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EPA

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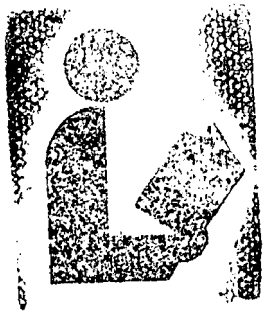
Quarterly Abstract Bulletin



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QUARTERLY ABSTRACT BULLETIN

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CONTENTS

About this Bibliography ii
New EPA Document Numbering System iv
About NTIS v
EPA Library Network vi
Reports Summaries 1
Title Index TI-1
Keyword Index KW-1
Sponsoring EPA Office Index SO-1
Corporate Author Index CA-1
Personal Author Index PA-1
Contract/Grant Number Index CG-1
NTIS Order/Report Number Index OR-1
Price Codes ..... At end
Order Forms ..... At end

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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

PB98-964103REB PC A08/MF A02
Superfund Record of Decision (EPA Region 5): Byron Salvage Yard, Byron, IL., September 24, 1998.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Nov 1998, 134p, EPA 541-R98-090.
Portions of this report are not fully legible.
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 selected remedial action for the soil component of Operable Unit No. 4 at the Byron Salvage Yard site (Byron) in Byron, Illinois. The major components of the selected remedy include: (1) Soil cover consisting of a rooting zone layer spread over the metal-contaminated soil areas; (2) Surface control technologies such as grading and revegetation; (3) Institutional controls such as access and deed restrictions; (4) Soil excavation for the VOC-contaminated soils; (5) Disposal and transport of the VOC-contaminated soils to Subtitle D landfill; (6) Removal and disposal of three drums of waste from property adjacent to the Byron Salvage Yard; Removal of the fence at the Byron Salvage Yard property after completion of soil cover and implementation of the institutional controls (Items 1, 2, abd 3 from above) and reinstallation of the fence near Meyer's Pond.

Keywords: *Superfund, *Hazardous materials, *Land pollution control, Metals, Mercury(Metal), Copper, Chromium, Zinc, Lead(Metal), Cyanide, Toluene, Ethyl benzene, Exylenes, Drums(Containers), Soil contamination, Excavation, Removal, Waste disposal, Coverings, Revegetation, Restrictions, Remedial action, Illinois, *Record of Decision, Byron(Illinois), Ogle County(Illinois), Volatile organic compounds, Cleanup operations.

PB98-964202REB PC A11/MF A03
Superfund Record of Decision (EPA Region 6): Longhorn Army Ammunition Plant, group 1 Sites, Karnack, TX., January 23, 1998.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Oct 1998, 214p, EPA 541-R98-075.
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This decision document presents the selected No Further Action alternative for Group 1 Sites, Longhorn Army Ammunition Plant (LHAAP), In Karnack, Texas. The public comment period for the Group 1 Sites No Further Action Proposed Plan ended August 20, 1997. During the public comment period, the Army received four comments. These comments were in regards to future excising of the facility property, PCB's (no PCB's found), off-site sampling, and the area's regional water supply.

Keywords: *Superfund, *Hazardous materials, *Waste management, Army facilities, Munitions industry, Soils, Burning, Residues, Explosives, TNT, Remedial action, Site characterization, Texas, *Record of Decision, Longhorn Army Ammunition Plant, Karnack(Texas), Harrison County(Texas).

PB99-111403REB PC A13/MF A03
Enhanced Coagulation and Enhanced Precipitative Softening Guidance Manual.
Environmental Protection Agency, Washington, DC. Office of Water.
May 1999, 266p, EPA/815/R-99/012.
See also PB95-100392.
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The manual provides public water systems and drinking water agencies with guidance for complying with the enhanced coagulation and enhanced precipitative softening treatment technique contained in the Stage 1 Disinfectants and Disinfection Byproducts Rue (DBPR). This process seeks to remove natural organic matter (NOM) from drinking water, which is a major factor in the formation of disinfection byproducts (DBPs). Appendices include: DBP Precursor Removal Processes and Other DBP Precursor Removal Technologies.

Keywords: *Coagulation, *Water softeners, *Precipitation(Chemistry), *Water systems, *Manuals, Disinfectants, Byproducts, Drinking water, Water treatment plants, Disinfection, Microorganism control(Water), Removal, Precursors, Sedimentation, Flocculation, Organic matter, Water pollution control, Water quality management, Compliance.

PB99-111452REB PC A20/MF A04
Guidance Manual for Conducting Sanitary Surveys of Public Water Systems; Surface Water and Ground Water under the Direct Influence (GWUDI) of Surface Water.
Environmental Protection Agency, Washington, DC. Office of Water.
Apr 1999, 442p, EPA/815/R-99/016.
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The manual provides guidance on how to conduct a sanitary survey of surface water and ground water under the direct influence (GWUDI) of surface water drinking water systems. Four principal stages of this process are discussed in detail: planning a sanitary survey, conducting the on-site survey, compiling a sanitary survey report and performing follow-up activities. The document also describes how to identify assessment criteria to be evaluated for sanitary risks, and significant deficiencies which may pose an immediate health risk. Appendix A contains sample sanitary checklists used by States and EPA regional offices.

Keywords: *Surface-groundwater relationships, *Water quality, *Drinking water, *Disinfection, *Byproducts, Surface waters, Ground water, Base flow, Subsurface flow, Water sampling, Disinfectants, Public utilities, Water systems, Risk assessment, Health hazards, Sanitary enginering, Surveys, Manuals.

PB99-111478REB PC A06/MF A01
Uncovered Finished Water Reservoirs. Guidance Manual. Final rept.
Environmental Protection Agency, Washington, DC. Office of Water.
Apr 1999, 90p, EPA/815/R-99/011.
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The purpose of this document is to provide a basic understanding of the potential sources of external contamination in uncovered finished water reservoirs and to provide guidance to water treatment operators for evaluating and maintaining water quality in these reservoirs. To achieve these objectives, this document discusses: existing regulations and policies pertaining to uncovered reservoirs; developing a reservoir management plan; potential sources of water quality degradation and contamination; operation and maintenance of reservoirs to maintain water quality; and mitigating potential water quality degradation. This guidance document is based on a review of current literature and includes case studies of four large potable water utilties in the United States.

Keywords: *Reservoirs, *Impounded waters, *Water quality management, *Manuals, Surface impoundments, Reservoir operators, Maintenance, Potable water, Drinking water, Water treatment plants, Water pollution abatement, Water pollution control, Water pollution monitoring, Hydraulics, Byproducts, Disinfectants, Disinfection, Case studies, Surface Water Treatment Rule.

PB99-127995REB PC A09/MF A02
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
Degradation of Emissions Control Performance of Wood Stoves in Crested Butte, CO. Final rept. Jul 97-Jun 98.
Energy and Emissions Consulting, Inc., Blacksburg, VA.
M. Champion, and D. R. Jaasma. Nov 1998, 166p, EPA/600/R-98/158.
Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
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The report discusses the degradation of emissions control performance of woodstoves in Crested Butte, Colorado. Four seasons of field monitoring of EPA-certified woodstoves in and around Crested Butte has demonstrated some significant failures in emissions control performance. This study examined certified stove performance degradation with two complementary approaches. In the first approach, 12 used stoves in the Crested Butte database, identified with poor, inconsistent, or otherwise 'interesting' performance, were inspected, removed from their installations, and then subjected to emissions testing under simulated field conditions in a laboratory. These tests examined the stoves and demonstrated that only two of them were physically degraded to where emissions control technology was ineffective. In the second approach, four new stoves were purchased and the emissions performance examined under a test matrix of fuel species, fuel moisture content, and firing rate.

Keywords: *Air pollution control, *Emission control, *Wood burning appliances, *Stoves, *Combustion products, Air pollution sources, Combustion efficiency, Burning rate, Wood fuels, Degradation, Emission factors, Air pollution monitoring, Performance evaluation, *Crested Butte(Colorado).

PB99-131005REB PC A99/MF E14
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Secondary Aluminum Industry Final Emissions Test Report. Culp Aluminum Alloys, Steele, Alabama. Final rept.
Eastern Research Group, Inc., Lexington, MA.
Jun 1999, 1268p, EPA/454/R-99/018.
Contract EPA-68-D7-0001
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The purpose of this testing program was to obtain emissions data for uncontrolled and controlled hydrochloric acid (HCl), particulate matter (PM) and speciated hydrocarbon Hazardous Air Pollutants (HAPs) from a secondary aluminum processing plant to support a national emission standard for hazardous air pollutants (NESHAP).

Keywords: *Aluminum industry, *Secondary materials industry, *Air pollution sampling, Metal scrap, Emissions, Air pollution monitoring, Hydrochloric acid, Hydrocarbons, Particulates, Particle size, Furans, Dioxins, Chemical analysis, Analytical methods, Fourier transform infrared spectroscopy, Data collection, Data analysis, Quality control, Tables(Data), Graphs(Charts), *NESHAP(National Emissions Standards for Hazardous Air Pollutants), Steele(Alabama), MACT(Maximum Achievable Control Technology), EPA Methods.

PB99-139677REB PC A08/MF A02
National Risk Management Research Lab., Ada, OK. Subsurface Protection and Remediation Div.
Biotransformation of Gasoline-Contaminated Groundwater under Mixed Electron-Acceptor Conditions. Final rept.
Waterloo Univ. (Ontario).
J. R. Barbaro, B. J. Butler, and J. F. Barker. Feb 1999, 142p, EPA/600/R-99/012.
Grant EPA-R-821887
Sponsored by National Risk Management Research Lab., Ada, OK. Subsurface Protection and Remediation Div.
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This report summarizes research conducted using both laboratory batch microcosms and field-scale sheet-piling cells to evaluate whether bioremediation of monoaromatic fuel hydrocarbons can be enhanced using mixed rather than single electron acceptors. The studies focused on nitrate for anaerobic bioremediation and oxygen for aerobic bioremediation, and experiments were designed to test the hypothesis that low levels of oxygen may enhance biodegradation of more recalcitrant compounds (such as benzene) under denitrifying conditions. The findings from this project are directly applicable to the field-scale remediation of subsurface environments contaminated by petroleum hydrocarbons.

Keywords: *Gasoline, *Ground water, *Water pollution control, *Electron acceptors, Hydrocarbons, Petroleum products, Benzene, Nitrates, Anaerobic conditions, Oxygen, Aerobic conditions, Biodegradation, Microorganisms, Denitrification, Microcosms, *Biotransformation, Bioremediation.

PB99-144248REB PC A08/MF A02
National Risk Management Research Lab., Cincinnati, OH.
Demonstration and Evaluation of Technologies for Determining the Stability of USTs for Upgrading with Cathodic Protection. Project rept. 1 Oct 93-31 Dec 96.
IT Corp., Cincinnati, OH.
J. D. Flora. Apr 1999, 138p, EPA/600/R-99/037.
Contract EPA-68-C5-0108
See also PB98-141963. Prepared in cooperation with Midwest Research Inst., Kansas City, MO. Sponsored by National Risk Management Research Lab., Cincinnati, OH.
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Field applications of three alternate technologies for assessing the suitability of underground storage tanks for upgrading by the addition of cathodic protection were observed and documented. The technologies were applied to five existing underground storage tanks that were slated for removal. Noninvasive statistical modeling, invasive inspection by remote video camera, and invasive internal inspection were applied to each of the tanks. Three vendors applied their individual statistical modeling approaches to assess the suitability of the tanks for upgrading with cathodic protection. One vendor demonstrated remote video camera inspection technology, and another conducted an inte5rnal inspection by entering the tanks. After all of the technology assessments were conducted, the tanks were removed and inspected both externally and internally by non-destructive and destructive means to determine their actual condition. The determinations made using the alternate technologies were then compared to the actual condition of the tanks.

Keywords: *Underground storage, *Storage tanks, *Nondestructive testing, *Destructive testing, *Inspection, Remote viewing equipment, Internal, Upgrading, Cathodic protection, Suitability, Statistical models, Technology assessment, Field tests, Demonstration programs.

PB99-146920REB PC A06/MF A01
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
Characterization of Low-VOC Latex Paints: Volatile Organic Compound Content, VOC and Aldehyde Emissions, and Paint Performance. Final rept. Jan 97-Jan 99.
ARCADIS Geraghty and Miller, Inc., Research Triangle Park, NC.
R. Fortmann, H. C. Lao, A. Ng, and N. Roache. Apr 1999, 92p, EPA/600/R-99/035.
Contract EPA-68-C9-9201
See also PB90-127374. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
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The report gives results of laboratory tests to evaluate commercially available latex paints advertised as 'low-odor,' 'low-VOC (volatile organic compound),' or 'no-VOC.' Measurements were performed to quantify the total content of VOCs in the paints and to identify the predominant VOCs and aldehydes in the emissions following application to test substrates. The performance of the paints was evaluated and compared to that of commonly used conventional latex paints by American Society for Testing and Materials (ASTM) standard methods that measured parameters such as scrubbability, cleanability, and hiding power. The report describes the paints that were tested, the test methods, and the experimental data. Results are presented that can be used to evaluate the low-odor/low-VOC paints as alternatives to conventional latex wall paints that contain and emit higher concentrations of VOCs.

Keywords: *Latex, *Paints, *Aldehydes, *Emissions, *Air pollution abatement, Alternatives, Materials replacement, Characterization, Performance evaluation, Indoor air pollution, Substrates, Volatility, Test methods, Test chambers, *Volatile organic compounds, Pollution prevention.

PB99-146938REB PC A12/MF A03
Environmental Protection Agency, Research Triangle Park, NC. National Exposure Research Lab.
Lower Rio Grande Valley Transboundary Air Pollution Project (TAPP). Project rept. 1996-97.
ManTech Environmental Technology, Inc., Research Triangle Park, NC.
S. Mukerjee, D. S. Shadwick, K. E. Dean, L. J. Purdue, L. Y. Carmichael, and J. J. Bowser. Apr 1999, 244p, EPA/600/R-99/047.
Contracts EPA-68-D2-0134, EPA-68-D5-0049
Prepared in cooperation with Texas Natural Resource Conservation Commission, Austin. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. National Exposure Research Lab.
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The Lower Rio Grande Valley Transboundary Air Pollution Project (TAPP) was a U.S.-Mexico Border XXI project to find out if air pollutants were moving across the border from Mexico into the Lower Rio Grande Valley of Texas and to see what levels of air pollutants were present. Ambient measurements and meteorology were collected data for a year (March 1996-March 1997) at three fixed sites in and near Brownsville, Texas very close to the U.S.-Mexico border on a continuous and 24-h internal basis. Overall levels of air pollution were similar to or lower than other areas in Texas and elsewhere. Based on wind sector analyses, transport of air pollution across the border did not appear to adversely impact air quality on the U.S. side of the Valley. Southeasterly winds from the Gulf of Mexico were largely responsible for the clean air conditions.

Keywords: *United States, *Mexico, *Boundaries, *Air pollution monitoring, *Atmospheric transport, Rio Grande River, River basins, Texas, Environmental transport, Air pollutants, Air pollution sampling, Plumes, Particulates, Hydrocarbons, Carbon, Pesticides, Ecological concentration, Wind direction, Meteorological data, Temporal variations, Volatile organic compounds.

PB99-146995REB PC A07/MF A02
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
Emissions from Street Vendor Cooking Devices (Charcoal Grilling). Final rept. Jan 98-Mar 99.
ARCADIS Geraghty and Miller, Inc., Research Triangle Park, NC.
S. Y. Lee. Jun 1999, 118p, EPA/600/R-99/048.
Contracts EPA-68-D4-0005, EPA-68-C-99-201
See also PB90-200288. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div. and United States-Mexico Centro de Informacion sobre Contaminacion de Aire, Research Triangle Park, NC.
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The report discusses a joint U.S./Mexican program to establish a reliable emissions inventory for street vendor cooking devices (charcoal grilling), a significant source of air pollutants in the Mexicali-Imperial Valley area of Mexico. Emissions from these devices, prevalent in the streets of Mexicali, Mexico, were investigated experimentally by measuring levels of particulate matter, particle size distributions, volatile and semivolatile organic compounds, aldehydes, and oxides of nitrogen and sulfur, emitted when meat is cooked on a grill over a charcoal fire. To investigate the emission rate, both beef and chicken were tested. Furthermore, both meats were marinated with a mixture similar to that used by the street vendors. Some tests were conducted with non-marinated beef for comparison. Two blank runs were performed sampling charcoal fires without meat. Finally, a simple control device, normally used in an exhaust fan to trap grease over a kitchen stove, was evaluated for its effectiveness in reducing emissions.

Keywords: *Emissions, *Charcoal, *Cooking devices, *Combustion products, *Air pollution monitoring, Beef(Meat), Poultry meat, Fires, Nitrogen oxides, Sulfur oxides, Particulates, Particle size distribution, Mexico, *Grills, *Emission inventories, Marinades, Grease traps, Grilling, Emission rates, Volatile organic compounds, Semivolatile organic compounds.

PB99-147589REB PC A08/MF A02
Appendix B: SO2, NOx, CO2, and Heat Input Data for 1997.
Environmental Protection Agency, Washington, DC. 1999, 142p.
Color illustrations reproduced in black and white. See also PB99-147571.
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Established under Title IV of the Clean Air Act Amendments of 1990, the Acid Rain Program requires the electric utility industry to reduce emissions of sulfur di-

oxide (SO2) and nitrogen oxides (NOx), the pollutants that cause acid rain. To ensure that the desired emission reductions are achieved, the program implements an innovative market-based regulatory approach with utilities having flexible compliance options. After each calendar year, EPA determines the compliance of each facility relating to its SO2 and NOx emissions requirements and publishes a report documenting the results.

Keywords: *Air pollution monitoring, *Electric utilities, *Standards compliance, *Trends, Emission control, Air pollution control, Air pollution abatement, Electric power industry, Sulfur dioxide, Nitrogen oxides, Carbon dioxide, Air pollution sources, Fossil-fuel power plants, Coal-fired gas turbines, Boilers, Combustion products, Data collection, Data analysis, Tables(Data), *Acid rain program, *Emissions tracking system, Continuous emissions monitoring, Heat input, Emission rates, Clean Air Act Amendments of 1990.

PB99-150286REB PC A07/MF A02
Environmental Protection Agency, Washington, DC. Acid Rain Div.
EPA Flow Reference Method Testing and Analysis: Findings Report.
Cadmus Group, Inc., Durham, NC.
Jun 1999, 118p, EPA/430/R-99/009A.
Contract EPA-68-D7-0061
See also Appendices, PB99-150294. Sponsored by Environmental Protection Agency, Washington, DC. Acid Rain Div.
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This report describes an experimental program sponsored by the U.S. Environmental Protection Agency (EPA) to evaluate potentia improvements to the Agency's current reference method for measuring volumetric flow (Method 2, 40 CFR Part 60, Appendix B). Method 2 (Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube)) specifies measurements to determine volumetric flow, but does not prescribe specific procedures to account for yaw or pitch angles of flow when the flow in the stack is not axial. Method 2 also allows the use of only two probe types, the Type S and the Prandtl.

Keywords: *Flue gases, *Air pollution monitors, *Volume, *Velocity, *Flow rates, *Electric power plants, Emissions, Stack gases, Air pollution sampling, Gas flow, Angles, Yaw, Pitch(Motion), Flow measurement, Flow characteristics, Test methods, Electric utilities, Probes, Field tests, Air pollution effects, Acid rain, *EPA Method 2, CEMS(Continuous Emission Monitoring Systems), Acid Rain Program.

PB99-150294REB PC A99/MF E11
Environmental Protection Agency, Washington, DC. Acid Rain Div.
EPA Flow Reference Method Testing and Analysis: Findings Report. Appendices.
Cadmus Group, Inc., Durham, NC.
Jun 1999, 1038p, EPA/430/R-99/009B.
Contract EPA-68-D7-0061
See also PB99-150286. Sponsored by Environmental Protection Agency, Washington, DC. Acid Rain Div.
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In the summer of 1997, the U.S. Environmental Protection Agency (EPA) conducted a series of week-long field tests at three electric utility sites to evaluate potential improvements to Method 2, EPA's test method for measuring flue gas volumetric flow in stacks. The findings from that study are presented in document EPA/430-R-99-009a (NTIS Order Number PB99-150286). This document contains 10 appendices for that report.

Keywords: *Flue gases, *Air pollution monitors, *Volume, *Flow rates, *Electric power plants, Emissions, Stack gases, Air pollution sampling, Gas flow, Angles, Yaw, Pitch(Motion), Flow measurement, Flow characterisitcs, Test methods, Electric utilities, Probes, Field tests, Air pollution effects, Acid rain, *EPA Method 2, CEMS(Continuous Monitoring Systems), Acid Rain Program.

PB99-150302REB PC A06/MF A01
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
Miscibility, Solubility, Viscosity, and Density Measuements for R-236ea with Four Different Exxon Lubricants. Final rept. Mar 95-Mar 97.
Iowa State Univ., Ames. Dept. of Mechanical Engineering.
H. M. Kang, and M. B. Pate. 15 Jun 1999, 86p, EPA/600/R-99/052.
See also PB96-183884. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
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The report discusses miscibility, solubility, viscosity, and density data for the refrigerant hydrofluorocarbon (HFC)-236ea (or R-236ea) and four lubricants supplied by Exxon Corporation. The miscibility tests were performed in a test facility consisting of a series of miniature test cells submerged in a constant temperature bath, precisely controlled over a range of -50 to 90 C. Critical solution temperatures obtained from the miscibility data are presented for each refrigerant/lubricant combination. Data for the R-236ea in each of the test lubricants have been collected for refrigerant concentrations of 10-90%. The raw data have been presented, and the results have been summarized. Solubility, viscosity, and density data were also obtained for R-236ea mixed with the same four oils for a refrigerant concentration range of 0-40 wt% refrigerant over a temperature range of 30-100 C.

