has been determined to represent the maximum extent to which permanent solutions and treatment technologies can be used in a cost-effective manner.

Keywords: *Superfund, *Hazardous materials, *Water pollution control, Water supply, Ground water, Extraction, Water treatment, Water utilities, Drinking water, Remedial action, Washington, *Record of decision, Vancouver(Washington), Clark County(Washington), Tetrachloroethene, Cleanup operations.

PB99-964604REB PC A05/MF A01
Superfund Record of Decision (EPA Region 10): Hanford Site-100 Area (USDOE) 100-KR-2 Operable Unit, Benton County, WA., September 17, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 56p, EPA 541-R99-059.
See also PB96-964603.
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This decision document presents the selected interim remedial action for the K basins in the U.S. Department of Energy (DOE) Hanford 100 Area, Hanford Site, Benton County, Washington. The selected remedy is an interim remedial action to mitigate the potential to release hazardous substances from the two 100-K Area spent nuclear fuel (SNF) storage basins. The major components of the selected remedy in this K Basins ROD consist of the following: Remove SNF from the K Basins; Remove sludge from the K Basins; Treat and remove water from the K Basins; Remove debris from the K Basins; Deactivate the basin; and institutional Controls.

Keywords: *Superfund, *Low-level radioactive wastes, *Radioactive waste disposal, *Water pollution control, Hanford Reservation, Alpha bearing wastes, Spent fuels, Debris, Removal, Surface waters, Water treatment, Sludge disposal, Restrictions, Remedial action, Washington, *Record of Decision, Benton County(Washington), Cleanup operations.

PB99-964605REB PC A15/MF A03
Superfund Record of Decision (EPA Region 10): Pacific Sound Resources (PSR) Site, Upland and Marine Sediments Operable Units, Seattle, WA., September 30, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 304p, EPA 541-R99-083.
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The Pacific Sound Resources (PSR) facility, formerly known as the Wyckoff West Seattle Wood Treating Facility, was located on the south shore of Elliott Bay in Puget Sound at 2801 S.W. Florida Street, Seattle, Washington. What was selected as early action is final action with the addition of the following: inspection and Maintenance (I&M) of the surface cap; monitoring groundwater and collection of NAPL; and institutional controls for prohibiting groundwater use and restricting land use. The Selected Remedy for the Marine Sediments Unit is: confinement through capping of contaminated marine sediments; five feet of clean cap material will be placed in the intertidal area; dredging of approximately 3,500 cubic yards of contaminated sediment to maintain navigational access; unused pilings will be removed; institutional controls to prohibit large anchor use in capped area; and monitoring cap placement and cap performance.

Keywords: *Superfund, *Hazardous materials, *Land pollution control, *Marine sediments, Polycyclic aromatic hydrocarbons, Heavy metals, Pentachlorophenol, Creosote, Soil contamination, Sludge disposal, Containment, Removal, Capping, Dredging, Waste disposal, Ground water, Puget Sound, Elliot Bay, Environmental monitoring, Restrictions, Remedial action, Washington, *Record of Decision, Seattle(Washington), King County(Washington), Nonaqueous phase liquids, Cleanup operations.

PB99-964606REB PC A23/MF A04
Superfund Record of Decision (EPA Region 10): Idaho National Engineering Laboratory (USDOE), Operable Unit 3-13, Idaho Falls, ID., September 28, 1999.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response. 1999, 516p, EPA 541-R99-095.
See also PB98-964602.
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The Idaho Nuclear Technology and Engineering Center (INTEC) (formerly the Idaho Chemical Processing Plant) Waste Area Group (WAG) 3 is one of 10 Idaho National Engineering and Environmental Laboratory (INEEL) WAGs identified in the Federal Facility Agreement and Consent Order (FFA CO) by the U.S. Department of Energy Idaho Operations Office (DOE-ID), the U.S. Environmental Protection Agency (EPA) Region 10, and the Idaho Department of Health and Welfare (IDHW). Operable Unit (OU) 3-13 is listed as the 'WAG 3 Comprehensive Remedial Investigation (RI) Feasibility Study (FS)' in the FFA/CO (DOE-ID 19991). The objective of the comprehensive RI/FS is to: (1) review previous WAG 3 investigations, (2) investigate release sites not previously evaluated, (3) determine the risks posed by individual release sites and the overall risk posed by the WAG, and (4) identify, screen, and analyze remedial alternatives for release sites where risks are determined to be greater than allowable levels.

Keywords: *Superfund, *Hazardous materials, *Land pollution control, *Low-level radioactive wastes, Idaho National Engineering Laboratory, Radioisotopes, Polychlorinated biphenyls, Buildings, Soil contamination, Excavation, Waste disposal, Backfills, Ground water, Aquifers, Waste storage, Water pollution monitoring, Storm water runoff, Drainage systems, Waste management, Restrictions, Remedial action, Idaho, *Record of Decision, Idaho Nuclear Technology and Engineering Center, Idaho National Engineering and Environmental Laboratory, Idaho Falls(Idaho), Bonneville County(Idaho), WAS(Waste Area Group), Cleanup operations.

ADA371078REB PC A03/MF A01
Membrane-Mediated Extraction and Biotreatment of VOCs. Annual rept.
Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab. N. Kaplan. 2 Dec 1998, 14p.
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The overall objective is to validate and further develop a cost-effective VOC control system for painting facilities that meets the requirements of the Aerospace NESHAP, an 81 percent reduction in VOCs from non-compliant coatings. This will be accomplished using the partitioned recirculation flow reduction technique and a novel VOC concentrating and biological treatment process.

Keywords: *Organic compounds, *Pollution abatement, Air pollution, Biology, Air flow, Cost estimates, Coatings, Volatility, Paints, Emission control, Recirculation, Biotreatment, Serdp collection, Serdp(Strategic environmental research and development program), Voc(Volatile organic compounds), Neshap(National emissions standards for hazardous air pollutants).

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KEYWORD INDEX

Index entries in this section are selected to indicate important ideas and concepts presented in a report. When using the keyword index, be sure to look under terms narrower, broader, or related to a particular topic. Although some of the keywords are not selected from a controlled vocabulary of terms, most of them have been selected from the DoD, DoE, NASA, or NTIS controlled vocabularies. The entries are arranged by keyword and then by the NTIS order number.

SAMPLE ENTRY

Use: Keywords Term		RECYCLED MATERIALS	
Title		Engineering and Environmental Aspects of Recycled Materials for Highway Construction	
NTIS Order Number/Media Code Price Codes		PB94-100443/REB	PC A10/MF A03