Keywords: *Refrigerants, *Lubricants, *Physical properties, *Mixtures, Hydrofluorocarbons, Refrigeration systems, Solubility, Viscosity, Density(Mass/volume), Concentration(Composition), Pressure, Operating temperature, Temperature range, Testing, Compatibility, Refrigerating machinery, Material substitution, Air pollution abatement, *R-236ea, HFC-236ea, Miscibility.

PB99-150310REB PC A16/MF A03
Environmental Protection Agency, Washington, DC. Acid Rain Div.
Flow Reference Method Testing and Analysis; Wind Tunnel Experimental Results. Volume 1.
Cadmus Group, Inc., Durham, NC.
Feb 1997, 340p, EPA/430/R-97/013.
Contract EPA-68-D2-0168
See also Volume 2, PB99-150328. Sponsored by Environmental Protection Agency, Washington, DC. Acid Rain Div.
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This report describes the results of wind tunnel tests that the U.S. Environmental Protection Agency (EPA) conducted in 1997 as part of a major study to evaluate potential improvements to Method 2, EPA's test method for measuring flue gas volumetric flow in stacks. Conducted in the Merrill Subsonic Wind Tunnel at North Carolina State University in Raleigh, the wind tunnel tests were designed to evaluate how accurately various probes can measure angles and velocity of flow under prescribed conditions and, additionally, to calibrate the probes for use in planned field experiments. To provide a basis for selecting probes for subsequent field tests, the wind tunnel testing was performed over a range of velocity, pitch, and yaw angle settings approximating the conditions encountered at actual utility sites.

Keywords: *Wind tunnel tests, *Air pollution monitors, *Flue gases, *Volume, *Electric power plants, *Velocity, Emissions, Stack gases, Air pollution sampling, Gas flow, Electric utilities, Yaw, Pitch(Motion), Angles, Flow measurement, Flow rates, Probes, Test methods, Acid rain, Air pollution effects, *EPA Method 2, CEMS(Continuous Emission Monitoring Systems), Acid Rain Program.

PB99-150328REB PC A22/MF A04
Environmental Protection Agency, Washington, DC. Acid Rain Div.
Flow Reference Method Testing and Analysis; Wind Tunnel Experimental Results. Volume 2.
Cadmus Group, Inc., Durham, NC.
Feb 1997, 498p, EPA/430/R-97/013.
See also Volume 1, PB99-150310. Sponsored by Environmental Protection Agency, Washington, DC. Acid Rain Div.
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This report describes the results of wind tunnel tests that the U.S. Environmental Protection Agency (EPA) conducted in 1997 as part of a major study to evaluate potential improvements to Method 2, EPA's test method for measuring flue gas volumetric flow in stacks. Conducted in the Merrill Subsonic Wind Tunnel at North Carolina State University in Raleigh, the wind tunnel tests were designed to evaluate how accurately various probes can measure angles and velocity of flow under prescribed conditions and, additionally, to calibrate the probes for use in planned field experiments. To provide a basis for selecting probes for subsequent field tests, the wind tunnel testing was performed over a range of velocity, pitch, and yaw angle settings approximating the conditions encountered at actual utility sites.

Keywords: *Wind tunnels tests, *Air pollution monitors, *Flue gases, *Volume, *Electric power plants, *Velocity, Emissions, Stack gases, Air polltion sampling, Gas flow, Electric utilities, Yaw, Pitch(Motion), Angles, Flow measurement, Flow rates, Probes, Test methods, Acid rain, Air pollution effects, *EPA Method 2, CEMS(Continuous Emission Monitoring Systems), Acid Rain Program.

PB99-150336REB PC A13/MF A03
Environmental Protection Agency, Washington, DC. Acid Rain Div.
Flow Reference Method Testing and Analysis; Field Test Plan. Texas Utilities Decordova Steam Electric Station.
Cadmus Group, Inc., Durham, NC.
E. Lieberman, and A. S. Werner. 30 May 1997, 266p, EPA/430/R-97/024.
Contract EPA-68-D2-0168
See also PB99-150310, PB99-150328, PB99-150286, PB99-150294, PB99-150401, PB99-150385 and PB99-150369. For complete data base on zip disk see PB99-150393. Sponsored by Environmental Protection Agency, Washington, DC. Acid Rain Div.
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This report describes the experiemental design and test plan for the first of three field tests that the U.S. Environmental Protection Agency (EPA) conducted in 1997 as part of a major study to evaluate potential improvements to Method 2, EPA's test method for measuring flue gas volumetric flow in stacks. The experimental design involved four test teams taking concurrent in-stack measurements with velocity sensing probes. Seven types of probes were included in the study. Three test matrices were used to gather data for inter-probe and inter-team comparisons and to assess the impact of velocity decline near the stack wall on volumetric flow measurements.

Keywords: *Steam generators, *Air pollution monitors, *Flue gases, *Volume, *Flow rates, *Velocity, Experimental design, Planning, Field tests, Air pollution sampling, Stack gases, Emissions, Electric power plants, Flow measurement, Gas flow, Test methods, Yaw, Pitch(Motion), Angles, Probes, Electric utilities, Acid rain, Air pollution effects, Texas, *EPA Method 2, *Decordova Steam Electric Station, CEMS(Continuous Emission Monitoring Systems), Acid Rain Program.

PB99-150369REB PC A17/MF A03
Environmental Protection Agency, Washington, DC. Acid Rain Div.
EPA Flow Reference Method Testing and Analysis: Data Report. Pennsylvania Electric Company, G.P.U. Genco Homer City Station. Volume 1. Test Description and Appendix A (Data Distribution Package).
Cadmus Group, Inc., Durham, NC.

Sep 1998, 360p, EPA/430/R-98/018A.
Contract EPA-68-W6-0050
See also PB99-150310, PB99-150328, PB99-150336, PB99-150286, PB99-150294, PB99-150401 and PB99-150385. For version on disk see PB99-150393.
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This report describes the test site, equipment, and procedures and presents the data obtained during field testing at G.P.U. Genco Homer City Station, August 19-24, 1997. This was the third of three field tests that the U.S. Environmental Protection Agency (EPA) conducted in 1997 as part of a major study to evaluate potential improvements to Method 3, EPA's test method for measuring flue gas volumetric flow in stacks. The report also includes a Data Distribution Package, the official, complete repository of the results obtained at the test site.

Keywords: *Steam generators, *Air pollution monitors, *Flue gases, *Volume, *Velocity, Emissions, Stack gases, Air pollution sampling, Gas flow, Electric power plants, Yaw, Pitch(Motion), Angles, Flow rates, Probes, Flow measurement, Electric utilities, Test methods, Air pollution effects, Acid rain, Texas, *EPA Method 2, *Homer City Station, CEMS(Continuous Emission Monitoring Systems), Acid Rain Program.

PB99-150385REB PC A14/MF A03
Environmental Protection Agency, Washington, DC. Acid Rain Div.
EPA Flow Reference Method Testing and Analysis: Data Report. Texas Utilities, Lake Hubbard Steam Electric Station. Volume 1. Test Description and Appendix A (Data Distribution Package).
Cadmus Group, Inc., Durham, NC.
Sep 1998, 292p, EPA/430/R-98/017A.
Contract EPA-68-W6-0050
See also PB99-150310, PB99-150328, PB99-150336, PB99-150286, PB99-150294, PB99-150401 and PB99-150369. For electronic version see disk, PB99-150393. Sponsored by Environmental Protection Agency, Washington, DC. Acid Rain Div.
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This report describes the test site, equipment, and procedures and presents the data obtained during field testing at Texas Utilities Lake Hubbard Steam Electric Station, July 8-12, 1997. This was the second of three field tests that the U.S. Environmental Protection Agency (EPA) conducted in 1997 as part of a major study to evaluate potential improvements to Method 2, EPA's test method for measuring flue gas volumetric flow in stacks. The report also includes a Data Distribution Package, the official, complete repository of the results obtained at this test site.

Keywords: *Steam generators, *Air pollution monitors, *Flue gases, *Volume, *Velocity, Emissions, Stack gases, Air pollution sampling, Gas flow, Electric power plants, Yaw, Pitch(Motion), Angles, Flow rates, Probes, Flow measurement, Electric utilities, Test methods, Air pollution effects, Acid rain, Texas, *EPA Method 2, *Lake Hubbard Steam Electric Station, CEMS(Continous Emission Monitoring Systems), Acid Rain Program.

PB99-150401REB PC A15/MF A03
Environmental Protection Agency, Washington, DC. Acid Rain Div.
EPA Flow Reference Method Testing and Analysis: Data Report. Texas Utilities DeCordova Steam Electric Station. Volume 1. Test Description and Appendix A (Data Distribution Package).
Cadmus Group, Inc., Durham, NC.
Sep 1998, 308p, EPA/430/R-98/015A.
See also PB99-150310, PB99-150328, PB99-150336, PB99-150286, PB99-150294, PB99-150385 and PB99-150369. See electronic version on disk PB99-150393. Sponsored by Environmental Protection Agency, Washington, DC. Acid Rain Div.
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This report describes the test site, equipment, and procedures and presents the data obtained during field testing at Texas Utilities DeCordova Steam Electric Station, June 3-8, 1997. This was the first of three field tests that the U.S. Environmental Protection Agency (EPA) conducted in 1997 as part of a major study to evaluate potential improvements to Method 2, EPA's test Method for measuring flue gas volumetric flow in stacks. The report also includes a Data Distribution Package, the official, complete repository of the results obtained at this test site.

Keywords: *Steam generators, *Air pollution monitors, *Flue gases, *Volume, *Flow rates, *Velocity, Field tests, Air pollution sampling, Stack gases, Emissions, Electric power plants, Flow measurement, Gas flow, Test methods, Yaw, Pitch(Motion), Angles, Probes, Electric utilities, Acid rain, Air pollution effects, Texas, *EPA Method 2, *Decordova Steam Electric Station, CEMS(Continuous Emission Monitoring Systems), Acid Rain Program.

PB99-150419REB PC A09/MF A02
National Risk Management Research Lab., Ada, OK. Subsurface Protection and Remediation Div.
3DHYDROGEOCHEM: A 3-Dimensional Model of Density-Dependent Subsurface Flow and Thermal Multispecies-Multicomponent HYDROGEOCHEMical Transport. Final rept.
Pennsylvania State Univ., University Park. Dept. of Civil and Environmental Engineering.
G. T. Yeh, and H. P. Cheng. Jul 1999, 164p, EPA/600/R-98/159.
Contract EPA-CR-818322
Sponsored by National Risk Management Research Lab., Ada, OK. Subsurface Protection and Remediation Div.
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This report presents a three-dimensional finite-element numerical model designed to simulate chemical transport in subsurface systems with temperature effect taken into account. The three-dimensional model is developed to provide (1) a tool of application, with which one is able to deal with a variety of real-world problems, (2) a tool of education, with which one can study how a factor would affect the whole system, and (3) a substructure, which one could modify to handle specific problems. The hydrological environment to which the model can be applied is a heterogeneous, anisotropic, saturated-unsaturated subsurface medium under either transient-state or steady-state flow conditions. In addition, the temperature within the system of interest can be for both time- and location-dependent. The model employs chemical equilibrium to describe the relationship among chemicals. The chemical reactions included in the model are aqueous complexation, multi-site adsorption/desorption, multi-site ion-exchange, precipitation/dissolution, redox, and acid-base reactions. To extend its applicability to more real-world problems, two approaches are presented for the chemical transport module in this report. The first approach uses the pore velocity and dispersion coefficient to handle advection and dispersion, respectively, for aqueous components, whereas the second approach employs the retarded pore velocity and the retarded dispersion coefficient. The governing equations of subsurface flow, chemical transport, chemical equilibrium, and heat transfer are stated and/or derived. The governing equations of subsurface flow, chemical transport, chemical equilibrium, and heat transfer are stated and/or derived. The numerical approaches with the finite element method to solve the governing equations are described. Four application examples, including a three-dimensional subsurface flow example, a three-dimensional reactive chemical transport example, a three-dimensional heat transfer example, and a three-dimensional coupled flow-transport-transfer example, are presented to demonstrate the capability of the model. Data input guide and program description are stated in Appendix A and Appendix B, respectively. in Appendix C, parameter specification for array dimensions in 3DHYDROGEOCHEM is given.

Keywords: *Three-dimensional flow, *Path of pollutants, *Aqueous solutions, *Computerized simulation, Subsurface flow, Environmental transport, Temperature effects, Chemical compound, Heat transfer, Chemical equilibrium, Boundary conditions, Three-dimensional models, Water pollution monitoring, Steady state, Finite element analysis, Hydrologic models, Mathematical models, *3DHYDROGEOCHEM computer model, HYDROGEOCHEM computer model, Transient state.

PB99-150427REB PC A04/MF A01
Emissions of Air Toxics from a Simulated Charcoal Kiln. Final rept. Oct 97-Sep 98.
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
P. M. Lemieux. Jun 1999, 46p, EPA/600/R-99/054.
See also PB99-102147.
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The report gives results of experiments in a laboratory-scale charcoal kiln simulator to evaluate emissions of hazardous air pollutants from the production of charcoal in Missouri-type kilns. Fixed combustion gases were measured using continuous monitors. In addition, other pollutants, including methanol, volatile organic compounds, semivolatile organic compounds, and particle emission rates and size distributions were measured using various techniques. Emissions of all pollutants are reported in units of grams emitted per unit mass of initial wood converted to charcoal. Two burn conditions--slow and fast--were examined. High levels of methanol, benzene, and fine particulate were emitted in all tests. The estimated emissions from the fast burn conditions were significantly higher than those from the slow burn conditions.

Keywords: *Air pollution sources, *Kilns, *Emissions, *Charcoal, *Combustion products, Carbonyl compounds, Particulates, Benzene, Wood, Methanol, Air pollution sampling, Continuous sampling, Particle size distribution, Toxicity, Burning, Incineration, Carbon cycle, Air pollutin control, *Missouri-type kilns, Volatile organic compounds, Semivolatile organic compounds, Emission rates.

PB99-153611REB PC A08/MF A02
Evaluation of Air Pollutant Emissions from Subsonic Commercial Jet Aircraft. Final rept.
Environmental Protection Agency, Ann Arbor, MI. Office of Mobile Sources.
Apr 1999, 136p, EPA/420/R-99/013.
See also PB94-207610.
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The Environmental Protection Agency's (EPA) Office of Mobile sources initiated this study in order to assess the existing and potential impact of aircraft emissions on localair quality at ten selected cities. The scope of this study: (1) selected ten cities with current or potential local air quality problems; (2) estimated the emissions from commercial jet aircraft only (on board auxiliary power units excluded); (3) relied on the methodology in EPA's Procedures for Emission Inventory Preparation, Volume 4: Mobile Sources, 1992 (PB92-209386); (4) sought data from sources that are national in scope and readily available, and (5) used 1990 as the base year, with 2010 as the projection year for potential emissions growth. This study confirms that commercial aircraft emissions significantly contribute to air pollution in the ten study areas. This study creates a basis understanding of ground-level aircraft emissions contribution, verifies that investigation of cost-effective control options on aircraft emissions is warranted, and highlights the need for improvements in the quality of national level data if more certainty is desired.

Keywords: *Jet aircraft, *Subsonic aircraft, *Commercial aircraft, *Air pollution monitoring, Jet engines, Turbine engines, Aircraft engines, Emissions, Airports, Fleet management, Mobile pollutant sources, Air pollution sources, Ozone, Nitrogen oxides, Emission factors, Estimating, Forecasting, Metropolitan areas, Environmental effects, Health effects, Public health, Nonattainment.

PB99-153637REB PC A08/MF A02
National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development.
Synergistic Wood Preservatives for Replacement of CCA. Final rept.
Mississippi State Univ., Mississippi State. Forest Products Lab.
D. D. Nicholas, T. P. Schultz, and M. G. Kim. Feb 1999, 140p, EPA/600/R-99/024.
Grant EPA-R-821788-01-1
See also PB94-159928. Sponsored by National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development. and Department of Agriculture, Washington, DC.
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The objective of this project was to evaluate the potential synergistic combinations of environmentally-safe biocides as wood preservatives. Didecyldimethylammonium chloride (DDAC) was combined with either chlorothalonil (CTN), tribromophenol (TBP) or sodium omadine (NaO) to provide the syntergistic mixtures. A total of five systems were examined; one oil-borne (DDAC:CTN) and four waterborne (oil-in-water emulsions) mixtures, including DDAC:NaO with a water repellant. Wood treated with these preservatives was evaluated in both soil contact and above-ground exposure, with CCA and pentachlorophenol (penta) treated wood used as positive controls. The treated wood was evaluated for both biocide efficacy and depletion. The water-borne DDAC:TBP and DDAC:NaO formulations performed poorly in the field tests and, consequently, are not viable wood preservative systems. However, the addition of a water repellent to the DDAC:NaO system greatly improve the performance in above-ground tests, suggesting that this may be a good preservative for this application. The oil-borne DDAC:CTN formulation is performing very well and may be viable wood preservation system. The water-borne DDAC:CTN formulation is performing moderately well at this time but appears to suffer from excessive CTN leaching; this deficiency probably can be corrected with a modified formulation.

Keywords: *Wood preservatives, *Materials replacement, *Tests, Water repellents, Waterproofing, Pentachlorphenol, Biocides, Environmental chemical substitutes, Exposure, Degradation, Fungi, Termites, Leaching, *CCA(Chromated Copper Arsenate), *Chromated Copper Arsenate, *Efficacy, Didecyldimethylammonium chloride, Chlorothalonil, Tribromophenol, Sodium omadine.

PB99-154965REB PC A11/MF A03
Guidance Manual for Implementing Municipal Storm Water Management Programs. Planning and Administration. Rept. for Jan 1997-Oct 1998.
National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development.
May 1999, 204p, EPA/600/R-99/021.
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The purpose of this manual is to provide practical guidance for municipalities on how to best implement their storm water management programs. This manual is intended to help municipalities through this implementation process for their storm water management program. A basic seven-step planning process described in this report provides a framework for effective decision-making and long-term planning. Municipalities are encouraged to revisit decisions made during Parts 1 and 2 of the permit application process to reassess their overall planning strategies, selected controls, policies, and programmatic measures.

Keywords: *Storm water runoff, *Municipalities, *Urban drainage, *Manuals, Municipal wastes, Sewers, Storm drains, Urban runoff, Urban hydrology, Water pollution control, Water treatment, Water quality management, Regulations, Clean Water Act, National Pollutant Discharge, Elimination System, Urbanization, Long term planning, Permit applications, Implementation, Administration procedures, Requirements, *Best Management Practices.

PB99-155236REB PC A19/MF A04
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Nonmethane Organic Compounds and Speciated Nonmethane Organic Compounds Monitoring Program, 1993. Final rept.
Radian Corp., Research Triangle Park, NC.
7 Jan 1994, 416p, DCN-93-298-130-12-10, EPA/454/R-99/012.
Contract EPA-68-D2-0160
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In certain areas of the country where the National Ambient Air Quality Standard (NAAQS) for ozone being exceeded, additional measurements of ambient nonmethane organic compounds (NMOC) are needed to assist the affected states in developing revised ozone control strategies. Because of previous difficulty in obtaining accurate NMOC measurements, the U.S. Environmental Protection Agency (EPA) has provided monitoring and analytical assistance to these states, beginning in 1984 and continuing through the 1993 NMOC monitoring program.

Keywords: *Air pollution sampling, *Statistical data, *Urban areas, Chemical analysis, Air pollution monitoring, Ecological concentration, Gas chromatography, Mass spectroscopy, Flamme ionization, National Ambient Air Quality Standards, Carbohnyl compounds, Ozone, Detectors, Quality assurance, Quality control, Tables(Data), *Nonmethane organic compounds.

PB99-155251REB PC A07/MF A02
National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development.
Zenon Environmental, Inc.: ZenoGem (Trade Name) Biological and Ultrafiltration Technology. Innovative Technology Evaluation Report. Superfund Innovative Technology Evaluation.
Tetra Tech EM, Inc., Cincinnati, OH.
Apr 1999, 110p, EPA/540/R-95/503.
Contract EPA-68-C5-0037
See also PB98-115371. Sponsored by National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development.
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Zenon Environmental Inc. (Zenon), of Burlington, Ontario, Canada had developed an innovative wastewater treatment technology called the ZenoGem (trademark) technology. The ZenoGem (trademark) technology integrates biological treatment with membrane-based ultrafiltration to treat wastewater with high concentrations of organic contaminants that cause elevated concentrations of chemical oxygen demand (COD). The Superfund Innovative Technology Evaluation (SITE) demonstration occurred between September and December 1994 at the Nascolite Superfund site (Nascolite) in Millville, Cumberland County, New Jersey. During the SITE demonstration, critical and noncritical measurements were evaluated. Critical measurements consisted of sample analyses and process measurements that directly impacted meeting the project's primary technical objective. Critical measurements included collection of liquid and air samples for MMA and VOC analyses; liquid samples to evaluate COD; and flow rate measurements of the influent and effluent liquid streams. Noncritical, or system condition measurements, provided information on operating ranges, reliability, variability, cost-effectiveness, and full-scale remediation potential of the technology.

Keywords: *Biological treatment, *Ultrafiltration, *Waste water treatment, *Water pollution control, Filters, Membranes, Leachate, Heavy metals, Methyl methacrylate, Chemical oxygen demand, Biodegradation, Ground water, Performance evaluation, Technology innovation, *Treatment technology, SITE(Superfund Innovative Technology Evaluation), Volatile organic compounds, MMA(Methyl Methacrylate), Bioremediation.