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Weapon Station (WPNSTA) Operable Units 8 and 9, York-
town, VA., June 9, 1999.
PB99-963906REB PC A07/MF A02
- EPA 541-R99-011**
Superfund Record of Decision (EPA Region 3): Naval
Weapons Station (WPNSTA), Operable Units 12, 13, 14,
and 15, Yorktown, VA., October 13, 1998.
PB99-963907REB PC A09/MF A02
- EPA 541-R99-012**
Superfund Record of Decision (EPA Region 3): Patuxent
River Naval Air Station Operable Unit 1 Soils, Pesticide
Shop (Site 17), St. Mary's County, MD., December 16,
1998.
PB99-963908REB PC A08/MF A02
- EPA 541-R99-013**
Superfund Record of Decision (EPA Region 3): Aberdeen
Proving Ground (Edgewood Area), Aberdeen Proving
Ground, MD., June 11, 1999.
PB99-963909REB PC A05/MF A01
- EPA 541-R99-014**
Superfund Record of Decision (EPA Region 3): USA Vint
Hill Farms Station, AREEs 2, 4, 28-5, and 31, Warrenton,
VA., July 1, 1999.
PB99-963910REB PC A06/MF A01
- EPA 541-R99-015**
Superfund Record of Decision (EPA Region 3): USA Vint
Hill Farms Station AREEs 3, 5, 7, 10, 1602, 17, 18, 20, 24,
25, 26, 29-1, 29-2, 29-3, 30, and 33, Warrenton, VA., July
1, 1999.
PB99-963911REB PC A07/MF A02
- EPA 541-R99-016**
Superfund Record of Decision (EPA Region 3): USA Vint
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VA., July 1, 1999.
PB99-963912REB PC A06/MF A01
- EPA 541-R99-017**
Superfund Record of Decision (EPA Region 3): USA Vint
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Warrenton, VA., July 1, 1999.
PB99-963913REB PC A06/MF A01
- EPA 541-R99-018**
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Warrenton, VA., July 1, 1999.
PB99-963914REB PC A05/MF A01
- EPA 541-R99-023**
Superfund Record of Decision (EPA Region 4): Marine
Corps Logistics Base, Operable Unit 4, Albany, GA., April 2,
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PB99-964005REB PC A07/MF A02
- EPA 541-R99-024**
Superfund Record of Decision (EPA Region 4): Jacksonville
Naval Air Station, Operable Unit 2, Jacksonville, FL., March
19, 1999.
PB99-964006REB PC A05/MF A01
- EPA 541-R99-025**
Superfund Record of Decision (EPA Region 4): Marzone
Inc/Chervon Chemical Company Site, Operable Unit 2,
Tifton, GA., July 1, 1999.
PB99-964007REB PC A07/MF A02
- EPA 541-R99-026**
Superfund Record of Decision (EPA Region 4): Stauffer
Chemical Company (LeMoyné Plant) Site, Operable Unit 2,
Axis, AL., March 18, 1999.
PB99-964008REB PC A05/MF A01
- EPA 541-R99-027**
Superfund Record of Decision (EPA Region 4): Ross Met-
als Inc., Operable Unit 1, Rossville, TN., April 2, 1999.
PB99-964009REB PC A15/MF A03
- EPA 541-R99-028**
Superfund Record of Decision (EPA Region 2): Welsbach
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PB99-963801REB PC A13/MF A03
- EPA 541-R99-029**
Superfund Record of Decision (EPA Region 7): Ogallala
Ground Water Contamination Site, Operable Unit 1,
Ogallala, NE., April 23, 1999.
PB99-964301REB PC A10/MF A02
- EPA 541-R99-030**
Superfund Record of Decision (EPA Region 7): Ace Ser-
vices Site, Colby, KS., May 5, 1999.
PB99-964302REB PC A06/MF A01
- EPA 541-R99-031**
Superfund Record of Decision (EPA Region 7): Lake City
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PB99-964502REB PC A07/MF A02
- EPA 541-R99-046**
Superfund Record of Decision (EPA Region 9): Camp Pen-
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Superfund Record of Decision (EPA Region 3): Defense General Supply Center (DLA), Operable Unit 4, Chesterfield County, VA., August 31, 1999.
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Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Ford Building Waste Unit (643-11G), Operable Unit 57, Aiken, SC., May 20, 1999.
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Superfund Record of Decision (EPA Region 8): California Gulch Site, Operable Unit 9, Leadville, CO., September 2, 1999.
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- EPA 541-R99-060**
Superfund Record of Decision (EPA Region 3): Langley Air Force Base/NASA Langley Center, Operable Unit 50, Hampton, VA., September 27, 1999.
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- EPA 541-R99-061**
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- EPA 541-R99-063**
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- EPA 541-R99-077**
Superfund Record of Decision (EPA Region 5): Jennison Wright Corporation Inc. Site, Granite City, IL., September 29, 1999.
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- EPA 541-R99-078**
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- EPA 541-R99-083**
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Superfund Record of Decision (EPA Region 2): Imperial Oil Company/Champion Chemical Company Site, Operable Unit 3, Morganville, N.J., September 30, 1999.
PB99-963806REB PC A14/MF A03

PB99-963901REB

Superfund Record of Decision (EPA Region 3): USA Fort George G. Meade (TAP) Operable Unit, Fort Meade, MD., July 20, 1999.
PB99-963901REB PC A04/MF A01

PB99-963903REB

Superfund Record of Decision (EPA Region 3): Langley Air Force Base, NASA Langley Center, Operable Unit 42, Hampton, VA., January 14, 1999.
PB99-963903REB PC A05/MF A01

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Superfund Record of Decision (EPA Region 3): Boarhead Farm Site, Bridgeton Township, PA., November 18, 1998.
PB99-963905REB PC A07/MF A02

PB99-963906REB

Superfund Record of Decision (EPA Region 3): Naval Weapon Station (WPNSTA) Operable Units 8 and 9, Yorktown, VA., June 9, 1999.
PB99-963906REB PC A07/MF A02

PB99-963907REB

Superfund Record of Decision (EPA Region 3): Naval Weapons Station (WPNSTA), Operable Units 12, 13, 14, and 15, Yorktown, VA., October 13, 1998.
PB99-963907REB PC A09/MF A02

PB99-963908REB

Superfund Record of Decision (EPA Region 3): Patuxent River Naval Air Station Operable Unit 1 Soils, Pesticide Shop (Site 17), St. Mary's County, MD., December 16, 1998.
PB99-963908REB PC A08/MF A02

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Superfund Record of Decision (EPA Region 3): Aberdeen Proving Ground (Edgewood Area), Aberdeen Proving Ground, MD., June 11, 1999.
PB99-963909REB PC A05/MF A01