PB99-155269REB PC A14/MF A03
National Emission Standards for Hazardous Air Pollutants for Source Categories: Oil and Natural Gas Production and Natural Gas Transmission and Storage. Background Information for Final Standards. Summary of Public Comments and Responses.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
May 1999, 290p, EPA/453/R-99/004B.
See also PB97-199814.
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On February 6, 1998, the Environmental Protection Agency (EPA) proposed standards of performance for the oil and natural gas production source category (63 FR 6288) under authority of Section 111 of the Clean Air Act. There were 54 commenters composed mainly of industry and trade associations. Also commenting were State and local agencies, consultants and engineers, environmental groups, and other interested parties. The written comments were submitted, along with the responses to these comments, are summarized in this document.

Keywords: *Natural gas industry, *Petroleum industry, *Air pollution standards, Natural gas distribution systems, Gas production, Oil production, Storage facilities, Gas storage, Natural gas wells, Oil wells, Gas pipelines, Offshore platforms, Natural gas processing plants, Dehydration, Air pollution sources, Air pollution control, Air pollution monitoring, Waste streams, Inspection, Record keeping, Requirements, Pollution regulations, Cost analysis, *NESHAP(National Emission Standards for Hazardous Air Pollutants), *National Emission Standards for Hazardous Air Pollutants, Public comments, Responses.

PB99-155277REB PC A16/MF A03
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Nonmethane Organic Compounds and Speciated Non-Methane Organic Compounds Monitoring Program, 1995. Final rept.
Eastern Research Group, Inc., Morrisville, NC.
J. L. Steger, and J. Rice. Dec 1996, 348p, EPA/454/R-99/014.
Contract EPA-68-D3-0095
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In certain areas of the country where the National Ambient Air Quality Standard (NAAQS) for ozone being exceeded, additional measurements of ambient No abstract availablenonmethane organic compounds (NMOC) are needed to assist the affected states in developing revised ozone control strategies. Because of previous difficulty in obtaining accurate NMOC measurements, the U.S. Environmental Protection Agency (EPA) has provided monitoring and analytical assistance to these states, beginning in 1984 and continuing through the 1993 No abstract availableNMOC monitoring program.

Keywords: *Air pollution sampling, *Statistical data, *Urban areas, Chemical analysis, Air pollution monitoring, Ecological concentration, Gas chromatography, Mass spectroscopy, Flamme ionization, National Ambient Air Quality Standards, Carbohnyl compounds, Ozone, Detectors, Quality assurance, Quality control, Tables(Data), *Nonmethane organic compounds.

PB99-155285REB PC A14/MF A03
Environmental Protection Agency, Washington, DC. Risk Assessment Forum.
Report of the Workshop on Selecting Input Distributions for Probabilistic Assessments. Held in New York, New York on April 21-22, 1998.
Eastern Research Group, Inc., Lexington, MA.
Jan 1999, 290p, NCEA-F-0479, EPA/630/R-98/004.

Contract EPA-68-D5-0028
Sponsored by Environmental Protection Agency, Washington, DC. Risk Assessment Forum.
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In the Summer of 1997, a technical panel, convened under the auspices of the RAF, began work on a framework for selecting input distributions for use in Monte Carlo analyses. Applications of this framework to three exposure factors highlighted several issues. These issues resolve into two broad categories: issues associated with the representativeness of the data, and issues associated with using the Empirical Distribution Function (or resampling techniques) versus using a theoretical Parametric Distribution Function. These issues were the focal point for discussions at a workshop convened for EPA by Eastern Research Group, Inc. in April 1998. This report captures the main points and highlights the discussions held during the workshop. The workshop and this report will assist EPA in developing a framework and guidance for selecting input distributions for probabilistic risk assessments.

Keywords: *Risk assessment, *Distribution functions, Environmental exposure, Public health, Factor analysis, Sensitivity analysis, Statistical analysis, Parametric analysis, Data analysis, Empirical equations, Monte Carlo method, Variability, Meetings, *Probabilistic Assessments, RAF(Risk Assessment Forum).

PB99-155293REB PC A20/MF A04
Environmental Protection Agency, Washington, DC. National Center for Environmental Assessment.
Report on the Shrimp Virus Peer Review and Risk Assessment Workshop: Developing a Qualitative Ecological Risk Assessment. Held in Arlington, Virginia on January 7-8, 1998. Final rept.
Eastern Research Group, Inc., Lexington, MA.
A. Fairbrother, J. Gentile, C. Menzie, W. H. van der Schalie, W. Munns, and H. K. Austin. Mar 1999, 434p, NCEA-1-0443, EPA/600/R-99/027.
Contract EPA-68-C6-0041
See also PB98-111800. Prepared in cooperation with Ecological Planning and Toxicology, Inc., Corvallis, OR., Rosenstiel School of Marine and Atmospheric Science, Miami, FL. and Menzie-Cura and Associates, Inc., Chelmsford, MA. Sponsored by Environmental Protection Agency, Washington, DC. National Center for Environmental Assessment.
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This final report of a peer review and risk assessment workshop (held January 7-8, 1998) on nonindigenous pathogenic shrimp viruses, was sponsored by EPA's National Center for Environmental Assessment, on behalf of the Joint Subcommittee on Aquaculture (JSA), under the National Science and Technology Council. The report develops a qualitative ecological risk assessment describing the potential risks of nonindigenous pathogenic shrimp viruses on wild shrimp populations in U.S. coastal waters. Expert conclusions and recommendations contained in the report have undergone an independent scientific review. The report notes the need for conducting further systematic research efforts to reduce uncertainty and it identifies a number of priority research areas. The report and the results of the independent scientific review, were used as the basis for a risk management workshop on shrimp viruses held on July 28-29, 1998 in New Orleans. A report of the risk management workshop is in preparation and develops options and strategies for managing workshop is in preparation and develops options and strategies for managing the threat of shrimp viruses to cultured and wild stocks of shrimp in U.S. coastal waters.

Keywords: *Risk assessment, *Shrimp, *Virus diseases, *Qualitative analysis, Animal populations, Population dynamics, Viruses, Pathogens, Animal diseases, Biological communities, Disease vectors, Environmental impacts, Coastal waters, United States, Meetings.

PB99-155442REB PC A05/MF A01
National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development.
Environmental Technology Verification Report: Rechargeable Alkaline Household Battery System, Rayovac Corporation, Renewal (Trade Name).
California Environmental Protection Agency, Sacramento. Office of Pollution Prevention and Technology Development.
T. Escarda, and N. Lewis. Mar 1999, 56p, EPA/600/R-99/005.
Grant EPA-R-824433-01-0
Sponsored by National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development.
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The EPA's ETV Program, in partnership with recognized testing organizations, objectively and systematically documents the performance of commercial ready technologies. Together, with the full participation of the technology developer, develop plans, conduct tests, collect and analyze data, and report findings. Rayovac redesigned their alkaline household batteries so that they could be recharged. The additional charge cycles extend battery life by increasing the energy capacity, which benefits the environment by generating less waste. The design changes include increased void space, and addition of lead and silver. The Rayovac Renewal (trademark) Rechargeable Alkaline Battery System consists of rechargable alkaline zinc-manganese dioxide 1.5 volt batteries, in sizes AAA, AA, C, and D, and a recharging device for the batteries. Typical consumer applications of household batteries include toys and games, portable audio equipment, cameras, sporting goods equipment, test equipment, personal care products, hearing aids, portable data terminals, sub-notebook computers and personal digital assistants, watches, flashlights, lanterns, and cellular phones. Such applications typically require continuous currents of up to 400 milliamperes (mA), which is within the range of the Renewal (trademark) batteries, sized AA, C, and D. Size AAA can supply up to 150 mA continuous current, which is sufficient for applications such as clocks.

Keywords: *Electric batteries, *Commercialization, *Performance evaluation, *Recycling, Technology innovation, Environmental engineering, Feasibility, Environmental protection, Hazardous materials, Rechargeable batteries.

PB99-155459REB PC A06/MF A01
National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development.
Technical Approaches to Characterizing and Cleaning Up Automotive Repair Sites under the Brownfields Initiative.
Eastern Research Group, Inc., Lexington, MA.
Feb 1999, 78p, EPA/625/R-98/008.
Contract EPA-68-D7-0001
See also PB97-144810. Sponsored by National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development.
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Understanding the activities that occur during an automotive repair facility's active life, and therefore the types of contaminants that may be present, provides important information to guide planners in the assessment, cleanup, and restoration of the site to an acceptable condition for sale or reuse. The document includes references to state agency roles including the Voluntary Cleanup Program, public involvement and other guidances that may be used.

Keywords: *Site characterization, *Repair shops, Contamination, Sampling, Assessment, Technology, Contaminants, Automotive repair, Planning, Restoration, Remediation, *Automobile repair sites, *Cleanup.

PB99-155467REB PC A04/MF A01
National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development.
Cost Estimating Tools and Resources for Addressing Sites under the Brownfields Initiative.
Eastern Research Group, Inc., Lexington, MA.
Apr 1999, 48p, EPA/625/R-99/001.
Contract EPA-68-D7-0001
Sponsored by National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development.
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The purpose of this document is to provide information about the cost-estimating process and the specific cost-estimating tools and resources available. Generally, two key factors affecting costs are the type and nature of the contamination present and the intended future use of the site. These will dictate to a large extent the appropriate cleanup methods that should be implemented.

Keywords: *Cost estimates, Estimates, Costs, Contamination, Restoration, Remediation, Resources, Decision making, *Brownfields, *Cleanup.

PB99-155517REB PC A02/MF A01
Motor Vehicles and the 1990 Clean Air Act. Fact sheet.
Environmental Protection Agency, Ann Arbor, MI. Office of Mobile Sources.
Aug 1994, 6p, EPA/400/F-92/013.
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The Clean Air Act of 1970 set a national goal of clean and healthy air for all. It established the first specific responsibilities for government and private industry to reduce emissions from vehicles, factories, and other pollution sources. Congress and the Administration in 1990 amended and updated the Clean Air Act for the first time since 1977. The 1990 Clean Air Act includes provisions to further control ground-level ozone (urban smog), carbon monoxide, and particulate emissions from diesel engines and to address air toxics and acid rain. Motor vehicles contribute to all these problems. This fact sheet focuses on the mobile source provisions of the 1990 law, which together will reduce most vehicle-related pollutants by more than 40 percent.

Keywords: *Motor vehicles, *Vehicle air pollution, *Pollution regulations, Air pollution control, Air pollution abatement, Exhaust emissions, Ozone, Carbon monoxide, Particulates, Smog, Fleet management, Buses, Trucks, Automobiles, Provisions, *Clean Air Act Amendments of 1990.

PB99-156184REB PC A10/MF A02
Preliminary Methodology for Evaluating the Cost-Effectiveness of Alternative Indoor Air Quality Control Approaches. Final rept. Mar 98-Feb 99.
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
D. B. Henschel. Jun 1999, 190p, EPA/600/R-99/053.
See also PB98-155047 and PB98-151780.
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The report defines a simplified methodology that can be used by indoor air quality (IAQ) diagnosticians, architects/engineers, building owners/operators, and the scientific community, for preliminary comparison of the cost-effectiveness of alternative IAQ control measures for any given commercial or institutional building. The preliminary methodology consists of tex, logic diagrams, and worksheets that are intended to aid the user in: (1) assessing which IAQ control options(s) might apply to the specific building being addressed; (2) designing alternative control measures (involving increased outdoor air ventilation, air cleaning, or source management), and developing rough installed and operating costs for these measures; (3) estimating the approximate effectiveness of the alternative control measures in reducing occupant exposure to contami-

nants of concern; and (4) comparing the cost-effectiveness of the alternative control measures under consideration, to aid in selecting the optimal control approach.

Keywords: *Indoor air pollution, *Cost effectiveness, *Alternatives, *Methodology, Air pollution sources, Indoor air quality, Commercial buildings, Public buildings, Space HVAC systems, Air pollution control, Air pollution abatement, Exposure, Quality control, Optimization.

PB99-156242REB PC A06/MF A01
Environmental Protection Agency, Washington, DC. Office of Site Remediation Enforcement.
Guidance on Administrative Response Cost Settlements under Section 122(h) of CERCLA and Administrative Cashout Settlements with Peripheral Parties under Section 122(h) of CERCLA and Attorney General Authority. Final rept.
Department of Justice, Washington, DC. Environment and Natural Resources Div.
B. Breen, and B. Gelber. 30 Sep 1998, 82p.
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The purpose of this memorandum and its attachments is to provide guidance on administrative response cost settlements entered under Section 122(h)(1) of the Comprehensive Environmental Response, Compensation, and Liability Act, and on administrative 'cashout' settlements with peripheral parties under Section 122(h)(1) of CERLCA and the authority of the Attorney General. Part I of this memorandum provides an overview of the guidance and explains the context in which the attached model settlements should be used. Part II of this memorandum explains the statutory provision, defines relevant terms, discusses the various types of administrative response cost settlements and the scope of covenants not to sue and reservations of rights in those settlements, provides guidance on amount of payment and use of premiums in future cost settlements, provides guidance on amount of payment and use of premiums in future cost settlements, and briefly discusses contribution protection clauses in such settlements. Part III outlines how administrative response cost settlements should be documented by the Regions and, when necessary, reviewed and approved by the Department of Justice ('DOJ' or 'the Department') and/or the Office of Enforcement and Compliance Assurance in EPA Headquarters ('OECA'). part IV explains the public comment requirements for administrative response cost settlements. Finally, Part V addresses enforcement of such settlements.

Keywords: *Superfund, *Costs, *Pollution control, *Remediation, Hazardous materials, Waste management, Law enforcement, Pollution regulations, Government policies, Litigation, US EPA, US DOJ, Sites, Violations, Penalties, Payments, Fines(Charges), Funds, Allocations, Cost repayments, Economic analysis, *CERCLA(Comprehensive Environmental Response Compensation and Liability Act), *Comprehensive Environmental Response Compensation and Liability Act, *Settlement(Law), Cleanup, Potentially responsible parties.

PB99-156390REB PC A07/MF A02
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
Demonstration of the Environmental and Demand-Side Management Benefits of Grid-Connected Photovoltaic Power Systems Sited on Military Bases. Final rept. Jan 96-Jun 98.
Ascension Technology, Inc., Lincoln Center, MA.
D. L. Greenberg, E. C. Kern, and M. C. Russell. cJul 1999, 106p, EPA/600/R-99/061.
Contract EPA-68-D5-0052
See also AD-A350584/XAB, AD-A330413/6/XAB, and PB98-145311/XAB. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
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The record gives results of an investigation into the pollutant emission reduction and demand-side management potential of three photovoltaic (PV) systems installed at Ft. Huachuca, AZ, Ft. Dix, NJ, and Hickman Air Force Base, HI, which began operation between January and July 1997. The report documents the project and gives results of analyses of each system's ability both to offset emissions of sulfur dioxide, nitrogen oxides, and carbon dioxide, and to provide power during peak load hours for the host sites and participating utilities.

Keywords: *Military facilities, *Photovoltaic power supplies, *Electric power demand, *Air pollution abatement, Photovoltaic cells, Solar energy, Electric power generation, Peak load, Energy demand, Electric utilities, Sulfur dioxide, Nitrogen oxides, Carbon dioxide, Arizona, New Jersey, Hawaii, Case studies, *Demand side management, Fort Huachuca, Fort Dix, Hickam Air Force Base, Emission rates.

PB99-156408REB PC A13/MF A03
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
Demonstration of Natural Gas Reburn for NOx Emissions Reduction at Ohio Edison Company's Cyclone-Fired Niles Plant Unit No. 1. Final rept. Sep 90-Dec 96.
ABB/Combustion Engineering, Inc., Windsor, CT. Power Plant Labs.
R. W. Borio, R. D. Lewis, and R. W. Koucky. Jul 1999, 274p, EPA/600/R-99/063.
Contract EPA-68-02-4280
Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div., Gas Research Inst., Chicago, IL., Electric Power Research Inst., Palo Alto, CA. and Department of Energy, Pittsburgh, PA. Pittsburgh Energy Technology Center.
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The report describes a demonstration of reburning on a cyclone-fired boiler. The project included a review of reburn technology, aerodynamic flow model testing of reburn system design concepts, design and construction of the reburn system, parametric performance testing, long-term load dispatch testing, and boiler tube wall thickness monitoring. The report also contains a description of Ohio Edison's Niles No. 1 host unit, a discussion of conclusions and recommendations derived from the program, and tabulations of data from parametric and long-term tests. A primary focus of the report was to document performance of the Niles Unit No. 1 when employing natural gas reburning, but it was equally as important to be able to use the information to make technical and economic judgements on the application of natural gas reburning to the entire family of cyclone boilers. Performance of the reburn system at Niles might not represent the highest nitrogen oxide (NOx) reduction possible on cyclone boilers because of differences in design and operating parameters, including boiler size and mode of operation (e.g., cyclic vs base-loaded).

Keywords: *Nitrogen oxides, *Afterburners, *Air pollution control equipment, Cyclone combustors, Fossil-fuel power plants, Coal, Natural gas, Boilers, Recirculation efficiency, Combustion efficiency, Flue gases, Aerodynamic flow, Operation and maintenance, Technology assessment, Economic analysis, Demonstration programs, Performance evaluation, Reburning.

PB99-156416REB PC A03
Chesapeake Bay Watershed: It's Land and People.
Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.
1999, 14p, CBP/TRS-222/102, EPA/903R-99/008.
See also PB97-105944 and PB98-115587.
Available in original stock only. 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 Chesapeake Bay was this nation's first estuary targeted for restoration and protection. The Chesapeake Bay Program is the unique regional partnership that has been directing and conducting the restoration of the Bay since the signing of the historic 1983 Chesapeake Bay Agreement. The Chesapeake Bay Program partners include the states of Maryland, Pennsylvania and Virginia; the District of Columbia; the Chesapeake Bay Commission, a tri-state legislative body; the U.S. Environmental Protection Agency, representing the federal government; and participating advisory groups.

Keywords: *Chesapeake Bay, *Watersheds(Basins), *Natural resources management, Aquatic biology, Aquatic habitats, Ecosystems, Forests, Wetlands, Estuaries, Environmental health, Environmental protection, Population dynamics, Man environment interactions, Water pollution, Land pollution, Middle Atlantic Region(United States), Chesapeake Bay Program.

PB99-156655REB PC A07/MF A02
Teaming with Life: Investing in Science to Understand and Use America's Living Capital.
President's Committee of Advisors on Science and Technology, Washington, DC.
Mar 1998, 108p.
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Over the last few decades, a new paradigm has emerged: Improving and protecting our environment is compatible with growing the Nation's economy. As part of this paradigm, we have come to recognize the essenitial linkage between the economy and the environment. We now understand that the sustainted bounty of our Nation's lands and waters and of its native plant and animal communities in the natural capital on which our economy is founded. We also realize that a sound forward-looking economic strategy requires that we protect this natural capital, rather than damage it and then spend millions or billions of dollars attempting to recreate what Nature has already given us. To protect our natural capital, our Nation's biodiversity and the ecosystems within which it thrives, we need to have an extensive and frequently updated environmental knowledge base. This knowledge base is required to evaluate alternative plans for managing biodiversity and ecosystems as we work to optimize the union between the environmental and the economy.

Keywords: *Natural resources, Economic assessments, United States, Biodiversity, Ecosystems, Biota, Education, Sustainable development.

PB99-156671REB PC A99/MF E08
Technical Development Document for Phase 1 Uniform National Discharge Standards for Vessels of the Armed Forces.
Environmental Protection Agency, Washington, DC. Office of Water.
Apr 1999, 916p, EPA/821/B-99/001.
See also PB99-101313. Prepared in cooperation with Naval Sea Systems Command, Arlington, VA.
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.

A and DoD identified a list of 39 types of discharges incidental to the normal operations of vessels of the Armed Forces and evaluated them during Phase I of UNDS. Consultations with personnel having equipment expertise were held on each discharge to identify available data and data gaps. Sampling data were collected from various vessels, where needed, to supplement existing data. Concurrently, existing laws and regulations were reviewed, including applicable international, Federal, State, and local standards. In addition, consultation meetings were held with interested Federal agencies, States, and environmental oganizations.

Keywords: *Ships, *Fleets(Ships), *Marine pollution, *Water pollution standards, Naval vessels, Navy, Submarines, Coast Guard ships, Marine Corps, Army, Air Force, US DOD, Ports(Facilities), Clean Water Act, Pollution regulations, Environmental impact assessments, Water pollution control equipment, Water pollution abatement, Waste water disposal, Oil wastes, Waste disposal, Ocean waste disposal, *Uniform National Discharge Standards, Military Sealift Command, Maritime Administration.

PB99-156747REB PC A05/MF A01
Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.
Phytoremediation Resource Guide.
Environmental Management Support, Inc., Silver Spring, MD.
Jun 1999, 58p, EPA/542/B-99/003.
Contract EPA-68-W6-0014
See also PB94-112307 and PB99-156754. Sponsored by Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.
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Phytoremediation is the direct use of living plants for in situ remediation of contaminated soil, sludges, sediments, and ground water through contaminant removal, degradation, or containment. Growing and, in some cases, harvesting plants on a contaminated site as a remediation method is an aesthetically pleasing, solar-energy driven, passive technique that can be used to clean up sites with shallow, low to moderate levels of contamination. This technique can be used along with or, in some cases, in place of mechanical cleanup methods. Phytoremediation can be used to clean up metals, pesticides, solvents, explosives, crude oil, polycyclic aromatic hydrocarbons, and landfill leachates. Phytoremediation has been studied extensively in research and small-scale demonstrations, but full-scale applications are currently limited in number. Further development and research of the mechanisms described below likely will lead to wider acceptance and use of phytoremediation.

Keywords: *Plants(Botany), *Remediation, Contaminants, In situ, Water pollution control, Land pollution control, Containment, Leachate, Landfills, *Phytoremediatin, Cleanup.

PB99-156754REB PC A06/MF A01
Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.
Multi-Phase Extraction: State-of-the-Practice.
Tetra Tech EM Inc., Denver, CO.
Jun 1999, 82p, EPA/542/R-99/004.
Contract EPA-68-W-99/003
Prepared in cooperation with HSI GeoTrans, Tucson, AZ. Sponsored by Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.
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This report provides an overview of the state-of-the-practice for multi-phase extraction (MPE). MPE involves simultaneous extraction of soil vapor and groundwater to remediate both types of contaminated media. This report focuses primarily on the applicability and use of MPE at sites with halogenated VOCs. Section 2 of this report provides a description of MPE technology, including the various configurations used for this technology. Section 3 describes the types of site conditions to which MPE would be applicable, and discusses the advantages and disadvantages of using MPE at these types of sites. Section 4 summarizes information about attributes of MPE vendors and examples of sites where these vendors have applied their technologies. Detailed case studies of sites where MPE has been used are summarized in Section 5 (for the Defense Supply Center, Richmond, VA; 328 Site, Santa Clara, CA; and Tinkham's Garage Superfund Site, Londonderry, NH), and referenced throughout the report. The references used during preparation of this report are listed in Section 6, and are cited in this report using parentheses.

Keywords: *Technology innovation, *Case studies, *Lessons learned, Soil gases, Ground water, Pumping, Water pollution control, Water treatment, Land pollution control, Soil treatment, Remediation, Site characterization, Costs, Vendors, *Multi-phase extraction, *Volatile organic compounds, Dual vacuum extraction, Soil vapor extraction, Bioslurping, Innovative treatment technologies.

PB99-156770REB PC A06/MF A01
Solidification/Stabilization Resource Guide.
Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.
Apr 1999, 94p, EPA/542/B-99/002.
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This Guide was developed for those who are considering solidification/stabilization technologies for the remediation of RCRA, UST, and CERCLA sites. This Guide has abstracts of 125 solidification/stabilization technology guidance and policy documents, overview/program documents, studies and demonstrations, workshops/conference proceedings, books, journal references, bibliographies, in situ solidication/stabilization resources, and other resource guides. A matrix is provided to allow easy screening of the abstracted references. Most of the references in the Guide are of documents published between 1994 and 1998.

Keywords: *Solidification, *Chemical stabilization, *Waste forms, *Hazardous materials, Waste treatment, Sludge treatment, Soil treatment, Industrial wastes, Solid wastes, Metals, Asbestos, Hydrocarbons, Polychlorinated biphenyls, Radioactive wastes, Cyanide, Projects, Technology innovation, Listings, *Treatment technology, UST(Underground Storage Tanks), CERCLA(Comprehensive Environmental Response Compensation and Liability Act), RCRA(Resource Conservation and Recovery Act), Volatile organic compounds, Semivolatile organic compounds.

PB99-156788REB PC A04/MF A01
Innovations in Site Characterization. Case Study: Dexsil L2000 PCB/Chloride Analyzer for Drum Surfaces.
Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.
May 1999, 44p, EPA/542/R-99/003.
See also PB99-156778 and PB96-130687.
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This case study describes how a field analytical method was used to measure PCB surficial contamination in empty drums that were cleaned by a new process. DOE proposed and EPA approved a sampling program to determine the effectiveness of the clean-up technology and evaluate compliance with EPA's regulatory limits for releasing TSCA-regulated items. The proposed sampling program consisted of (1) statistical control limits for process monitoring, (2) random sampling of processed drums, (3) wipe sampling of container surfaces, and (4) rapid analysis of the wipe samples by a field method. During the trial period, the clean-up technology vendor attempted to clean about 20 of the most highly contaminated drums. Field analyses of residual PCB contamination, which provided results within one hour of wipe sample collection, showed that the clean-up technology was not working as expected.

Keywords: *Drums(Containers), *Surfaces, *Contamination, *Sampling, *Polychlorinated biphenyls, Residues, Chlorides, Characterization, Cleaning, Performance evaluation, Quality control, Case studies, Technology innovation.

PB99-156796REB PC A07/MF A02
Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.
Field Applications of In situ Remediation Technologies: Permeable Reactive Barriers.
Environmental Management Support, Inc., Silver Spring, MD.
Jun 1999, 124p, EPA/542/R-99/002.
Contract EPA-68-W6-0014
See also PB99-149460 and PB99-149478 and PB99-105702. Sponsored by Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.
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This document is a status report on the use of permeable reactive barriers (PRBs) for ground-water remediation in the United States, Canada, and selected locations abroad. Included in this report are profiles of ongoing and completed pilot-and full-scale PRB demonstrations as well as full-scale installations. The profiles are organized by the type of contaminant treated. At some sites, PRBs are being used to address more than one type of contaminant. Profiles for these sites are included in all applicable sections of this document.

Keywords: *Water pollution control, *Ground water, Chemical reactivity, Hazardous materials, Metals, Inorganic compounds, Hydrocarbons, Nutrients, Radioisotopes, Plumes, In situ processing, Water treatment, Remediation, Case studies, Pilot studies, Field tests, *Permeable reactive barriers, Innovative treatment technologies, Chlorinated solvents, Volatile organic compounds.

PB99-156804REB PC A04/MF A01
Environmental Protection Agency, Washington, DC.
Geophysical Techniques to Locate DNAPLs: Profiles of Federally Funded Projects.
Federal Remediation Technologies Roundtable.
Dec 1998, 34p, EPA/542/R-98/020.
Contract EPA-68-W6-0014
Sponsored by Environmental Protection Agency, Washington, DC.
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Table of Contents:
Introduction;
For More Information;
U.S. Department of Energy;
U.S. Geological Survey;
Air Force Research Laboratory;
Environmental Security Technology Certification Program;
and U.S. Environmental Protection Agency.

Keywords: *Geophysical surveys, *Site characterization, *Federal agencies, *Technology innovation, Radar, Earth penetrating devices, Electrical impedance, Tomography, Seismic reflection, Negative ions, Tracer studies, Research programs, Detection, Sensors, Three dimensional, Site surveys, *DNAPLs(Dense Nonaqueous Phase Liquids), *Dense Nonaqueous Phase Liquids, Electromagnetic resistivity, Partitioning tracers.

PB99-156812REB PC A09/MF A02
Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.
Treatment Technologies for Site Cleanup: Annual Status Report (Ninth Edition).
Tetra Tech EM Inc., Denver, CO.
1999, 152p, EPA/542/R-99/001.
Contracts EPA-68-W5-0055, EPA-68-W-99-003
See also PB96-131693. Sponsored by Environmental Protection Agency, Washington, DC. Office of Solid Waste and Emergency Response.
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This report documents the status, as of the summer of 1998, of treatment technology applications for soil, other solid wastes, and groundwater at sites in the Superfund and several other national site cleanup programs. Previously titled Innovative Treatment Technologies: Annual Status Report, this ninth edition of the report has been renamed Treatment Technologies for Site Cleanup: Annual Status Report to reflect the inclusion of a broader range of treatment technologies (beyond innovative). The data in this report were gathered from site project managers for Superfund remedial and removal sites, RCRA corrective action sites, and Department of Defense and Energy sites.

Keywords: *Pollution control, *Remediation, Waste management, Hazardous waste, Soils, Solid wastes, Groundwater, Source control, *Treatment technology, Superfund, Records of Decision.

PB99-156903REB PC A09/MF A02
EPCRA Section 313 Reporting Guidance for Food Processors.
Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics.
Sep 1998, 174p, EPA/745/R-98/011.
See also PB99-149338.
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The purpose of this guidance manual is to assist Food Processing facilities, Standard Industrial Classification (SIC) Code 20, complying with the reporting requirements of EPCRA Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) and of Section 6607 of the Pollution Prevention Act of 1990 (PPA). This industry group includes facilities that produce meat products, dairy products, preserved fruits and vegetables, grain mill products, bakery products, sugar and confectionery products, fats and oils, beverages, and other miscellaneous food products. This manual explains the EPCRA Section 313 reporting requirements and discusses specific release and other waste management activities encountered at many facilities in this industry.

Keywords: *Food processing industries, *Waste management, *Hazardous materials, *Toxic substances, Agricultural chemicals, Pesticides, Disinfectants, Solvents, Byproducts, Ingredients, Residues, Sources, Monitoring, Reporting, Regulations, Record keeping, Guidelines, Exemptions, Thresholds(Physiology), Requirements, Processes, *EPCRA(Emergency Planning and Community Right to Know Act), *Emergency Planning and Community Right to Know Act, TRI(Toxic Chemical Release Inventory).

PB99-156911REB PC A05/MF A01
Private Sector Pioneers: How Companies Are Incorporating Environmentally Preferable Purchasing.
Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics.
Jun 1999, 52p, EPA/742/R-99/001.
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The U.S. Environmental Protection Agency's (EPA's) Environmentally Preferable Purchasing (EPP) Program is assisting efforts and documenting federal, state, and local government attempts to implement environmentally preferable purchasing strategies. In an effort to provide federal purchasers and other interested parties with up-to-date information on current environmental purchasing practices, this report highlights some of the initial efforts of a few private sector companies to 'buy green'.

Keywords: *Private sector, *Procurement, Waste utilization, Waste management, Recycled materials, Water conservation, Energy conservation, Energy management, Chemicals, Environmental protection, Incentives, Business process reengineering, Cost benefit analysis, *Environmentally Preferable Purchasing Program, Waste reduction.

PB99-156929REB PC A12/MF A03
Toxic Release Inventory, 1996. Data Quality Report.
Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics.
Dec 1998, 242p, EPA/745/R-98/016.
See also PB99-128985 and PB99-149353.
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As part of a continuing effort to assess and improve the quality of the data contained in the Toxic Release Inventory (TRI) database, the U.S. Environmental Protection Agency (EPA) conducted TRI data quality site surveys for reporting year (RY) 1996. This summary presents the significant findings and conclusions from the site surveys conducted. For RY 1996, site surveys were completed at 60 facilities: 27 facilities in SIC Code 33, the primary metals industry; 14 facilities in SIC Code 36, the electronic and other electrical equipment industry; and 19 facilities in Sic Code 37, the transportation equipment industry.

Keywords: *Data quality, *Quality assurance, *Hazardous materials, *Chemical compounds, *Reporting requirements, *Pollution sources, United States, Sectoral analysis, Manufacturing, Industrial plants, Metal industry, Electronics industry, Waste management, Waste treatment, Waste recycling, Waste processing, Water disposal, Air pollution, Water pollution, Solid wastes, Pollution control, Pollution abatement, Public information, Administrative procedures, *TRI(Toxic Release Inventory), *Toxic Release Inventory, Transportation equipment industry.

PB99-157505REB PC A09/MF A02
Draft Guidance on the Use of Models and Other Analyses in Attainment Demonstrations for the 8-Hour Ozone NAAQS.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
May 1999, 172p, EPA/454/R-99/004.
See also PB99-149858.
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This document recommends procedures for estimating if a control strategy to reduce emissions of ozone precursors will lead to attainment of the 8-hour national ambient air quality standard (NAAQS) for ozone. The document also describes how to apply air quality models to generate the predictions later used to see if attainment is shown. The guidance consists of two major parts. Part I addresses the question, 'how do I use the results of models and other analyses to help demonstrate attainment.' Part II of the guidance describes how to apply air quality models.

Keywords: *Ozone, *Air pollution standards, *Standards compliance, *Mathematical models, Ambient air quality, Air pollution abatement, Air pollution control, Pollution regulations, National Ambient Air Quality Standards, Meteorological data, Guidelines, Modeled Attainment Demonstration, Nonattainment.

PB99-157513REB PC A07/MF A02
Guidance for the Network Design and Optimum Site Exposure for PM2.5 and PM10.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
J. G. Watson, J. C. Chow, D. DuBois, M. Pitchford, M. Green, and N. Frank. 15 Dec 1997, 114p, EPA/454/R-99/022.
See also PB94-186020. Prepared in cooperation with Nevada Univ. System, Reno. Desert Research Inst. and National Oceanic and Atmospheric Administration, Las Vegas, NV.
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This guidance provides a method and rationale for designing monitoring networks to determine compliance with newly enacted PM 2.5 and PM 10 national ambient air quality standards. It defines concepts and terms of network design, presents a methodology for defining planning areas and community monitoring zones, identifies data resources and the uses of those resources for network design, and provides some practical examples of applying the guidance. Existing metropolitan statistical areas are first examined to determine where the majority of the people live in each state. These are then broken down into smaller populated entities which may include country, zip code, census tract, or census block boundaries. Combinations of these population entities are combined to define metropolitan planning areas. These may be further sub-divided into community monitoring zones, based on examination of existing PM measurements, source locations, terrain, and meteorology. Finally, PM 2.5 monitors are located at specific sites that represent neighborhood or urban scales to determine compliance with the annual standard and at maximum, population oriented locations for comparison with the 24-hour standard.

Keywords: *Air pollution monitors, *Networks, *Design, Air pollution monitoring, Air pollution sources, Emissions, Particulates, Public health, Risk assessment, Environmental exposure, Metropolitan statistical areas, Air pollution standards, Standards compliance, Methodology, PM-10, PM-2.5.

PB99-157794REB PC A03/MF A01
RED Facts: Chlorothalonil. Fact sheet.
Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances.
Apr 1999, 16p, EPA/738/F-99/008.
See also PB99-157802, PB87-247245 and PB87-113296.
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This fact sheet summarizes the information in the RED document for reregistration case 0097, chlorothalonil, or 2,4,5,6-tetrachloro isophthalonitrile. Chlorothalonil acts primarily as afungicide and mildewicide, but also has some activity as a bactericide, microbiocide, algaecide, insecticide, and acaricide. It is a broad spectrum, non-systemic pesticide. Chlorothalonil is registered on a widevariety of sites including field, vegetable, and orchard crops; turf; and as a mildewicide to be added to paint and other surface treatments.

Keywords: *Pesticides, Fungicides, Algaecides, Bactericides, Insecticides, Acaricides, Disinfectants, Biocides, Antimicrobial agents, Toxicity, Risk assessment, Humans, Animals, Exposure, Environmental transport, Chemical properties, Environmental impacts, Pollution regulations, Administrative procedures, Requirements, *Chlorothalinol, *Reregistration, 2-4-5-6-Tetrachloro isophthalonitrile, Polychlorinated aromatic compounds, Microbiocides, FQPA(Food Quality Protection Act), Use patterns, CAS 1897-45-6.

PB99-157802REB PC A17/MF A03
Reregistration Eligibility Decision (RED): Chlorothalonil. (Includes RED Facts: Chlorothalonil Fact Sheet).
Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances.
Apr 1999, 354p, EPA/738/R-99/004.
For Fact Sheet only, see PB99-157794.
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This document presents the Agency's decision regarding the reregistration eligibility of the registered uses of chlorothalonil, including the risk to infants and children for any potential dietary, drinking water, or dermal or oral exposures as stipulated under the FQPA. Secion I is the introduction. Section II describes chlorothalonil, 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 chlorothalonil. Section V discusses the reregistration requirements for chlorothalonil. Finally, Section VI is the Appendices which support this Reregistration Eligibility Decision.

Keywords: *Pesticides, Fungicides, Algaecides, Bactericides, Insecticides, Acaricides, Disinfectants, Biocides, Antimicrobial agents, Toxicity, Risk assessment, Humans, Animals, Exposure, Environmental transport, Chemical properties, Environmental impacts, Pollution regulations, Administrative procedures, Requirements, *Chlorothalinol, *Reregistration, 2-4-5-6-Tetrachloro isophthalonitrile, Polychlorinated aromatic compounds, Microbiocides, FQPA(Food Quality Protection Act), Use patterns, CAS 1897-45-6.

PB99-158628REB PC A11/MF A03
National Emission Standards for Hazardous Air Pollutants (NESHAP) Manufacturing Industry: Summary of Publice Comments and Responses.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Jul 1998, 210p, EPA/453/R-98/002.
See also PB99-112070.
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Clean Air Act as amended in 1990. Public comments were received from 46 sources consisting mainly of States, pharmaceutical manufacturers, industry trade associations, environmental groups, and other interested parties. All of the comments that were submitted and the responses to these comments are summarized in this document. This summary is the basis for the revisions made to the standards between proposal and promulgation.

Keywords: *Drug industry, *Air pollution standards, *Standards compliance, Air pollution sources, Air pollution control, Clean Air Act, Pollution regulations, Emissions, Industrial plants, Waste water treatment, Leaks, Equipment, Storage tanks, Vents, Monitoring, Requirements, Record keeping, Public comments, Responses, *NESHAP(National Emission Stnadards for Hazardous Air Pollutants), *National Emission Standards for Hazardous Air Pollutants, Pharmaceutical manufacturing, MACT(Maximum Achievable Control Technology), New Source Performance Sources, Pollution prevention.

PB99-158701REB PC A23/MF A04
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Nonmethane Organic Compounds (NMOC) and Speciated Nonmethane Organic Compounds (SNMOC) Monitoring Program, 1997. Final rept.
Eastern Research Group, Inc., Lexington, MA.
Jan 1999, 512p, EPA/454/R-99/016.
Contract EPA-68-D3-0095
See also PB99-155236. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
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In certain areas of the country where the National Ambient Air Quality Standard (NAAQS) for ozone is being exceeded, additional measurements of ambient Nonmethane Organic Compounds (NMOC) are needed to assist the affected states in developing revised ozone control strategies. Because of previous difficulty in obtaining accurate NMOC measurements, the U.S. Environmental Protection Agency (EPA) has provided monitoring and analytical assistance to these states, beginning in 1984 and continuing through the 1992 NMOC monitoring program.

Keywords: *Air pollution monitoring, National Ambient Air Quality Standards, Ozone, Air pollution standards, Standards compliance, Quantitative analysis, Air pollution sampling, Carbonyl compounds, Ecological concentration, Meteorological data, Air pollution monitors, Data acquisition, Data analysis, Data quality, Air pollution control, *Nonmethane organic compounds, *Speciated nonmethane organic compounds, Volatile organic compounds.

PB99-158818REB PC A02/MF A01
Pesticide Fact Sheet: 3-(N-Butyl-N- acetyl)-Aminopropionic acid, ethyl ester (IR3535).
Environmental Protection Agency, Washington, DC. Biopesticides and Pollution Prevention Div.
Feb 1999, 10p, EPA/730/F-99/003.
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This document contains up-to-date chemical information, including a summary of the Agency's regulatory position and rationale, on a specific pesticide or group of pesticides. A Fact Sheet is issued after registration of a new chemical.

Keywords: *Pesticides, *Insect repellents, *Registration, Insect control, Mosquitoes, Lice, Flies, Ticks, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental impacts, Chemical properties, Environmental transport, Pollution regulations, Administrative procedures, Pest control, *Three-(N-Butyl- N-acetyl)-aminopropionic acid ethyl ester, Use patterns.

PB99-160129REB PC A05/MF A01
Protecting Sources of Drinking Water: Selected Case Stduies in Watershed Management.
Environmental Protection Agency, Washington, DC. Office of Water.
Apr 1999, 52p, EPA/816/R-98/019.
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This document, produced by EPA and the Association of Metropolitan Water Agencies (AMWA), presents case studies of seventeen Public Water Systems (PWSs) which have incorporated source water management and protection programs into their planning. These studies emphasize four aspects of source water protection: partnerships, watershed assessment, watershed land use management, and land acquisition. All these efforts highlight the importance of cross-program coordination in local watershed management initiatives. Appendix B lists source water information sources available on the Internet.

Keywords: *Drinking water, *Sources, *Watershed management, *Case studies, Potable water, Water resources, Water quality management, Water pollution abatement, Environmental protection, Water management(Applied), Water systems, Public utilities, Land use planning.

PB99-160137REB PC A04/MF A01
Centers for Disease Control and Prevention, Atlanta, GA.
Health Effects from Exposure to Sulfate in Drinking Water Workshop. Held in Atlanta, Georgia on September 28, 1998.
Environmental Protection Agency, Washington, DC. Office of Water.
Jan 1999, 50p, EPA/815/R-99/002.
See also PB99-160137. Sponsored by Centers for Disease Control and Prevention, Atlanta, GA.
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EPA and Centers for Disease Control and Prevention (CDC) organized a workshop to present and discuss scientific studies conducted on the health effects of sulfate. The meeting was held in Atlanta, Georgia on September 28, 1998. This document summarizes the specific presentations and general discussions held at the workshop. Appendices include a workshop agenda and a list of participants.

Keywords: *Drinking water, *Health effects, *Sulfates, *Water pollution effects(Humans), Children, Infants, Ingestion(Physiology), Potable water, Intestines, Gastronintestinal system, Diarrhea, Case studies, Health hazards, Dose-response relationships, Risk assessment, Public health, Biochemistry, Meetings, Maximum Contaminant Level.

PB99-162414REB PC A17/MF A03
Environmental Protection Agency, Ann Arbor, MI. Office of Mobile Sources.
Application for Certification for Model Year 1999, Light-Duty Truck, Land Rover.
Land Rover Ltd., West Midlands (England).
17 Jun 1998, 358p.
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Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2: and Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9; It is ordered and resolved: That 1999 model-year Rover Group Limited Exhaust emission control systems are certified for medium-duty vehicles.

Keywords: *Internal combustion engines, *Exhaust emission control devices, *Certification, Evaporative emission control devices, Air pollution control, Air pollution abatement, Exhaust system inspection, Air pollution standards, Compliance, Light duty vehicles, Land Rover.

PB99-162422REB PC A10/MF A02
Environmental Protection Agency, Seattle, WA. Region X.
Asian and Pacific Islander Seafood Consumption Study in King County, WA. Exposure Information Obtained through a Community-Centered Approach. Study Results and Education Outreach.
Final rept.
NIEHS Center Community Outreach Programs, Seattle, WA.
R. Sechena, C. Nakano, S. Liao, S. Truong, R. Fenske, N. Polissar, and R. Lorenzana. 27 May 1999, 184p, EPA/910/R-99/003.
Grant EPA-EQ925003-01
This document has been reproduced from the best copy furnished. See also PB98-119100. Sponsored by Environmental Protection Agency, Seattle, WA. Region X.
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Described are Asian and Pacific Islander (API) seafood consumption rates, species, and seafood parts commonly consumed and cooking methods. Phase II, detailed in this report, was the characterization of seafood consumption patterns of ten API ethnic groups (Cambodian, Chinese, Filipino, Hmong, Japanese, Korean, Laotian, Mien, Samoan, and Vietnamese) within King County, Washington. A survey questionnaire was translated into the respondents' native languages. Phase III was the development of culturally appropriate health messages regarding seafood consumption risks and its dissemination to the API community.