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PB99-963910REB PC A06/MF A01

PB99-963911REB

Superfund Record of Decision (EPA Region 3): USA Vint Hill Farms Station AREEs 3, 5, 7, 10, 1602, 17, 18, 20, 24, 25, 26, 29-1, 29-2, 29-3, 30, and 33, Warrenton, VA., July 1, 1999.
PB99-963911REB PC A07/MF A02

PB99-963912REB

Superfund Record of Decision (EPA Region 3): USA Vint Hill Farms Station AREEs 9, 11, 19, and 21, Warrenton, VA., July 1, 1999.
PB99-963912REB PC A06/MF A01

PB99-963913REB

Superfund Record of Decision (EPA Region 3): USA Vint Hill Farms Station AREEs 13, 14, 16-1, 27, and 29-4, Warrenton, VA., July 1, 1999.
PB99-963913REB PC A06/MF A01

PB99-963914REB

Superfund Record of Decision (EPA Region 3): USA Vint Hill Farms Station, Western South Run Tributary, Warrenton, VA., July 1, 1999.
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PB99-963915REB PC A05/MF A01

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Superfund Record of Decision (EPA Region 3): Defense General Supply Center (DLA), Operable Unit 4, Chesterfield County, VA., August 31, 1999.
PB99-963916REB PC A06/MF A01

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Superfund Record of Decision (EPA Region 3): Langley Air Force Base/NASA Langley Center, Operable Unit 50, Hampton, VA., September 27, 1999.
PB99-963917REB PC A05/MF A01

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Superfund Record of Decision (EPA Region 3): Naval Surface Warfare Dahlgren, Sites 19 and 29, Operable Units 13 and 14, Dahlgren, VA., September 27, 1999.
PB99-963918REB PC A06/MF A01

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Superfund Record of Decision (EPA Region 3): Rodale Manufacturing Company, Inc., Site Operable Unit 1, Emmaus Borough, PA., September 30, 1999.
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Superfund Record of Decision (EPA Region 3): Naval Air Development Center (8 Areas) Operable Unit 5, Site 8, Warminster Township, PA., September 29, 1999.
PB99-963922REB PC A04/MF A01

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Superfund Record of Decision (EPA Region 3): Patuxent River Naval Station, Operable Unit 1 Soils Bohneyard (Sites 6 and 6A), St. Mary's County, MD., September 29, 1999.
PB99-963923REB PC A06/MF A01

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For Immediate Release

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Vital EPA Acid Rain Hourly Emissions Data on CD-ROM

Available at the National Technical Information Service

The EPA Acid Rain Program harnesses the power of the free market to encourage electric utilities to reduce pollution and the effects of acid rain. Its success is proven by the data EPA has collected under 40 CFR 75, which is now available to the public from the National Technical Information Service. *Acid Rain Hourly Emissions Data on CD-ROM* contains the hourly emissions level of sulfur dioxide, nitrogen oxide, and carbon dioxide from each regulated fossil fuel-fired power plant unit. Also covered on the data file is general operating data, including operating time, heat input, and gross unit load. There is information on the unit's monitoring plan, and the results of tests required to be performed by the source to ensure that its monitoring equipment is functioning properly.

After analysis, the emissions data showed the following dramatic results, which were announced in the Acid Rain Program's 1997 Compliance Report available from NTIS as PB99-122152KOE, \$29.50:

- 100% compliance with both SO₂ and NO_x 1997 emission targets
- 1997 SO₂ emissions were reduced to 23% below allowable levels
- 1997 NO_x emission rates were 41% below allowable levels

Electric utility specialists and energy consultants use this EPA acid rain program emissions data to project future SO₂ allowance costs and availability. Academic institutions can perform data modeling to evaluate environmental benefits and estimate health effects of SO₂ reductions. EPA uses it to correlate the reduction of SO₂ emissions with a decrease in acid precipitation.

Acid Rain Hourly Emissions Data (Raw Data File) is available on subscription from NTIS, 1-800-363-2068 or (703) 605-6060, for \$384; quote order number SUB-5431KOE. Single issues also available. Most major credit cards accepted. Order via e-mail: orders@ntis.fedworld.gov. Fax order to: (703) 605-6880. Access information on more than 400,000 government information products on the NTIS Web site: <http://www.ntis.gov>.