Keywords: *Seafood, *Food consumption, *Food preparation, *Asian Americans, Shellfish, Fish Consumtion rates, Surveys, Demography, Ethnic groups, Filipinos, Chinese Americans, *Pacific Islanders, King County(Washington), Japanese, Cambodians, Koreans, Laotians, Samoans, Vietnamese, Mien, Hmong.

PB99-162430REB PC A20/MF A04
National Risk Management Research Lab., Ada, OK. Subsurface Protection and Remediation Div.
Groundwater Geochemistry of Area 6, Dover Air Force Base, Dover, Delaware.
Dow Chemical Co., Midland, MI. Health and Environmental Research Labs.
N. J. Klier, G. M. Klecka, E. J. Lutz, M. E. Witt, D. E. Ellis, and F. H. Chapelle. Apr 1999, 440p, EPA/600/R-99/051.
This document has been reproduced from the best copy furnished. See also AD-A227 087, AD-A227 301, PB95-963920/HDM, PB95-963917/HDM, PB95-963919/HDM, and PB95-963918/HDM. Prepared in cooperation with Du Pont de Nemours (E.I.) and Co., Wilmington, DE. Engineering - Coporate Remediation Group. and Geological Survey, Columbia, SC.
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This report reviews and interprets groundwater chemistry data collected at the Dover Air Force Base (AFB), Area 6, from July 1995 through March 1997. The work was conducted as part of the Remediation Technologies Development Forum (RTDF) Boremediation of Chlorinated Solvents Action Team field project on natural attenuation at Dover AFB. To characterize the groundwater chemistry, samples were taken on a triannual basis and analyzed for volatile organic compounds, light hydrocarbon gases, as well as conventional parameters and biogeochemical indicators. Groundwater was collected from a series of approximately 40 to 45 sets of paired (shallow and deep) monitoring wells located throughout the site at six different

sampling events - July 1995, November 1995, March 1996, July 1996, November 1996, and March 1997. Evaluation and interpretation of the data generated from these sampling events resulted in the development of a site conceptual model.

Keywords: *Ground water, *Water chemistry, *Water pollution sampling, *Biogeochemistry, Chemical analysis, Hydrocarbons, Plumes, Aquifers, Environmental transport, Spatial distribution, Biodegradation, Monitoring wells, Air Force facilities, Tables(Data), Maps, *Dover Air Force Base, Dover(Delaware), Kent County(Delaware), Natural attenuation, Bioremediation, Chlorinated solvents, Volatile organic compounds.

PB99-162448REB PC A15/MF A03
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Non-Methane Organic Compounds and Speciated Non-Methane Organic Compounds Monitoring Program, 1994. Final rept.
Radian Corp., Research Triangle Park, NC.
25 Jan 1996, 306p, DCN-96-650-008-03-01, EPA/454/R-99/013.
Contract EPA-68-D3-0095
Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
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Non-Methane Organic Compound (NMOC) and Speciated Non-Methane (SNMOC) sample collection systems were used to collect ambient air in eight areas from June through September where the National Ambient Air Quality Standards (NAAQS) for ozone may by exceeded. The NMOC and SNMOC program generally consists of several activities that include site coordination, equipment certification, installation, sample analysis, data reduction, validation and reporting, statistical analyses and data characterization, and formatting and submittal of the validation data to the Aerometric Information Retrieval System (AIRS). Non-methane hydrocarbons are reported for the base NMOC program. Seventy-eight compounds were targeted for the speciated NMOC base program and the speciated option to the NOC base program; thirty-eight compounds were targeted for the toxics option, and sixteen compounds were targeted for the carbonyls option. Statistical analysis includes number of occurrences, frequency percent, maximum, minimum, median, and mean concentrations. Standard deviation, skewness, and kurtosis are reported for the speciated, toxics, and carbonyl options. Sites in Long Island, New York, Newark and Plainfield, New Jersey, Birmingham, Alabama, and Fort Worth and El Paso, Texas, participated in the various programs and options.

Keywords: *Air pollution monitoring, National Ambient Air Quality Standards, Ozone, Air pollution standards, Standards compliance, Quantitative analysis, Air pollution sampling, Carbonyl compounds, Ecological concentration, Meteorological data, Air pollution monitors, Data acquisition, Data analysis, Statistical analysis, Data quality, Air pollution control, *Nonmethane organic compounds, *Speciated nonmenthanbe organic compounds, Volatile organic compounds.

PB99-162463REB PC A12/MF A03
Visibility Monitoring Guidance.
Environmental Protection Agency, Research Triangle Park, NC. Emissions, Monitoring, and Analysis Div.
Jun 1999, 234p, EPA/454/R-99/003.
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The purpose of this Visibilty Monitoring Guidance Document is to provide a written reference for organizations conducting monitoring of visibility and particulate matter for regulatory, planning, or research purposes. Possible users include the government sector (Federal, State, regional, local, and Tribal air quality agencies), industry, consulting firms, academia, or nonprofit organizations. The information in this document includes: background on the visibility protection requirements of the Clean Air Act and related regulations; a summary of visibility monitoring goals and objectives set forth in the Clean Air Act and related EPA regulations; considerations and recommendations for developing effective visibility monitoring sites, and networks, particularly for implementation of the monitoring requirements for the PM-2.5 and regional haze regulatory programs. These considerations and recommendations address visibility definitions and theory, monitoring goals and objectives, data quality objectives, monitoring methods, data archive and data applications, and network design; and descriptions of current visibility measurement methods and monitoring protocols, particularly those used under the Interagency Monitoring of Protected Visual Environments (IMPROVE) program.

Keywords: *Visibility, *Air pollution monitoring, *Guidance, Optical measurement, Light scattering, Optical properties, Haze, Extinction, Ambient air quality, Relative humidity, Aerosols, Nephelometers, Photographic analysis, Regulations, Clean Air Act, Data collection, Data analysis, Data quality, Quality assurance.

PB99-162471REB PC A16/MF A03
Environmental Protection Agency, Research Triangle Park, NC. National Exposure Research Lab.
Laboratory Evaluation of Six New/Modified Portable X-ray Fluorescence Spectrometers for the Measurement of Lead in Characterized Paint Films and Research Material Boards. Volume 1. Technical Report.
Research Triangle Inst., Research Triangle Park, NC.
E. E. Williams, C. A. Clayton, E. D. Hardison, and W. F. Gutknecht. Apr 1999, 340p, EPA/600/R-97/100A.
Contracts EPA-68-02-4544, EPA-68-D5-0040
See also PB97-126437 and Volume 2, PB99-162489.
Sponsored by Environmental Protection Agency, Research Triangle Park, NC. National Exposure Research Lab.
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This report describes a study performed as part of step three of the AREAL technology evaluation in 1994-1995 by RTI. The study's purpose was to identify and estimate the influence of key characteristics for evaluating the performances of portable X-ray fluorescence (XRF) spectrometers of various configurations and software. RTI evaluated the performance of the following spectrometers that were either new to the market in 1994 or were modifications of an existing model: HNU SEFA-Pb (HNU Systems, Newton, MA), K- and L-shells; Metorex X-MET 880 (Metorex, Inc., Bend, OR), L-shell; Niton XL (Niton Corporation, Bedford, MA), L-shell; Radiation Monitoring Devices; (RMD) Lead Paint Analyzer-1 (LPA-1)(Radiation Monitoring Devices, Inc., Watertown, MA), K-shell; TN Technologies Pb Analyzer (TN Technologies, Round Rock, TX), K- and L-shells; and Xsirius (now Avanced Detectors) LeadStar (Xsirius, Camarillo, CA), K- and L-Shells; The study was divided into two parts--a screening analysis and a comprehensive or full analysis. the screening analysis was performed to identify any major problems associated with spectrometric measurements.

Keywords: *X-ray fluorescence analyzers, *Spectroscopic analysis, *Lead(Metal), *Paints, *Fiberboards, *Portable equipment, *Labortatory test, X-ray spectrometers, X-ray spectroscopy, Detectors, Films, Substrates, Performance evaluation, Quantitative analysis, Qualitative analysis, Performance test, Screening, Statistical analysis, *Standard reference materials, AREAL(Atmospheric Research and Exposure Assessment Laboratory), RTI(Research Triangle Institute).

PB99-162489REB PC A99/MF A06
Environmental Protection Agency, Research Triangle Park, NC. National Exposure Research Lab.
Laboratory Evaluation of Six New/Modified Portable X-ray Fluorescence Spectrometers for the Measurement of Lead in Characterized Pain Films and Research Material Boards. Volume 2. Appendices.
Research Triangle Inst., Research Triangle Park, NC.
E. E. Williams, C. A. Clayton, E. D. Hardison, and W. F. Gutknecht. Apr 1999, 638p, EPA/600/R-97/100B.
Contracts EPA-68-02-4544, EPA-68-D5-0040
See also Volume 1, PB99-162461. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. National Exposure Research Lab.
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Table of Contents:
Appendics;
(A) HNU SEFA-Pb Data;
(B) Metorex X--MET 880 Data;
(C) Niton XL Data;
(D) RMD LPA-1 Data;
(E) TN Technologies Spectrace Pb Analyzer Data;
and (F) Xsirius (now Advanced Detectors) LeadStar Data.

Keywords: *X-ray fluorescence analyzers, *Spectroscopic analysis, *Lead(Metal), *Paints, *Fiberboards, *Portable equipment, *Labortatory test, X-ray spectrometers, X-ray spectroscopy, Detectors, Films, Substrates, Performance evaluation, Quantitative analysis, Qualitative analysis, Performance test, Screening, Statistical analysis, *Standard reference materials, AREAL(Atmospheric Research and Exposure Assessment Laboratory), RTI(Research Triangle Institute).

PB99-162836REB PC A04/MF A01
Environmental Outcome-Based Management: Using Environmental Goals and Measures in the Chesapeake Bay Program.
Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.
Jul 1999, 42p, EPA/903/R-99/014, CBP/TRS-223/99.
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Table of Contents:
Forward;
Table of Contents;
Introduction;
Establishing Environmental Outcome-Based Management;
Chesapeake Bay Program Environmental Indicators;
Managing for Environmental Results;
Future Directions;
and Appendices.

Keywords: *Environmental protection, *Natural resources management, *Watershed management, Environment management, Environmental monitoring, Biological indicators, Environmental impact assessments, Planning, Program administration, Program management, Goals, *Chesapeake Bay Program, Middle Atlantic Region(United States).

PB99-162844REB PC A07/MF A02
Targeting Toxics: A Characterization Report. A Tool for Directing Management and Monitoring Actions in the Chesapeake Bay's Tidal Rivers. A Technical Workplan.
Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.
Jun 1999, 112p, EPA/903/R-99/011, CBP/TRS-222/107.
See also PB95-155248 and PB99-149114.
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This report details the chemical contaminant and biological data used in the characterization, how the workgroup analyzed the data, the thresholds used to interpret the data, and how the workgroup made final decisions. It also addresses limitations to the characterization and recommendations for improving characterizations in the future.

Keywords: *Chesapeake Bay, *Tidal waters, *River basins, *Water quality management, *Toxicity, Tidal streams, Rivers, Water pollutants, Toxic substances, Hazardous materials, Environment management, En-

vironmental monitoring, Bioaccumulation, Characterization, Water pollution control, Water pollution abatement, Data collection, Chesapeake Bay Program.

PB99-162950REB PC A15/MF A03
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Air Dispersion Modeling of Toxic Pollutants in Urban Areas: Guidance, Methodology, and Applications.
EC/R, Inc., Chapel Hill, NC.
Jul 1999, 312p, EPA/454/R-99/021, EPA/454/R-99/021.
Contract EPA/68D98006
See also PB96-180518 and PB97-147912. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
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This Report provides guidance on how to use the Industrial Source Complex Short Term (ISCST3) model to estimate concentrations of air toxic pollutants for urban-wide analyses. Urban areas contain major sources and numerous smaller, area sources. As a result modeling analyses poses special challenges. Section 1 provides guidance and recommendations on specific issues for urban-wide analyses of air toxics. Section 2 provides an overview of two applications of the Industrial Source Complex Short Term (ISCST3) model to urban-wide studies. Appendices A and B provide demonstration of the methodology for two example applications.

Keywords: *Air pollution dispersion, *Urban areas, *Diffusion modeling, Air pollutants, Toxic substances, Emissions, Formaldehyde, Polycyclic aromatic hydrocarbons, Benzene, Butadienes, Ozone, Atmospheric diffusion, Environmental transport, Computerized simulation, Mathematical models, Hazardous air pollutants, Emission inventories, Houston(Texas), Phoenix(Arizona), ISCST3 computer model, Hexavalent chromium.

PB99-162968REB PC A23/MF A04
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Nonmethane Organic Compound (NMOC) and Speciated Nonmethane Organic Compound (SNMOC) Monitoring Program. Volume 1. Final rept.
Eastern Research Group, Inc., Lexington, MA.
Nov 1997, 504p, EPA/454/R-99/015.
Contract EPA-68-D3-0095
See also PB99-155277 and PB99-158701. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
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The Nonmethane Organic Compound (NMOC)/Speciated Nonmethane Organic Compound (SNMOC) monitoring program is designed to characterize the magnitude and composition of air pollution in areas that are not in attainment with the National Ambient Air Quality Standard (NAAQS) for ozone. In particular, the program measures concentrations of four different categories of air pollutants that contribute to a series of photochemical reactions known to form ozone. the 1996 monitoring program collected ambient air samples at 15 locations across the country. Samples were collected from 6:00 to 9:00 AM, because some regional air quality models require concentrations over this time frame as a critical input. The data indicate the following general trends and patterns in ambient air quality: total nonmethane organic compounds (NMOC); speciated nonmethane organic compounds (SNMOC); volatile organic compounds (VOC); carbonyl compounds.

Keywords: *Air pollution sampling, *Statistical data, *Urban areas, Chemical analysis, Biological concentration, Gas chromatography, Mass spectroscopy, Flame ionization, National Ambient Air Quality Standards, Carbonyl compounds, Ozone, Air pollution monitoring, Detectors, Data quality, Data acquisition, Data analysis, Quality assurance, Quality control, Tables(Data), Nonmethane organic compounds, Volatile organic compounds, Speciated nonmethane organic compounds.

PB99-162976REB PC A11/MF A03
Regulatory Impact Analysis for the NOx SIP Call, FIP, and Section 126 Petitions. Volume 1: Costs and Economic Impacts.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Sep 1998, 216p, EPA/452/R-98/003A.
See also Volume 2, PB99-162984.
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EPA has finalized the nitrogen oxides (NOx) State implementation plan (SIP) call rule. The 'NOx SIP call' requires selected eastern States to take actions to reduce emissions of NOx that contribute to nonattainment of ozone standards in downwind States. This Regulatory Impact Analysis (RIA) and associated analyses are intended to generally inform the public about the potential costs and economic impacts that may result from this scenario. At the same time that EPA promulgates the NOx SIP call, EPA is proposing NOx Federal implementation plans (FIPs) that may be needed if any State fails to comply with the final NOx SIP call. EPA is also proposing a response to Section 126 petitions which were filed by eight northeastern States asking EPA to address air pollution transported from upwind States. Pursuant to Executive Order 12866, this RIA presents the potential costs and economic impacts of these rulemakings.

Keywords: *Nitrogen oxides, *Air pollution standards, *Pollution regulations, Ozone, Air pollution control, Air pollution abatement, Emissions, Air pollution sources, National Ambient Air Quality Standards, Standards compliance, Clean Air Act, Requirements, Sectoral analysis, Economic impacts, Alternatives, *Regulatory impact analysis, *Eastern Region(United States), *Section 126 permits, SIP(State Implementation Plan), FIP(Federal Implementation Plan).

PB99-162984REB PC A10/MF A02
Regulatory Impact Analysis for the NOx SIP Call, FIP, and Section 126 Petitions. Volume 2: Health and Welfare Benefits.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Dec 1998, 182p, EPA/452/R-98/003B.
See also Volume 1, PB99-162976.
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This document presents a Regulatory Impact Analysis for the final NOx SIP call rule, which addresses regional transport issues related to ozone attainment. This analysis expands and updates the previous analyses, to reflect the provisions of the final rule and to provide analysis of the potential benefits and economic impacts as well as the costs, emissions reductions and air quality impacts associated with the rule.

Keywords: *Nitrogen oxides, *Health effects, *Environmental effects, *Air pollution standards, *Pollution regulations, Ozone, Air pollution control, Air pollution abatement, Emissions, Air pollution sources, National Ambient Air Quality Standards, Standards compliance, Clean Air Act, Requirements, Sectoral analysis, Economic impacts, Alternatives, *Regulatory impact analysis, *Eastern Region(United States), *Section 126 permits, SIP(State Implementation Plan), FIP(Federal Implementation Plan).

PB99-163057REB PC A06/MF A01
Evaluation of Application for Approval of Alternative Methodology for Compliance with the NESHAP for Shipbuilding and Ship Repair and Recommended Requirements for Compliance. (Application Submitted by Metro Machine Corporation, Norfolk, Virginia). Final rept.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
M. A. Serageldin. Jul 1999, 92p, EPA/453/R-99/005.
See also PB98-143407.
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The U.S. Environmental Protection Agency is providing background information that supports the use of Metro Machine Corporation's (MMC) compliant all position enclosure (CAPE) plus air management system and regenerative thermal oxidizer (RTO)(CAPE + RTO System) as an alternative means of limiting the emissions of volatile organic hazardous air pollutants per volume of applied solids (nonvolatiles). This document also explains how the authors arrived at the operating, recordkeeping, and reporting conditions that MMC must meet for approval. The add-on control system they used consists of a pollution capture unit operation (CAPE) plus air management system and a destruction unit operation (RTO). When operated according to the specified procedures, it will control emissions to a level no greater than that from using coatings which comply with the limits in Table 2 of 40 CFR Part 63, Subpart II.

Keywords: *Shipbuilding, *Air pollution control equipment, *Alternatives, Surface coating, Painting, Record keeping, Reporting, Air pollution standards, Standards compliance, Requirements, *Ship repair, Volatile organic compounds, Marine coatings, Thermal oxidizers, NESHAP(National Emission Standards for Hazardous Air Pollutants), National Emission Standards for Hazardous Air Pollutants.

PB99-163065REB PC A03/MF A01
Emissions of Polychlorinated Biphenyls as Products of Incomplete Combustion from Incinerators. Rept. for Oct 98-Mar 99.
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
P. M. Lemieux, C. W. Lee, J. D. Kilgroe, and J. V. Ryan. 1999, 16p, EPA/600/A-99/051.
Presented at the International Conference on Incineration and Thermal Treatment Technologies, Orlando, FL., May 10-24, 1999. See also PB96-153432.
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The paper discusses emissions of polychlorinated biphenyls (PCBs) as products of incomplete combustion from incinerators. PCBs were used widely as industrial chemicals, particularly as additives in electrical transformer cooling oil. PCBs are still being released into the environment as an unwanted by-product of combustion processes, particularly those associated with chlorinated materials. A subset of PCBs, coplanar isomers, exhibit biological activity similar to that of polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans (PCDDs/PCDFs), a widely recognized byproduct of combustion processes. The paper presents background information on some of the combustion sources that generate PCBs.

Keywords: *Polychlorinated biphenyls, *Combustion products, *Incinerators, Emissions, Isomers, Aroclors, Carcinogens, Air pollution sources, Combustion kinetics, Aromatics, Chlorine organic compounds, *Products of Incomplete Combustion.

PB99-163073REB PC A03/MF A01
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
Procedure for Estimating Permanent Total Enclosure Costs. Rept. for Dec 98-Feb 99.
Pacific Environmental Services, Inc., Herndon, VA.
M. E. Lukey, C. Prasad, D. A. Toothman, and N. Kaplan. 1999, 22p, EPA/600/A-99/050.
Presented at the Air and Waste Management Association annual meeting, St. Louis, MO., June 20-24, 1999. See also PB97-159644. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
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The paper discusses a procedure for estimating permanent total enclosure (PTE) costs. The methodology for estimating PTE costs follows the approach used for other control devices discussed in EPA's Control Cost Manual. It includes procedures for sizing various components of a PTE and for estimating capital and annual costs. It contains verification procedures for demonstrating compliance with EPA's five-point criteria. In addition, procedures are included to determine compliance with Occupational Safety and Health Administration (OSHA) standards. The methodology is encoded in Microsoft Excel spreadsheets to facilitate cost estimation and PTE verification. Examples are given throughout the methodology development and in the spreadsheets to illustrate the PTE design, verification, and cost estimation procedures.

Keywords: *Cost estimation, *Air pollution equipment, Enclosures, Air pollution standards, Standards compliance, Design criteria, Verification, Capitalized costs, Maintenance costs, Cost analysis, Procedures, *Permanent Total Enclosures.

PB99-163081REB PC A03/MF A01
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
Mercury Speciation in Combustion Systems: Studies with Simulated Flue Gases and Model Fly Ashes. Rept. for Apr 97-Sep 98.
ARCADIS Geraghty and Miller, Inc., Research Triangle Park, NC.
S. B. Ghorishi, C. W. Lee, and J. D. Kilgroe. 1999, 20p, EPA/600/A-99/049.
Contract EPA-68-D4-0005
Presented at the Air and Waste Management Association annual meeting, St. Louis, MO., June 20-24, 1999. See also DE91527217 and PB99-144347. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
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The paper gives results of a bench-scale study of the effects of flue gas and fly ash parameters on the oxidation of elemental mercury in simulated flue gases containing hydrogen chloride (HCl), nitric oxide (NO), nitrogen dioxide (NO2), sulfur dioxide (SO2), and water vapor (H2O). Gas-phase studies indicated that elemental mercury, in the presence of these gaseous species, oxidizes very slowly at low to moderate temperatures (25-350 C). In the presence of HCl, elemental mercury oxidation proceeds at measurable rates only at high temperatures (>700 C) and high HCl concentrations (>200 ppm). SO2 and H20 in the simulated flue gas significantly inhibits the gas-phase oxidation of elemental mercury in the presence of HCl. The effects of fly ash composition were investigated using a fixed bed containing model fly ashes consisting of mixtures of major components found in coal fly ashes. Work to date has focused on the potential catalytic oxidation of elemental mercury in a temperature range of 150-250 C by two- and three-component model fly ashes composed of mixtures of alumina, silica, ferric oxide, cupric oxide, and calcium oxide.

Keywords: *Flue gases, *Fly ash, *Mercury(Metal), *Combustion kinetics, Combustion products, Oxidation, Combustion chemistry, Hydrogen chloride, Nitrogen oxides, Sulfur dioxide, Water vapor, Chemical reactivity, Air pollution monitoring.

PB99-163099REB PC A04/MF A01
Genetically Engineered Plants in the Environment:Applications and Issues. Technical rept.
National Health and Environmental Effects Research Lab., Corvallis, OR.
L. S. Watrud. 1999, 50p, EPA/600/A-99/047.
See also PB99-146565.
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The objectives of the review are to: (1) provide a brief summary of the major proposed applications of engineered plants, (2) highlight published results on their potential non-target effects, (3) suggest points to consider in developing and releasing engineered plants, (4) propose research needed to identify potential long term effects of releasing engineered plants and (5) briefly discuss potential impacts of regulations, intellectual property rights and public acceptance on the development, safety evaluation and commercialization of engineered plant products.

Keywords: *Transgenic plants, *Environmental effects, *Agronomy, Plant genetics, Genetic engineering, Plant ecology, Soil-water-plant relationships, Soil microorganisms, Invertebrates, Microcosms, Health effects, Risk assessment, Economic impact, Non-target effects.

PB99-163107REB PC A03/MF A01
Delineation of Pacific Northwest SAVs from Aerial Photography: Natural Color or Color Infrared Film. Technical rept.
National Health and Environmental Effects Research Lab., Corvallis, OR.
D. R. Young, D. T. Specht, B. D. Robbins, and P. J. Clinton. 1999, 12p, EPA/600/A-99/048.
See also PB95-232484. Prepared in cooperation with OAO Corp., Newport, OR.
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The study was conducted within a PNW estuary to determine the utility of false-color infrared film versus natural (true) color-negative film for recognizing and quantifying submersed aquatic vegetation (SAV) growing on an intertidal flat. During the summer of 1997 aerial photographs were obtained of Yaquina Bay, or during a negative tidal event using both infrared and true color film (scale 1:7200). SAV distributions were delineated from digital orthorectified images derived from both film types, using a digital classification approach as well as a traditional photointerpretation approach. A field survey of 160 sites was conducted within one week of the aerial flights. The detection of SAV and bare substrate was compared among all methods using an accuracy assessment technique base don the ground survey data. Resultant accuracy assessment values were similar for both film types. However, the digital classification obtained for Yaquina Bay, Oregon, using the color infrared film was judged to be preferable to that obtained from the natural film.

Keywords: *Submerged plants, *Aquatic plants, *Pacific Northwest(US), *Aerial photography, Color photography, Color infrared photography, Yaquina Bay, Oregon, Intertidal areas, Classifications, Quantitative analysis, Vegetation, Estuaries, Vegetative index, Photointerpretation, Digital techniques, Geometric rectification(Imagery).

PB99-163115REB PC A03/MF A01
Analysis of Trace-Level Organic Combustion Process Emissions Using Novel Multidimensional Gas Chromatography-Mass Spectrometry Procedures.
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
W. A. Rubey, R. C. Striebich, and J. V. Ryan. 1999, 16p.
Details in illustrations may not be fully legible in microfiche. See also PB97-118533. Prepared in cooperation with Dayton Univ. Research Inst., OH. Environmental Sciences and Engineering Lab.
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This paper outlines the application of the MDGC-MS technique through the analyses of various incinerator effluent and PIC samples using the sequential repetitive heart-cutting method and discusses the improvements that are possible using new MDGC-MS procedures.

Keywords: *Combustion products, *Trace amounts, *Emissions, *Gas chromatography, *Mass spectroscopy, Combustion kinetics, Organic compounds, Air pollution sampling, Quantitative chemical analysis, Analytical methods, Spectroscopic analysis, Chromatographic analysis, PIC(Products of Incomplete Combustion).

PB99-163123REB PC A03/MF A01
Characterization of Organic Emissions from Hazardous Waste Incineration Processes under the New EPA Draft Risk Burn Guidance: Measurement Issues.
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
J. V. Ryan, P. M. Lemieux, K. Pollard, J. Yurk, R. Workman, and B. Antley. 1999, 16p.
See also PB88-239223 and PB91-145979.
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EPA's recently published draft Risk Burn Guidance recommends that hazardous waste combustion facilities complete a mass balance of the total organics (TOs) that may be emitted from the combustor. TOs, consisting of three distinct fractions (volatile, semivolatile, and nonvolatile organic compounds) are determined using measurement techniques specific to the boiling point (bp) range of each component. Preliminary scoping tests have been performed to gain further knowledge of the total chromatographable organics (TCO) and gravimetric analysis (GRAV) procedures used to determine the semivolatile and nonvolatile organic fractions. A commercially prepared Method 8270 semivolatile organic standard solution, made up of 112 compounds containing a variety of halogenated, oxygenated, nitrogenated, and sulfonated hydrocarbons, in addition to those hydrocarbons containing only carbon and hydrogen, was used to assess the accuracy of the TCO and GRAV methods. Additional tests were performed to verify that the semivolatile organic mass was not redundantly measured by the GRAV procedure.

Keywords: *Hazardous wastes, *Incineration, *Air pollution sampling, *Combustion products, Incinerators, Combustors, Emissions, Chemical analysis, Combustion kinetics, Gravimetric analysis, Chromatographic analysis, Waste treatment, Risk analysis, Volatile organic compounds, Semivolatile organic compounds, Nonvolatile organic compounds.

PB99-163131REB PC A04/MF A01
Fine Particle Emissions from Residual Fuel Oil Combustion: Characterization and Mechanisms of Formation.
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
W. P. Linak, C. A. Miller, and J. O. L. Wendt. 1999, 46p.
Presented at the International Conference on Technologies and Combustion for a Clean Environment (5th), Lisbon, Portugal, July 12-15, 1999. See also PB88-198551, PB97-115406 and PB99-121477. Prepared in cooperation with Arizona Univ., Tucson. Dept. of Chemical and Environmental Engineering.
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The characteristics of particulate matter (PM) emitted from residual fuel oil combustion in two different types of combustion equipment were compared. A small commercial 732 kW rated fire-tube boiler yielded a weakly bimodal particulate size distribution (PSD) with over 99% of the mass contained in a broad coarse mode, and only a small fraction of the mass in an accumulation mode consistent with ash vaporization. Larger scale utility units firing residual oil were simulated using an 82 kW laboratory refractory-lined furnace, PM emissions from this unit were in good agreement with published data data including published emission factors. These data indicated that the refractory-lined combustor produced lower total but greater fine particulate emissions, as evident from a single unimodal PSD centered approximately around 0.1 micrometers diameter. These results have particular significance in considering the effects of fuel oil combustion equipment type on the characteristic attributes of the fine PM emitted into the atmosphere, and their ensuing health effects.

Keywords: *Particulates, *Fuel oils, *Combustion products, *Air pollution sampling, Fire tube boilers, Combustors, Industrial furnaces, Residual fuels, Ashes, Particle size distribution, Emissions, Char, Combustion

efficiency, Burning, Emission factors, Combustion products.

PB99-163149REB PC A03/MF A01
Evaluation of Emissions from Combustion of Orimulsion.
Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab.
R. E. Hall, C. A. Miller, and R. K. Srivastava. 1999, 20p.
See also PB99-139446.
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Orimulsion, an emulsion formed from Orinoco bitumen, water, and small amounts of additives, is being used as a primary fuel in electric utility boilers representing about 2000 MWe of generating capacity in Canada, Denmark, Italy, Japan, and Lithuania. In general, compared to other fossil fuels, Orimulsion has higher concentrations of sulfur, vanadium, and nickel and includes a number of other trace metals and radionculides. In response to a 1997 Congressional directive, EPA has developed an Orimulsion Technology Assessment Plan, designed to examine potential environmental and health impacts that may result from combustion of Orimulsion. Described in this paper is the Plan as well as background information on Orimulsion.

Keywords: *Combustion products, *Emissions, *Electric power generation, *Fuels, Boilers, Electric utilities, Bitumens, Water, Additives, Air pollution sources, Combustion kinetics, Chemical analysis, Environmental impacts, Health hazards, *Orimulsion.

PB99-163156REB PC A03/MF A01
Pollution Prevention and the Use of Low-VOC/HAP Coatings at Wood Furniture Manufacturing Facilities.
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
A. M. Marshall, J. L. Spaight, and J. W. Jones. 1999, 16p.
See also PB98-100811/XAB and PB96-178884/HDM and PB96-178769/HDM. Prepared in cooperation with Midwest Research Inst., Cary, NC.
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Midwest Research Institute, under a cooperative agreement with the Air Pollution Prevention and Control Division of the U.S. Environmental Protection Agency's (EPA's) National Risk Management Research Laboratory, is conducting a study to identify wood furniture and cabinet manufacturing facilities that have converted to low-voltage organic compound/hazardous air pollutant (VOC/HAP) coatings and to develop case studies for those facilities. This paper discusses the progress of the project and pollution prevention options at wood furniture manufacturing facilities and the regulatory requirements (e.g., the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Wood Furniture Manufacturing Operations) that these facilities face.

Keywords: *Furniture industry, *Wood products industry, *Emissions, Wood finishing, Surface coating, Coating processes, Air pollution sources, Emission factors, Air pollution abatement, Material substitution, Pollution regulations, Requirements, Alternatives, Case studies, *Volatile organic compounds, *Hazardous air pollutants, NESHAP(National Emission Standards for Hazardous Air Pollutants).

PB99-163172REB PC A11/MF A03
National Emission Standards for Hazardous Air Pollutants (NESHAP) for Pesticide Active Ingredient Production: Summary of Public Comments and Responses. Final rept.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
May 1999, 214p, EPA/453/R-98/011.
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The U.S. Environmental Protection Agency (EPA) proposed national emission standards for hazardous air pollutants (NESHAP) for pesticide active ingredient (PAI) production under authority of Section 112 of the Clean Air Act. Public comments were received from 34 sources consisting mainly of PAI manufacturers, trade associations, and other interested parties. All the comments that were submitted and the responses to these comments are summarized in this document. This summary is the basis for the revisions made to the standards between proposal and promulgation.

Keywords: *Pesticides, *Air pollution standards, *Standards compliance, *Manufacturing, Air pollution control, Clean Air Act, Industrial plants, Vents, Storage tanks, Equipment, Leaks, Waste water, Dryers, Air pollution sources, Monitoring, Environmental impacts, Economic impact, Record keeping, Reporting, *Active ingredients, *NESHAP(National Emission Standards for Hazardous Air Pollutants), *National Emission Standards for Hazardous Air Pollutants, Public comments, Responses.

PB99-163396REB PC A17/MF A03
Environmental Protection Agency, Washington, DC. Office of Enforcement and Compliance Assurance.
Kraft Pulp Mill Compliance Assessment Guide (Includes: CAA, CWA, RCRA and EPCRA).
Eastern Research Group, Inc., Morrisville, NC.
May 1999, 366p, EPA/310/B-99/001.
Contract EPA-68-C5-0013
Prepared in cooperation with Quarles (Perrin) Associates, Inc., Charlottesville, VA. Sponsored by Environmental Protection Agency, Washington, DC. Office of Enforcement and Compliance Assurance.
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This guide to compliance with four primary federal environmental laws simplifies the work of compliance inspectors and auditors by explaining and mapping out the regulatory requirements that apply to Kraft pulp mills under the Clean Air Act (CAA), the Clean Water Act (CWA) (including the 'cluster rule'), the Resource Conservation and Recovery Act, and the Emergency Planning and Community Right-to-Know Act. The guide is written with clear links between manufacturing processes, sources of pollution, regulatory requirements, and compliance evaluations. These links are created through schematic illustrations, comparative tables, checklists, and references to additional resources. Air pollutants associated with pulp mills include: total reduced sulfur (TRS), particulate matter (PM), volatile organic compounds (VOC), sulfur dioxide (SO2), nitrogen oxides (NOx), and hazards air pollutants (HAP). Water pollutants include: biological oxygen demand (BOD), chemical oxygen demand (COD), total suspended solids (TSS), adsorbable organic halides (AOX), and organo-chlorine compounds (e.g., dioxins and furans).

Keywords: *Kraft paper, *Sulfate pulping, *Paper industry, *Water pollution standards, *Regulatory guides, Paper mills, Pulp mills, Wood products, Industrial production, Clean Water Act, Pollution regulations, Environmental law, Standards compliance, Requirements, Pollution sources, Sulfur dioxide, Particulates, Nitrogen oxides, Biochemical oxygen demand, Chemical oxygen demand, Suspended solids, Halides, Chlorine organic compounds, Furans, Dioxins, RCRA(Resource Conservation and Recovery Act), EPCRA(Emergency Planning and Community Right-to-Know Act), Hazardous air pollutants, Chemical recovery, Reduced sulfur.

PB99-163453REB PC A99/MF A06
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Iron and Steel Foundaries Manual Emissions Testing of Cupola Baghouse at Waupaca Foundry in Tell City, Indiana. Volume 1 of 2. Report Text and Appendices A and B. Final rept.
Pacific Environmental Services, Inc., Research Triangle Park, NC.
F. Meadows, and D. F. Scheffel. Jun 1999, 594p, EPA/454/R-99/017A.
Contract EPA-68-D-70069
See also Volume 2, PB99-163461. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
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The U.S. Environmental Protection Agency (EPA) Emission Standards Division (ESD) 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. The Waupaca Foundry, located in Tell City, Indiana, uses a baghouse and was the subject of this test program. Testing at the Waupaca Foundry was conducted by two EMAD contractors to address the following ESD requirements: (1) characterize HAP emissions from cuplas that are controlled by baghouses; (2) characterize uncontrolled HAP emissions from pouring, cooling, and shakeout (PCS) processes; (3) determine baghouse performance in controlling HAP emissions from cupolas; and (4) identify surrogates for estimating HAP emissions from the subject foundary processes.

Keywords: *Iron and steel industry, *Foundries, *Air pollution sampling, *Exhaust gases, Particulates, Dioxins, Furans, Metals, Stack gases, Cupolas, Baghouses, Foundary practice, Air pollution control equipment, Analytical methods, Measurement, Data acquisition, Data analysis, Quality assurance, Quality control, Tell City(Indiana), Perry County(Indiana), Semivolatile organic compounds, Hazardous air pollutants, EMAD(Emissions Monitoring and Analysis Division).

PB99-163461REB PC A24/MF A04
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Iron and Steel Foundries Manual Emissions Testing of Culpola Baghouse at Waupaca Foundry in Tell City, Indiana. Volume 2 of 2. Appendices C-F. Final rept.
Pacific Environmental Services, Inc., Research Triangle Park, NC.
F. Meadows, and D. F. Scheffel. Jun 1999, 530p, EPA/454/R-99/017B.
Contract EPA-68-D-70069
See also Volume I, PB99-163453. 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 - Dioxins/Furans and Semi-Volatile Organic Hazardous Air Pollutants;
Appendix D - Calculations;
Appendix E - QA/QC Data;
and Participants.

Keywords: *Iron and steel industry, *Foundries, *Air pollution sampling, *Exhaust gases, Particulates, Dioxins, Furans, Metals, Stack gases, Cupolas, Baghouses, Foundary practice, Air pollution control equipment, Analytical methods, Measurement, Data acquisition, Data analysis, Quality assurance, Quality control, Tell City(Indiana), Perry County(Indiana), Semivolatile organic compounds, Hazardous air pollutants, EMAD(Emissions Monitoring and Analysis Division).

PB99-164725REB PC A09/MF A02
Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics.
Constructive Engagement Resource Guide: Practical Advice for Dialogue Among Facilities, Workers, Communities and Regulators.
CDR Associates, Boulder, CO.
B. S. Mayer, S. Ghais, and J. A. McKay. Jun 1999, 164p, EPA/745/B-99/008.
Contract EPA-68W40001
See also PB96-163993. Prepared in cooperation with Resolve, Inc., Washington, DC. Sponsored by Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics.

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The Constructive Engagement Resource Guide arose from the Computers and Electronics Sector Subcommittee of the EPA's Common Sense Initiative. The resource guide examines the nature of Constructive Engagement and the opportunities and challenges it offers to communities, industry, regulators, and workers. It presents a practical discussion of how to evaluate whether to use Constructive Engagement and how to create and conduct an effective Constructive Engagement process. The guide is targeted to the computer and electronics sector and related stakeholders, but the advice presented is transferable to other arenas. In preparing this guide, eleven diverse Constructive Engagement cases were studied, some through a literature review, others through interviews with participants. Several people involved in Constructive Engagement efforts were also interviewed to develop this guide. The major lessons learned from this research form the foundation of the resource guide.

Keywords: *Communication management, *Conflict resolution, *Problem solving, *Negotiations, Computer industry, Electronics industry, Facilities management, Industrial production, Industrial plants, Solutions(General), Occupational safety and health, Environmental protection, Environmental health, Pollution control, Waste management, Decision making, Cost benefit analysis, Government/industry relations, Case studies, *Constructive engagement, Pollution prevention.

PB99-164808REB PC A12/MF A03
EPA/ITRC-RTDF Permeable Reactive Barrier Short Course. Permeable Reactive Barriers: Application and Deployment.
Environmental Protection Agency, Washington, DC.
1999, 242p.
See also PB99-105702.
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Table of Contents:
- Permeable Reactive Barriers:
- Application and Deployment;
- Introduction to Permeable Reactive Barriers (PRBs) for Remediating and Managing Contaminated Groundwater in Situ;
- Collection and Interpretation of Design Data I:
- Site Characterization for PRBs;
- Reactive Materials:
- Zero-Valent Iron;
- Collection and Interpretation of Design Data II:
- Laboratory and Pilot Scale Tests;
- Design Calculations;
- Compliance Monitoring, Performance Monitoring and Long-Term Maintenance for PRBs;
- PRB Emplacement Techniques;
- PRB Permitting and Implementation;
- Treatment of Metals;
- Non-Metallic Reactive Materials;
- Economic Considerations for PRB Deployment;
- and Bibliography.

Keywords: *Water pollution control, *Ground water, Water treatment, Chemical reactivity, Permeability, Plumes, Metals, Remediation, Site characterization, Installation, Design, Maintenance, Monitoring, Performance, Compliance, Economic analysis, Training, *Permeable reactive barriers, Zero-valent iron.

PB99-165136REB PC A05/MF A01
Center for Chesapeake Communities' Summit Report. Toward a Sustainable Chesapeake. Held in Baltimore, Maryland on March 21-23, 1999.
Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.
1999, 74p, CBP/TRS-222/111, EPA/903/R-99/015.
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Table of Contents:
- Introduction;
- Summit Summary-Toward a Sustainable Chesapeake;
- Summit Workshops-Track I-Starting Out Right;
- Track II-Characterizing Your Community;
- Track III-Planning for the Future;
- Track IV-Implementing Sustainable Community Initiatives;
- Training Sessions;
- Conclusion-Moving Toward a Sustainable Chesapeake;
- and Appendix I-Resource Guide.

Keywords: *Chesapeake Bay, *Economic growth, *Environmental protection, Communities, Design, Community planning, Community development, Environmental impact assessments, Watersheds, Conflict resolution, Quality of life, *Sustainable development, Pollution pevention, Chesapeake Bay Program, Middle Atlantic Region(United States).

PB99-166456REB PC A12/MF A03
National Risk Management Research Lab., Ada, OK. Subsurface Protection and Remediation Div.
Site Characterization of Area 6, Dover Air Force Base, in Support of Natural Attenuation and Enhanced Anaerobic Bioremediation Projects. Remediation Technologies Development Forum, Bioremediation of Chlorinated Solvents Work Group.
Du Pont de Nemours (E.I.) and Co., Wilmington, DE. DuPont Environmental Remediation Services.
N. R. Grosso, L. P. Leitzinger, and C. Bartlett. 11 Mar 1997, 230p, EPA/600/R-99/044.
Portions of this document are not fully legible. Sponsored by National Risk Management Research Lab., Ada, OK. Subsurface Protection and Remediation Div.
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A field program for site characterization of targeted study areas at the Dover Air Force Base was conducted between January 16, 1995, and March 9, 1995. The stated objectives of the investigation, 'to characterize the stratigraphy, depth to groundwater, groundwater flow directions, and the vertical and horizontal distribution of contaminants within the accelerated anaerobic biodegradation test plot and the intrinsic bioremediation test plot,' were accomplished in a phased approach. The site stratigraphy was characterized based on the interpretation and correlation of recent cone penetrometer technology (CPT) logs with existing well logs. Depth to water and aerial groundwater flow directions across the study area were determined from contoured water-level measurements in new piezometers and existing monitor wells. The extent of contamination, both vertical and horizontal, was determined based on 'StrataProbe' groundwater sampling and laboratory analysis for selected target constituents. This report summarizes the work conducted, describes the details of the effort, and reports the conclusions. The activity portion of this report is divided into sections corresponding to the three phases of the fieldwork described in the work plan: CPT logging, soil and groundwater sampling, and piezometer installation.