The National Technical Information Service is the federal government's central source for the sale of scientific, technical, engineering, and related business information produced by or for the U.S. government and complementary material from international sources. Nearly 3 million products are available from NTIS in a variety of formats, including microfiche, paper, diskette, audiovisual, CD-ROM, and online.



NTIS Price Schedules

NTIS frequently uses price codes to indicate the cost of items sold. The following schedules convert these codes into actual prices.

For Customers within the U.S., Canada, and Mexico

Microfiche & Paper Copy Reports

	<u>Standard Prices</u>	<u>Out-of-Print Prices</u>	<u>Exception Prices</u>
A01*	\$ 8.00	\$ 10.00	E01 \$ 16.00
A02*	\$12.00	\$ 15.00	E02 \$ 20.00
A03	\$23.00	\$ 28.50	E03 \$ 22.00
A04	\$25.50	\$ 31.50	E04 \$ 26.00
A05	\$27.00	\$ 34.00	E05 \$ 29.00
A06	\$29.50	\$ 36.50	E06 \$ 32.00
A07	\$33.00	\$ 41.00	E07 \$ 36.00
A08	\$36.00	\$ 45.00	E08 \$ 40.00
A09	\$41.00	\$ 51.00	E09 \$ 44.00
A10	\$44.00	\$ 54.50	E10 \$ 48.00
A11	\$47.00	\$ 58.50	E11 \$ 52.00
A12	\$51.00	\$ 63.00	E12 \$ 57.00
A13	\$54.00	\$ 67.50	E13 \$ 61.00
A14	\$56.00	\$ 70.00	E14 \$ 66.00
A15	\$58.00	\$ 72.50	E15 \$ 71.00
A16	\$60.00	\$ 75.00	E16 \$ 78.00
A17	\$62.00	\$ 77.50	E17 \$ 85.00
A18	\$65.50	\$ 81.50	E18 \$ 91.00
A19	\$67.50	\$ 84.00	E19 \$101.00
A20	\$69.50	\$ 86.50	E20 \$116.00
A21	\$71.50	\$ 89.00	E99 Contact NTIS
A22	\$77.00	\$ 96.00	
A23	\$79.00	\$ 98.50	
A24	\$81.00	\$101.00	
A25	\$83.00	\$103.50	
A99	Contact NTIS		
			<u>*N* Codes</u>
			N01 \$65.00
			N02 \$59.00
			N03 \$25.00

* A01 for standard microfiche is \$12.00; \$15.00 for out-of-print microfiche.

* A02 for standard microfiche is \$17.00; \$21.00 for out-of-print microfiche.

Computer Products

D01	\$ 69.00	T01	\$ 224.00
D02	\$ 112.00	T02	\$ 305.00
D03	\$ 175.00	T03	\$ 454.00
D04	\$ 244.00	T04	\$ 604.00
D05	\$ 313.00	T05	\$ 742.00
D06	\$ 370.00	T06	\$ 891.00
D07	\$ 451.00	T07	\$1,029.00
D08	\$ 508.00	T08	\$1,179.00
D09	\$ 566.00	T09	\$1,317.00
D10	\$ 646.00	T10	\$1,455.00
D11	\$ 704.00	T11	\$1,593.00
D12	\$ 784.00	T12	\$1,742.00
D13	\$ 853.00	T13	\$1,880.00
D14	\$ 922.00	T14	\$2,030.00
D15	\$ 980.00	T15	\$2,179.00
D16	\$1,037.00	T16	\$2,317.00
D17	\$1,106.00	T17	\$2,444.00
D18	\$1,175.00	T18	\$2,605.00
D19	\$1,244.00	T19	\$2,743.00
D99	Contact NTIS		T99 Contact NTIS

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Standard A-code priced documents announced by NTIS over three years ago are subject to a 25% out-of-print surcharge. The out-of-print price for such items is shown to the right of the standard price in these price schedules. Frequently, these reports have an NTIS order number of 96 or earlier (e.g., N96-xxxxx; PB95-xxxxx; DE94-xxxxx; etc.). If the NTIS order number for an A-code priced report does not show an identifiable year (e.g., most AD-prefixed items), contact the NTIS Sales Desk 1-800-553-NTIS (6847) or (703) 605-6000 or fax (703) 605-6900 for the correct price.

Prices are subject to change.