Keywords: *Anaerobic conditions, *Water pollution sampling, *Soil sampling, Ground water, Water levels, Base flow, Groundwater movement, Site characterization, Depth, Monitoring wells, Water pollutants, Biodegradation, Environmental pollutants, Spatial distribution, Well logging, Piezometry, *Dover Air Force Base, *Natural attenuation, *Bioremediation, Dover(Delaware), Kent County(Delaware), Cone penetrometers.

PB99-166498REB PC A07/MF A02
Chesapeake Bay Area Public Access Technical Assistance Report. Second Edition.
Environmental Protection Agency, Annapolis, MD. Chesapeake Bay Program.
Jul 1999, 118p.
See also PB89-206965.
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In 1987, the governors of the Bay states, the mayor of Washington D.C., the administrator of the U.S. environmental Protection Agency, and the Chair of the Chesapeake Bay Commission entered into the Chesapeake Bay Agreement to restore and protect the Bay and it tributaries. One of the major initiatives of the Agreement involves the improvement of public access to the waters of the Bay. It is anticipated that this commitment will increase resources for the improvement of water-dependent and water-enhanced recreational opportunities in the coming years. Increased public awareness through expanded Bay access opportunities is considered essential in gaining public support and commitment for the preservation of the Chesapeake Bay. The Agreement outlines four general objectives to support the initiatives: Improve and maintain access to the Bay, including public beaches, parks, and forested lands; Improve opportunities for recreational and commercial fishing; Secure shoreline acreage to maintain open space and provide opportunities for passive recreation; Secure necessary acreage to protect unique habitat and environmentally sensitive areas.

Keywords: *Chesapeake Bay, *Public access, *Outdoor recreation, *Natural resources management, Public lands, Nature reserves, Boating, Design criteria, Beaches, Ramps, Swimming, Fishing, Environmental impact assessments, Virginia, Maryland, Pennsylvania, Natural resources conservation, Visitors, Sites, District of Columbia.

PB99-167199REB PC A12/MF A03
Illinois Solid Waste Management Legislation.
Illinois State Environmental Protection Agency, Springfield. Bureau of Land.
Jul 1999, 230p, IEPA/BOL-99/012.
See also PB95-212510/HDM.
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Tables of Contents:
- Degradable Plastic Act;
- Energy Assistance Act of 1989;
- Hazardous and Solid Waste Recycling and Treatment Act;
- Household Hazardous Waste Collection Program Act;
- Illinois Emergency Planning and Community Right to Know Act;
- Illinois Environmental Facilities Financing Act;
- Illinois Procurement Code;
- Illinois Solid Waste Management Act;
- Intergovernmental Cooperation Act;
- Junkyard Act;
- Litter Control Act;
- Local Solid Waste Disposal Act;
- Metro Easte Solid Waste Disposal and Energy Producing Service Act;
- Recycled Newsprint Use Act;
- Responsible Property Transfer Act of 1988;
- Solid Waste Disposal District Act;
- Solid Waste Planning and Recycling Act;
- Solid Waste Site Operator Certification Law;
- Township Refuse Collection and Disposal Act;
- Toxic Pollution Prevention Act;
- Used Motor Oil Recycling Act;
- Waste Oil Recovery Act;
- and Water Supply, Drainage and Flood Control Act.

Keywords: *Illinois, *Solid waste management, *Legislation, *State law, Government policies, Law(Jurisprudence), Pollution regulations, Requirements, Pollution laws, Pollution standards, Law enforcement, Solid waste disposal, Solid waste abatement, Waste processing, Waste treatment, Waste recycling, Solid waste collection systems, Hazardous materials, Water quality management, Electric utilities, State government.

PB99-167306REB PC A16/MF A03
Environmental Protection Agency, Washington, DC.
Arsenic in Drinking Water. Final rept.
National Research Council, Washington, DC.
c15 Jun 1999, 336p, ISBN-0-309-06333-7.
Library of Congress catalog card no. 99-62141. See also PB99-107591. Sponsored by Environmental Protection Agency, Washington, DC.
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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.

In 1966, EPA's Office of Water requested that the National Research Council (NRC) independently review the arsenic toxicity data base and evaluate the scientific validity of EPA's 1988 risk assessment for arsenic in drinking water. The subcommittee was charged with the following tasks: (1) review EPA's characterization of human health risks from ingestion of arsenic compounds found in food and drinking water and the uncertainties associated with that characterization; (2) review available data on cancer and noncancer health effects from exposure to arsenic compounds in drinking water and the implications of these effects on the assessment of the human health risks from arsenic exposure; (3) review data on the toxicokinetics, metabolism, and mechanism or mode of action of arsenic and ascertain how these data could assist in assessing human health risks from drinking-water exposures; and (4) identify research priorities to fill data gaps.

Keywords: *Drinking water, *Arsenic, *Health effects, *Risk assessment, Potable water, Water supply, Food, Urinalysis, Blood chemical analysis, Hair, Arsenic compounds, Nails, Public health, Toxicity, Biological availability, Dose-response relationship, Biological markers, Sensitivity, Health hazards, Toxicokinetics, Maximum contaminant level, National Primary Drinking Water Regulations.

PB99-167330REB PC A05/MF A01
Environmental Protection Agency, Seattle, WA. Office of Ecosystems and Communities.
Biological Aspects of Hybrid Poplar Cultivation on Floodplains in Western North America: A Review.
Braatne (Jeffery H.), Seattle, WA.
J. H. Braatne. Mar 1999, 52p, EPA/910/R-99/002.
Portions of this document are not fully legible. Sponsored by Environmental Protection Agency, Seattle, WA. Office of Ecosystems and Communities.
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Fast growing hybrid poplars---the product of selective breeding of native cottonwoods---are being widely planted by agriculture to supplement the diminishing supply of natural hardwoods. As effective biofilters, these trees are also being increasingly used to treat agricultural runoff and municipal wastewaters. Given such uses, the cultivation of hybrid poplars in floodplain habitats is expected to increase significantly. This report discusses the major biological distinctions between hybrid poplars and native cottonwoods, and explores some of the potential management issues associated with their cultivation near riparian corridors. In general, despite the widespread planting of non-native poplars throughout the West, this review finds that their influence on the genetics and ecology of native cottonwoods has been limited. Likewise, their overall impact on groundwater and streamflows is found to be comparable to other tree species and agricultural crops. Recommendations for further reducing any impacts and for improving the habitat values of such tree crop are provided, along with recommendations for future research. The report also emphasizes the critical role of native cottonwoods in the structure and function of riparian corridors, and urges the conservation and study of remnant stands of these important trees.

Keywords: *Cottonwoods, *Poplars, *Flood plains, *Planting management, *Riparian land, Hardwood, Forest ecology, Riparian plants, Waste water treatment, Agricultural runoff, Plant genetics, Groundwater movement, Stream flow, Forest management, Habitats, Conservation, *Western Region(North America), Native species.

PB99-167397REB PC A99/MF A06
Destin Dome 56 Unit Development and Production Plan and Right-of-Way Pipeline Application. Draft Environmental Impact Statement. Volume 1: Sections 1-10.
Minerals Management Service, New Orleans, LA. Gulf of Mexico OCS Region.
20 Aug 1999, 748p, OCS/EIS/EA/MMS-99-0040.
See also PB98-159700 and PB99-167405 (Volume 2).
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The MMS prepared this environmental impact statement (EIS) on Chevron's plan to drill 20 new wells within the Destin Dome (DD) 56 Unit, to produce up to 450 trillion cubic feet of natural gas per day, and to transport the gas through pipelines to processing plants in Alabama. Volume 1---Section 1 states the reasons for the proposed development of the DD 56 Unit and describes the plan and pipeline in detail. Section II describes the proposal, the alternatives, and the mitigation measures. Section III describes the physical, biological, and social resources within the DD 56 Unit and in areas from Pascadoula, Mississippi, to Cape San Blas, Florida, that might be affected if Chevron is allowed to go ahead with the plan. This descriptive background information gives the status of these reasons as they are now. Section IV analyzes the environmental effects that could be anticipated from Chevron's plan, and a separate analysis of possible and expected effects is done for the resources described in Section III. Section V discusses how the Draft EIS was developed and distributed. Section VI lists the references cited in the main text. Section VII lists the people who wrote and worked on the EIS. Section VIII is a glossary of terms used. Section IX (Appendices) contains technical information, including descriptions of the geology and physical oceanography of the DD 56 Unit.

Keywords: *Environmental impact statements-Draft, *Natural gas wells, *Gas pipelines, *Offshore drilling, Energy source development, Mexico Gulf, Alabama, Socioeconomic conditions, Environmental impacts, Coastal areas, Coastal zone management, Social impact, Economic impact, Physical oceanography, Geologic structures, *Destin Dome, Outer continental shelf, Gulf Coast(Florida), Mineral leases.

PB99-167405REB PC A11/MF A03
Destin Dome 56 Unit Development and Production Plan and Right-of-Way Pipeline Application. Draft Environmental Impact Statement. Volume 2: Figures and Tables.
Minerals Management Service, New Orleans, LA. Gulf of Mexico OCS Region.
20 Aug 1999, 210p, OCS/EIS/EA/MMS-99-0040.
See also PB99-167397 (Volume 1).
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The MMS prepared this environmental impact statement (EIS) on Chevron's plan to drill 20 new wells within the Destin Dome (DD) 56 Unit, to produce up to 450 trillion cubic feet of natural gas per day, and to transport the gas through pipelines to processing plants in Alabama. The 11 blocks that make up the DD 56 Unit were leased from the Federal Government by Chevron during the 1980's. Chevron has already drilled three exploratory wells within the Unit, which showed that there is a great quantity of natural gas about 24,000 feet below the seafloor. The closes point of the Unit to the coastline of the Florida Panhandle is about 25 miles due south of Pensacola, Florida. Volume II contains the figures and tables referenced in Volume I.

Keywords: *Environmental impact statements-Draft, *Natural gas wells, *Gas pipelines, *Offshore drilling, Energy source development, Mexico Gulf, Alabama, Socioeconomic conditions, Environmental impacts, Coastal areas, Coastal zone management, Social impact, Economic impact, Physical oceanography, Geologic structures, *Destin Dome, Outer continental shelf, Gulf Coast(Florida), Mineral leases.

PB99-168254REB PC E99/MF E99
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Primary Lead Smelter, Doe Run, Herculaneum, Missouri (Kit).
Pacific Environmental Services, Inc., Research Triangle Park, NC.
Aug 1999, 1398p-in 3v.
Kit includes PB99-168262, PB99-168270, and PB99-168288. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
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No abstract available.

PB99-168262REB PC A09/MF A02
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Primary Lead Smelter, Doe Run, Herculaneum, Missouri. Volume 1. Text and Appendix A. Final rept.
Pacific Environmental Services, Inc., Research Triangle Park, NC.
F. J. Phoenix. Aug 1999, 168p, EPA/454/R-99/032A.
Contract EPA-68-D-70069
See also PB99-168270 (Volume 2). Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. Also available in kit of 3 components PC E99/MF E99, PB99-168254. 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 United States Environmental Protection Agency's (EPA) Emission Standards Division (ESD) is investigating the primary lead smelting source category to identify and quantify organic hazardous air pollutants (HAPs) emitted from blast furnaces. The primary objective was to obtain data on the emissions of volatile and semi-volatile organic HAPs, aldehydes, and ketones from primary lead smelter blast furnaces. A secondary objective was to obtain data on the emissions of carbon monoxide. The data will be used by ESD to determine whether organic HAPs are emitted at levels that would justify regulation under the Maximum Achievable Control Technology (MACT) program. The Doe Run Company, which operates a primary lead smelter in Herculaneum, Missouri was selected by the ESD as the host facility for this project. This volume consists of the report text and Appendix A.

Keywords: *Smelters, *Air pollution sampling, *Emissions, *Measurement, *Data quality, Blast furnaces, Baghouses, Smelting, Flue gases, Stack gases, Lead(Metal), Carbon monoxide, Aldehydes, Ketones, Analytical methods, Chemical analysis, Testing, Quality control, Quality assurance, Herculaneum(Missouri), Semivolatile organic compounds, Volatile organic compounds, Hazardous air pollutants, Sampling trains, MACT(Maximum Achievable Control Technology), NESHAP(National Emission Standards for Hazardous Air Pollutants).

PB99-168270REB PC A99/MF A06
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Primary Lead Smelter, Doe Run, Herculaneum, Missouri. Volume 2. Appendix B.1. Final rept.
Pacific Environmental Services, Inc., Research Triangle Park, NC.
F. J. Phoenix. Aug 1999, 722p, EPA/454/R-99/032B.
Contract EPA-68-D-70069
See also PB99-168262 (Volume 1) and PB99-168288 (Volume 3). Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Also available in kit of 3 components PC E99/MF E99, PB99-168254. 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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mary lead smelter in Herculaneum, Missouri was selected by the ESD as the host facility for this project. This volume consists of Appendix B.1.

Keywords: *Smelters, *Air pollution sampling, *Emissions, *Measurement, *Data quality, Blast furnaces, Baghouses, Smelting, Flue gases, Lead(Metal), Carbon monoxide, Aldehydes, Ketones, Analytical methods, Chemical analysis, Testing, Quality control, Quality assurance, Herculaneum(Missouri), Semivolatile organic compounds, Volatile organic compounds, Hazardous air pollutants, Sampling trains, MACT(Maximum Achievable Control Technology), NESHAP(National Emission Standards for Hazardous Air Pollutants).

PB99-168288REB PC A23/MF A04
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Primary Lead Smelter, Doe Run, Herculaneum, Missouri. Volume 3. Appendix B.2 through Appendix F. Final rept.
Pacific Environmental Services, Inc., Research Triangle Park, NC.
Aug 1999, 508p, EPA/454/R-99/032C.
Contract EPA-68-D-70069
See also PB99-168270 (Volume 2). Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. Also available in a kit of 3 components PC E99/MF E99, PB99-168254. 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: *Smelters, *Air poilution sampling, *Emissions, *Measurement, *Data quality, Blast furnaces, Baghouses, Smelting, Flue gases, Stack gases, Lead(Metal), Carbon monoxide, Aldehydes, Ketones, Analytical methods, Chemical analysis, Testing, Quality control, Quality assurance, Herculaneum(Missouri), Semivolatile organic compounds, Volatile organic compounds, Hazardous air pollutants, Sampling trains, MACT(Maximum Achievable Control Technology), NESHAP(National Emission Standards for Hazardous Air Polutants).

PB99-168817REB PC A10/MF A03
Environmental Protection Agency, Research Triangle Park, NC. Emissions, Monitoring, and Analysis Div.
Modeling Fugitive Dust Impacts from Surface Coal Mining Operations: Phase 3. Evaluating Model Performance. Final rept.
Pacific Environmental Services, Inc., Research Triangle Park, NC.
Dec 1995, 196p, EPA/454/R-96/002.
Contract EPA-68D30001
Supersedes PB96-139738. See also PB95-146510. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Emissions, Monitoring, and Analysis Div.
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This report presents the results of a statistical evaluation of several models for predicting the ambient impact of fugitive dust emissions from surface coal mines. The evaluation includes recent improvement s to the Industrial Sources Complex (ISC) model applicable to fugitive surface coal mine activities. The results show improved performance by the new model and emission factors relative to the original model and AP-42 emission factors.

Keywords: *Coal dust, *Surface mining, *Emission factors, *Air pollution sources, *Diffusional modeling, *Mathematical models, Coal mining, Particulates, Air pollution dispersion, Atmospheric diffusion, Environmental transport, Meteorological data, Clean Air Acts, Statistical analysis, Performance evaluation, Tables(Data), *Fugitive dust, ISC model, ISC(Industrial Source Complex).

PB99-168825REB PC A08/MF A02
Drinking Water Activities for Students, Teachers, and Parents.
Environmental Protection Agency, Washington, DC. Office of Water.
Mar 1999, 142p, EPA/810/B-99/002.
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Partial Contents:
- How People Get Their Water (Classroom Activity);
- The Water Cycle at Work (Student Activity);
- Ground Water Use for the United States, 1990;
- Building A Model Aquifer (Classroom Activity);
- Blue Thumb Crossword Puzzle (Student Activity);
- Blue Thumb Word Scramble (Spanish Version) (Student Activity);
- Tracking Pollution:
- A Hazardous Whodunnit (Teacher Guide);
- What Everyone Should Do For Drinking Water: The Water Facts of Life.

Keywords: *Drinking water, *Potable water, Students, Instructional materials, Water pollution, Conservation, Source water protection, Aquifers, Water treatment, Blue thumb.

PB99-168866REB PC A14/MF A03
Asphalt Roofing Industry Fourier Transform Infrared Spectroscopy Modified Bitumen.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Jul 1999, 296p, EPA/454/R-99/027.
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A 'Request for Emissions Testing at Four Asphalt Roofing and Processing Facilities' was submitted by the U.S. EPA Emission Standards Division (ESD), Minerals and Inorganic Chemicals Group (MICG) to the Emission Measurement Center (EMC). The Emission Measurement Center directed Midwest Research Institute (MRI) to conduct emissions testing at asphalt roofing plants. This report presents results of MRI's FTIR and Method 25A testing conducted at U.S. Intec in Port Arthur, Texas. The field measurements were performed in September 1997 under several test conditions for both controlled and uncontrolled emissions.

Keywords: *Asphalts, *Roofing, *Manufacturing, *Industrial plants, *Emissions, *Air pollution monitoring, Bitumens, Hydrocarbons, Stack gases, Inlets, Outlets, Industrial production, Air poilution sampling, Fourier transform infrared spectroscopy, Chemical analysis, Analytical methods, *Fugitive emissions, *Hazardous air pollutants, Port Arthur(Texas), NESHAP(National Emission Standards for Hazardous Air Pollutants).

PB99-168874REB PC A06/MF A02
Guideline for Developing an Ozone Forecasting Program.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards. T. S. Dye, C. P. MacDonald, and C. B. Anderson. Jul 1999, 98p.
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 provide guidance to help air quality agencies develop, operate, and evaluate ozone forecasting programs. This guidance document provides: Background information about ozone and the weather's effect on ozone; A list of how ozone forecasts are currently used; A summary and evaluation of methods currently used to forecast ozone; and Steps you can follow to develop and operate an ozone forecasting program. The intended audience of this document is project managers, meteorologists, air quality analysts, and data analysts. Project managers can learn about the level of effort needed to set up and operate a forecasting program. Meteorologists can learn about the various methods to predict ozone and the steps needed to create a program.

Keywords: *Ozone, *Forecasting, *Air pollution monitoring, Photochemical reactions, Nitrogen oxides, Photochemistry, Environmental transport, Ecological concentration, Statistical methods, National Ambient Air Quality Standards, Mathematical models, Verification, Weather conditions, Volatile organic compounds.

PB99-168908REB PC A99/MF A06
RACT/BACT/LAER Clearinghouse Clean Air Technology Center Annual Report for 1999: A Compilation of Control Technology Determinations. Ninth Supplement to 1990 Edition.
Environmental Protection Agency, Research Triangle Park, NC. Information Transfer and Program Integration Div.
Jun 1999, 578p, EPA/456/R-99/004.
See also PB98-173495 (Eight Supplement).
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The basic purposes of the RBLC are to: (1) provide state and local air pollution control agencies, industry, and the public with current information on case-by-case control technology determinations that are made nationwide, and (2) promote communication, cooperation, and sharing of control technology information among the permitting agencies. The information presented in this compilation was abstracted from preconstruction permits and submitted by the state and local air pollution control agencies and EPA regional offices. The Clearinghouse is intended as a reference for state and local agencies in making RACT/BACT/LAER decisions.

Keywords: *Air pollution control, Air pollution control equipment, Air pollution sources, Permits, Sectoral analysis, Performance standards, Air pollution standards, Standards compliance, Clean Air Act, Pollution regulations, Industrial wastes, Airborne wastes, Indexes(Documentation), Tables(Data), *BACT(Best Achievable Control Technology), *Best Achievable Control Technology, *RACT(Reasonably Achievable Control Technology), *Reasonably Achievable Control Technology, *LAER(Lowest Achievable Emission Rates), *Lowest Achievable Emission Rates, New Source Performance Standards, RBLC(RACT/BACT/LAER Clearinghouse).

PB99-168940REB PC A06/MF A01
Catalog of Publications, Office of Science and Technology (Office of Water, Environmental Protection Agency) 1999 Edition.
Environmental Protection Agency, Washington, DC. Office of Water.
Aug 1999, 88p, EPA/820/B-99/001.
Supersedes PB99-101230.
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Table of Contents:
- Using the Catalog;
- Introduction to the Office of Science and Technology (OST);
- Industrial Effluent Limitations and Guidelines (Listed alphabetically by Point Source);
- Water Quality Standards;
- Ambient Water Quality Criteria;
- Biological Quality Criteria;
- Nutrient Criteria;
- Equilibrium Partitioning Sediment Guidelines (Sediment Quality Criteria);
- Drinking Water Criteria;

Drinking Water Health Advisories;
Water Quality Modeling and Total Maximum Daily Loads Guidance;
Analytical Laboratory Methods;
Contaminated Sediments;
Fish Tissue Quality;
Municipal Sewage Sludge;
Great Lakes Guidance;
Beach Water Quality;
Pollution Prevention-IP3 Reports;
Other;
Videotapes;
Datafiles and Software;
and Index.