For Customers outside the U.S., Canada, and Mexico

Microfiche & Paper Copy Reports

	<u>Standard Prices</u>	<u>Out-of-Print Prices</u>	<u>Exception Prices</u>
A01*	\$ 16.00	\$ 20.00	E01 \$ 32.00
A02*	\$ 24.00	\$ 30.00	E02 \$ 40.00
A03	\$ 46.00	\$ 58.00	E03 \$ 44.00
A04	\$ 51.00	\$ 64.00	E04 \$ 52.00
A05	\$ 54.00	\$ 68.00	E05 \$ 58.00
A06	\$ 59.00	\$ 74.00	E06 \$ 64.00
A07	\$ 66.00	\$ 83.00	E07 \$ 72.00
A08	\$ 72.00	\$ 90.00	E08 \$ 80.00
A09	\$ 82.00	\$103.00	E09 \$ 88.00
A10	\$ 88.00	\$110.00	E10 \$ 96.00
A11	\$ 94.00	\$118.00	E11 \$104.00
A12	\$102.00	\$128.00	E12 \$114.00
A13	\$108.00	\$135.00	E13 \$122.00
A14	\$112.00	\$140.00	E14 \$132.00
A15	\$116.00	\$145.00	E15 \$142.00
A16	\$120.00	\$150.00	E16 \$156.00
A17	\$124.00	\$155.00	E17 \$170.00
A18	\$131.00	\$164.00	E18 \$182.00
A19	\$135.00	\$169.00	E19 \$202.00
A20	\$139.00	\$174.00	E20 \$232.00
A21	\$143.00	\$179.00	E99 Contact NTIS
A22	\$154.00	\$193.00	
A23	\$158.00	\$198.00	
A24	\$162.00	\$203.00	
A25	\$166.00	\$208.00	
A99	Contact NTIS		
			<u>"N" Codes</u>
			N01 \$85.00
			N02 \$75.00
			N03 \$50.00

* A01 for standard microfiche is \$20.00; \$25.00 for out-of-print microfiche.

* A02 for standard microfiche is \$28.00; \$35.00 for out-of-print microfiche.

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D03	\$ 350.00	T03	\$ 908.00
D04	\$ 488.00	T04	\$1,208.00
D05	\$ 626.00	T05	\$1,484.00
D06	\$ 740.00	T06	\$1,782.00
D07	\$ 902.00	T07	\$2,058.00
D08	\$1,016.00	T08	\$2,358.00
D09	\$1,132.00	T09	\$2,634.00
D10	\$1,292.00	T10	\$2,910.00
D11	\$1,408.00	T11	\$3,186.00
D12	\$1,568.00	T12	\$3,484.00
D13	\$1,706.00	T13	\$3,760.00
D14	\$1,844.00	T14	\$4,060.00
D15	\$1,960.00	T15	\$4,358.00
D16	\$2,074.00	T16	\$4,634.00
D17	\$2,212.00	T17	\$4,888.00
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D19	\$2,488.00	T19	\$5,486.00
D99	Contact NTIS		T99 Contact NTIS

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New Data Bank Describes Workplace Chemicals

Multiple Databases from Worldwide Sources Available on CD-ROM

A new CD-ROM, which contains a vast array of reference databases describing chemicals used in the workplace, is now available from the National Technical Information Service. Industry safety officers, plant managers, chemical engineers, firefighters, and emergency medical staff will find this material invaluable.

The *International Chemical Information Database* provides a comprehensive, single data bank of general chemical, industrial hygiene, and safety information. Updated quarterly, ICID has over 150,000 chemical entries from more than 24 worldwide sources. Each of these entries is provided as published by its source for unbiased, accurate information on each substance.

The ICID system saves time by allowing the user to search all of the databases simultaneously, or each individually. Quick and easy searching by chemical name or words or phrases often results in multiple entries from different points of view displaying the following chemical information: chemical formulas, ID codes, synonyms, exposure limits, medical & emergency treatment, signs and symptoms of exposure, fire fighting data and much more.

A partial list of database sources within the ICID include:

- Center For Disease Control
- Department of Energy
- International: Australian Fact Sheets, UK EH 40/98 Chemical Listing and Canadian -- DSL + NDSL
- Department of Transportation
- Environment Protection Agency
- OSHA
- National Toxicology Program

International Chemical Information Database (ICID) (single user) (on CD-ROM) is available from NTIS, 1-800-363-2068 or (703) 605-6060, for \$500 for a single issue; quote order number SUB-5443KOC. Subscription and LAN pricing available. Most major credit cards accepted. For more information and to order online, visit www.ntis.gov/fcpc. Order via E-mail: orders@ntis.fedworld.gov. Fax order to: (703) 605-6880.

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