Keywords: *Water pollution, *Water resources, *Catalogs(Publications), *Bibliographies, Drinking water, Potable water, Water quality standards, Sewage sludge, Waste water, Industrial wastes, Municipal wastes, Water pollution sources, Analytical methods, Nutrients, Beaches, Great Lakes, Water pollution control, Clean Water Act, Safe Drinking Water Act, Sediments, Fish, Animal tissues, Economic analysis, US EPA, *Office of Water, *Office of Science and Technology, Water quality criteria, Pollution prevention.

PB99-169120REB PC A02/MF A01
Building a Green Future: A Case Study of EPA Region 10's Building Renovations.
Environmental Protection Agency, Seattle, WA. Region X.
J. Leckrone, and J. Allamand. Jul 1999, 10p, EPA/910/R-99/012.
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EPA Region 10 has published an 8-page case study of the 'green' remodeling of its executive suite and adjacent offices in April of 1999. The renovation is a model construction project that demonstrates the Agency's commitment to promoting sustainability and green construction. Region 10's project emphasizes three related elements: green design and construction, new concepts about space and work, and ultra flexible space that allow for future growth and changes with minimal costs and waste. The case study discusses the project's planning process, resource-efficient materials, recycling efforts, design principles, costs, product selection, partners and lessons learned.

Keywords: *US EPA, *Office buildings, Building materials, Design, Project planning, Construction, Renovation, Ceilings, Walls, Carpeting, Upholstery, Furniture, Lighting systems, Waste management, Waste recycling, Costs, Energy efficiency, Case studies.

PB99-169146REB PC A07/MF A02
Alaska Placer Mining Metals Study, Year Two.
Environmental Protection Agency, Seattle, WA. Region X.
J. Goulet, D. Frank, K. Ryding, and L. Edmond. Apr 1999, 120p, EPA/910/R-99/004.
See also PB98-145998.
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EPA sampled four placer mines in Alaska during the summer of 1998. This was the second phase of a study of the distribution of metals in surface water at placer mines in surface water upstream of the mine site, downstream of the mine discharge, and in the effluent. The second phase examines temporal variations from eight rounds of measurements collected during 1998 from four placer mines located in three mining districts. During the second phase in 1998, EPA obtained field measurements of temperature, pH, electrical conductivity, dissolved oxygen, turbidity, and settleable solids. In addition, EPA analyzed samples for total suspended solids, total recoverable metals, dissolved metals, and hardness. The metals analyses included aluminium, antimony, arsenic, cadmium, calcium, chromium, copper, lead, magnesium, mercury, nickel, selenium, silver, and zinc. The 1998 data show typically large variations in total recoverable and dissolved metals concentrations through the course4 of the mining season. Consistent with 1997 results, turbidity was an effective indicator for some, but not all, total recoverable metals found in surface waters. In addition to turbidity, total suspended solids measurements showed similar variations with total recoverable metal content.

Keywords: *Alaska, *Placer mining, *Environmental effects, *Water quality, Mines, Metalliferous mineral deposits, Ore deposits, Metals, Placers, Mine wastes, Surface waters, Water sampling, Water chemistry, Turbidity, Dissolved solids, Suspended solids, Water temperature, Hardness(Water), Electric conductivity, PH factor, Ecological concentration.

PB99-169237REB PC A04/MF A01
Guideline for Reporting of Daily Air Quality: Air Quality Index (AQI).
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
T. Fitz-Simons. Jul 1999, 34p, EPA/454/R-99/010.
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This guidance is designed to aid local agencies in reporting the air quality using the AQI as required in Part 58.50 of 40 CFR and according to Part 58 of 40 CFR, Appendix G.

Keywords: *Reporting requirements, *Guidelines, Air pollution monitoring, Air pollutants, Ozone, Air pollution effects(Humans), Health effects, Health hazards, Exposure, Public health, Position(Location), Color, Pollution regulation, Administrative procedures, *Air Quality Index.

PB99-169245REB PC A06/MF A01
Environmental Protection Agency, Research Triangle Park, NC. Emissions Measurement Center.
Lime Kiln Source Characterization. Lime Manufacturing Industry Fourier Transform Infrared Spectroscopy. Final rept.
Chemical Lime Co., Marble Falls, TX.
M. L. Toney. Jul 1999, 76p, EPA/454/R-99/030.
Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Emissions Measurement Center.
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The purpose of this testing program is to obtain uncontrolled and controlled hydrogen chloride (HCl) and speciated hydrocarbon Hazardous Air Pollutants (HAPs) emissions data from lime production plants to support a national emission standard for hazardous air pollutants (NESHAP). This report presents data from the Fourier Transform Infrared Spectroscopy (FTIR) measurements. FTIR source testing was conducted for the following purposes: Quantify HCl emission levels; and Gather screening (i.e., qualitative) data on other HAP emissions.

Keywords: *Mineral industry, *Lime, *Air pollution sampling, *Kilns, Emissions, Hydrogen chloride, Hydrocarbons, Industrial plants, Baghouses, Fourier transform infrared spectroscopy, Air pollution monitoring, Analytical methods, Quality assurance, Quality control, Marble Falls(Texas), Hazardous air pollutants, NESHAP(National Emission Standards for Hazardous Air Pollutants), National Emission Standards for Hazardous Air Pollutants.

PB99-169898REB PC A12/MF A03
Environmental Protection Agency, Athens, GA. National Exposure Research Lab.
Three Dimensional Hydrodynamic Model for Stratified Flows in Lakes and Estuaries (HYDRO3D): Theory, User Guidance, and Applications for Superfund and Ecological Risk Assessments. Research rept.
Florida Univ., Gainesville.
Y. P. Sheng, M. Zakikhani, S. C. McCutcheon, D. Eliason, D. S. Henn, S. F. Parker, E. Hayter, P. Kohl, E. Z. Hosseinipour, and P. F. Wang. Jun 1999, 234p, EPA/600/R-99/049.
Grant EPA-R-814345-01-0
See also AD-A136 857. Prepared in cooperation with AScI Corp., Athens, GA., Aeronautical Research Associates of Princeton, Inc., NJ. and Clemson Univ., SC. Sponsored by Environmental Protection Agency, Athens, GA. National Exposure Research Lab.
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The HYDRO3D program has been documented to aid in the simulation of lakes, harbors, coastal areas, and estuaries. HYDRO3D is a dynamic modeling system that can be used to simulate currents in water bodies as they respond to tides, winds, density gradients, river flows, and basin geometry and bathymetry. The code is a three-dimensional, time-dependent, o-stretched coordinate, free surface model that can be run in fully three-dimensional (3-D) mode, tow-dimensional vertically-averaged (x-y), and two-dimensional laterally-averaged x-z mode. The applications provided demonstrated that the model is capable of realistic simulation of flow and salinity transport in complex and dynamic water bodies. These applications include simulations of tidal circulation and salinity transport in Suisun Bay, California and Charlotte Harbor, Florida and wind-forced circulation in Green Bay, Lake Michigan. Tidal circulation in Prince William Sound, Alaska was investigated to determine the feasibility of applying the model under emergency conditions. Finally, the calibration of the model for the Mississippi Sound is illustrated.

Keywords: *Hydrodynamics, *Three dimensional models, *Stratified flow, *Lakes, *Estuaries, River flow, Tides, Water circulation, Harbors, Coastal areas, Coastal waters, Salinity, Turbulence, Density stratification, Geometry, Bathymetry, Water quality, Boundary conditions, *HYDRO3D model.

PB99-169906REB PC A02/MF A01
New Pesticide Fact Sheet: Lithium Perfluorooctane Sulfonate (LPOS).
Environmental Protection Agency, Washington, DC. Office of Prevention, Pesticides and Toxic Substances.
Aug 1999, 10p, EPA/730/F-99/009.
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This document contains up-to-date chemical information, including a summary of the Agency's regulatory position and rationale, on a specific pesticide or group of pesticides. A Fact Sheet is issued after registration of a new chemical.

Keywords: *Baits, *Pesticides, *Registration, Insecticides, Sulfonates, Insect control, Toxicity, Risk assessment, Exposure, Humans, Animals, Environmental impacts, Chemical properties, Environmental transport, Pollution regulations, Administrative procedures, Pest control, *Lithium perfluorooctane sulfonate, Use patterns, CAS 29457-72-5.

PB99-169914REB PC A12/MF A03
Small Entity Compliance Guide: National Volatile Organic Compound Emission Standards for Architectural Coatings. Final rept.
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Jul 1999, 248p.
See also PB99-104671.
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The U.S. Environmental Protection Agency (EPA) published the regulation entitled 'National Volatile Organic Compound Emission Standards for Architectural Coatings' (Federal Register, Vol. 63, No. 176, pages 48848-48887) on September 111, 1998 under authority of Section 183(e) of the Clean Air Act. This guide explains how to tell if you are subject to the regulation and what to do if you are required to comply.

Keywords: *Small business, *Air pollution standards, *Standards compliance, *Manufacturing, *Imports, Air pollution control, Paints, Emissions, Standards compli-

ance, Pollution regulations, Auditing, Administrative procedures, Quality assurance, Legal aspects, Requirements, *Volatile organic compounds, *Architectural coatings.

PB99-171282REB PC A03/MF A01
Drinking Water Infrastructure Grants Tribal Set-Aside Program, EPA Region 10. Final Guidelines.
Environmental Protection Agency, Seattle, WA. Region X.
G. Keeler. Aug 1999, 28p, EPA/910/B-99/003.
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This document contains the EPA Region 10 guidance for operating the Safe Drinking Water Act's (SDWA) Tribal Set-Aside (TSA) grant program. The TSA grant program is funded at a national level by 1.5% of the annual appropriations for the State Revolving Loan Fund (SRF) established under the 1996 amendments to the SWDA. The R10 guidelines supplement the National TSA guidelines that were published in October 1998, and establish the specific procedures for the following in EPA Region 10: (1) reallocating the R10 annual funds between the Tribes in Alaska and the Tribes in the Pacific Northwest state of Idaho, Oregon, and Washington; (2) specific water system, project, and infrastructure item eligibility; (3) water system capacity requirements; and (4) annual TSA project identification, ranking, and selection.

Keywords: *American Indians, *Water treatment plants, *Grants, *Federal programs, Safe Drinking Water Act, Potable water, Water systems, Public utilities, Infrastructure, Federal aid, Financial assistance, Funding, Alaskan natives, Washington, Idaho, Oregon, Alaska, Guidelines, *Set-Aside Grant Program, *EPA Region 10.

PB99-171480REB PC A03/MF A01
Paso del Norte Ozone Study VOC Measurements, 1996.
Environmental Protection Agency, Research Triangle Park, NC. National Exposure Research Lab.
R. L. Seila, H. Main, J. L. Arriaga, G. V. Martinez, and A. B. Ramadan. 1999, 20p, EPA/600/A-99/068.
See also DE00007426. Prepared in cooperation with Sonoma Technology, Inc., Petaluma, CA., Instituto Mexicano del Petroleo, Mexico City. and Egyptian Radiation and Environmental Monitoring Network, Cairo (Egypt).
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The results of VOC determinations of ambient air samples collected at surface air quality monitoring sites and near sources of interest on the US and Mexican side of the border during six weeks of the 1996 Paso del Norte Ozone Study are reported. Carbonyl samples were collected on DNPH impregnated cartridges at three surface sites and analyzed by HPLC to quantify 13, C-1 to C-8 species. Whole air samples were collected in electro-polished stainless steel canisters which were returned to laboratory for determination of C-2 to C-10+ hydrocarbons by cryogenic preconcentration capillary gas chromatography with flame ionization detection (gc-fid). Several sources were sampled: rush hour traffic, propane-powered bus exhaust, automobile paint shop emissions, propane fuel, petroleum refinery, and industrial manufacturing site. Spatial and temporal characteristics of VOC species concentrations and compositions are presented. Overall surface TNMOC values ranged from 0.1 to 3.4 ppmC with the highest concentrations recorded in the morning at three vehicle-dominated sites, two in Cuidad Juarez and one in downtown El Paso. Toluene in El Paso samples and propane, which is used as a cooking and transportation fuel in Cuidad Juarez, were the most abundant hydrocarbons.

Keywords: *Air quality monitoring, *Ozone, *Mexico, Air quality, Petroleum industry, Organic compounds, Carbonyls, Emissions, Hydrocarbons, Automotive industry, Laboratories, Chromatographic analysis, Surveys, United States, Atmospheric chemistry, Sampling, Fuel, *Paso el Norte(Mexico), *VOCs(Volatile organic compounds).

PB99-171498REB PC A02/MF A01
Solutions to Indoor Air Problems: Let's First Understand the Source. Rept. for Mar 97-Dec 98.
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
M. C. Osborne, W. G. Tucker, C. A. Cinalli, and P. K. Johnston. 1999, 10p, EPA/600/A-99/065.
Presented at Indoor Air 1999, Edinburgh, Scotland, August 8-13, 1999.
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The paper shows how EPA's Source Ranking Database (SRD) can be used, together with literature studies, to identify industrial product categories worthy of indoor air source characterization research. The SRD is a tool under development by EPA to identify potentially hazardous indoor products. (NOTE: Many different products found in the indoor environment can contribute to indoor air quality problems).

Keywords: *Indoor air pollution, *Stationary sources, *Pollution control, Industrial products, Source Ranking Database(SRD), Environmental Protection Agency.

PB99-171506REB PC A02/MF A01
Comparison of the Sink Characteristics of Three Full-Scale Environmental Chambers.
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
M. A. Mason, Z. Guo, E. Howard, S. Brown, J. S. Zhang, and G. Nong. 1999, 10p, EPA/600/A-99/064.
Presented at 'Indoor Air '99', Edinburgh, Scotland, August 8-13, 1999. Prepared in cooperation with National Research Council of Canada, Ottawa (Ontario). and Commonwealth Scientific and Industrial Research Organization, Highett (Australia).
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The paper gives results of an investigation of the interaction of vapor-phase organic compounds with the interior surfaces of three large dynamic test chambers. A pattern of adsorption and reemission of the test compounds was observed in all three chambers. Quantitative comparison of adsorption between chambers was hampered by limitations of the methodology when adsorption was low. Cycling chamber air through the chamber air conditioning system increased adsorption for most compounds tested. Further testing is needed to determine if adsorption can be predicted from the vapor pressure of the test compound.

Keywords: *Air pollution, *Test chambers, Adsorption, Organic compounds, Volatility, Air conditioning, Stationary sources, Sinks, Indoor air pollution, Volatile organic compounds, *Pollution control.

PB99-171514REB PC A02/MF A01
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
Gas-Phase and Particulate Emissions during Application of a Water-Based Cleaner with a Hand-Pump Sprayer. Rept. for Nov 98-Jan 99.
ARCADIS Geraghty and Miller, Inc., Research Triangle Park, NC.
R. Fortmann, A. Ng, N. Roache, and E. Howard. 1999, 10p, EPA/600/A-99/063.
Contracts EPA-68-D4-005, EPA-68-C-99-201
Presented at 'Indoor Air '99', Edinburgh, Scotland, August 8-13, 1999. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
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The paper gives results of tests in a controlled environment test room to measure concentrtons of 2-butoxyethanol and particles during application of a cleaner to realistic surfaces (counter tops, glass, walls). 2-Butoxyethanol was collected on Tenax and analyzed by gas chromatography. Concentrations of droplets were measued continuously with an aerodynamic particle sizer. During two sets with the cleaner diluted 1 part with 9 parts water, the average concentrations of 2-butoxy-ethanol during the 20-minute cleaning period were 13.5 and 10.3 mg/cu m, about half the NIOSH recommended exposure limit of 24 mg/cu m. After 2 hours, the concentrations dropped below 4 mg/cu m in the room exhausted at a rate of 1 air change per hour.

Keywords: *Particulate emissions, *Gas-phase emissions, *Cleaners, Sprayers, Gases, Particles, Pollution control, Stationary sources.

PB99-171522REB PC A02/MF A01
Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab.
Evaluation of Low-VOC Latex Paints.
ARCADIS Geraghty and Miller, Inc., Research Triangle Park, NC.
J. C. S. Chang, R. C. Fortmann, N. F. Roache, and H. C. Lao. 1999, 10p, EPA/600/A-99/062.
Contract EPA-68-D4-0005
Presented at 'Indoor Air '99', Edinburgh, Scotland, August 8-13, 1999. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab.
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The paper gives results of an evaluation of four commercially available low-VOC (volatile organic compound) latex paints as substitutes for conventional latex paints by assessing both their emission characteristics and their performance as coatings. Bulk analysis indicated that the VOC contents of all four paints are considerably lower than those of conventional latex paints. Low-VOC emissions were confirmed by small chamber emission tests. However, sigificant emissions of several aldehydes, especially formaldehyde, were detected from two of the paints. ASTM methods were used to evaluate the hiding power, scrubbability, washability, dry to touch, and yellowing index. The results indicated that one of the low-VOC paints tested showed performance equivalent or superior to that of a widely used conventional latex paint used as a control. It was concluded that low-VOC latex paint can be a viable option to replace conventional latex paints for prevention of indoor air pollution. However, paints marketed as 'low-VOC' may still have significant emissions of some individual VOCs, and some may not have performance characteristics matching those of conventional latex paints.

Keywords: *Latex, *Paints, *Emissions, *Test methods, *Air pollution sampling, Test chambers, Indoor air pollution, Stationary sources, Emission tests, Volatility, Analytical methods, *Volatile organic compounds.

PB99-171530REB PC A02/MF A01
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
Investigating the Influence of Relative Humidity, Air Velocity and Amplification on the Emission Rates of Fungal Spores. Rept. for May 94-Jun 99.
Research Triangle Inst., Research Triangle Park, NC.
K. K. Foarde, D. W. VanOsdell, M. Y. Menetrez, and J. C. S. Chang. 1999, 10p, EPA/600/A-99/061.
Grant EPA-R-822642-01
Presented at 'Indoor Air '99', Edinburgh, Scotland, August 8-13, 1999. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
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The paper discusses the impact of relative humidity (RH), air velocity, and surface growth on the emission rates of fungal spores from the surface of contaminated material. Although the results show a complex interaction of factors, the authors have determined, for this limited data set, that emission rates are inversely proportional to RH, but directly related to air flow rate and surface loading. (NOTE: Although a significant amount of work has been done to elucidate the conditions under which fungi will grow on the surfaces of ma-

terials, little information is available that quantitatively relates surface concentrations to airborne concentration and, ultimately, exposure.)

Keywords: *Fungal spores, *Emission rates, Relative humidity, Air velocity, Amplification, Surface growth, Indoor air pollution, Ventilation, Ducts, Biocontaminants.

PB99-171548REB PC A03/MF A01
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
Role of HC1 in Adsorption of Elemental Mercury Vapor by Calcium-Based Sorbents. Rept. for Sep 98-May 99.
ARCADIS Geraghty and Miller, Inc., Research Triangle Park, NC.
B. Ghorishi, B. K. Gullett, W. Jozewicz, and W. Kozlowski. 1999, 22p, EPA/600/A-99/060.
Contract EPA-68-C-99-201
Presented at EPRI/DOE/EPA Combined Utility Air Pollutant Control Symposium, Atlanta, GA., August 16-20, 1999. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
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The paper gives results of a study to identify active sites and surface functional groups that may contribute to the absorption of elemental mercury (Hg) by relatively inexpensive calcium (Ca)-based sorbents. The study investigated the formation of chlorine (C1) sites in CA-based sorbents as well as their role and reactivity in the absorption of Hg. HC1-exposed calcium sulfate dihydrate (gypsum) exhibited a superior Hg sorption capability. Crystalline water molecules on the surface of the gypsum were confirmed to contribute indirectly to Hg uptake. These surface molecules may have absorbed HC1 through hydrogen bond formation between an oxygen atom of a crystalline water molecule and a hydrogen atom of an HC1 molecule, Two adjacent, physically absorbed HC1 molecules could then trap an Hg molecule through formation of a mercuric-chloride-like molecule. Significant correlations between C1 and Hg uptake by gypsum were noted.

Keywords: *Air pollution, *Mercury(Metal), *Sorbents, Vapors, Sorption, Calcium, Hydrogen chloride, Gypsum, Stationary sources.

PB99-171555REB PC A03/MF A01
Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab.
Preparation and Evaluation of Modified Lime and Silica-Lime Sorbents for Mercury Vapor Emissions Control.
ARCADIS Geraghty and Miller, Inc., Research Triangle Park, NC.
S. B. Ghorishi, C. F. Singer, and C. B. Sedman. 1999, 24p, EPA/600/A-99/066.
Contract EPA-68-C-99-201
Presented at Mega Symposium, Atlanta, GA., August 16-20, 1999. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. National Risk Management Research Lab.
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The paper discusses current efforts to improve the uptake of mercury species by increasing active sites and adding oxiditive species to the sorbent. (NOTE: Previous work showed that mercury chloride vapor is readily absorbed by calcium-based sorbents as an acid gas in environments typical of coal-fired boiler flue gas, white elemental mercury vapor is absorbed by calcium-based sorbents only when sulfur oxides are also present.) Preparation of modified lime and silica-lime sorbents and their behavior toward mercury species are compared to those of commercially available lime on a fixed-bed bench reactor. The implications of findings toward development of mutipollutant control technologies and planned field toward development of multipollutant control technologies and planned field pilot evaluations of more multipollutant control concepts are discussed.

Keywords: *Emissions control, *Mercury vapor, *Sorbents, Combustion, Boilers, Modified lime, Silica-lime, Preparation, Evaluation, Uptake, Pollution control.

PB99-171563REB PC A03/MF A01
Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
Status of SO2 Scrubbing Technologies.
ARCADIS Geraghty and Miller, Inc., Research Triangle Park, NC.
W. Jozewicz, C. Singer, R. K. Srivastava, and P. E. Tsirigotis. 1999, 24p, EPA/600/A-99/059.
Contract EPA-68-C-99-201
Presented at Mega Symposium, Atlanta, GA., August 16-20, 1999. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Air Pollution Prevention and Control Div.
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The paper presents the extent of current sulfur dioxide (SO2) scrubber applications on electricity generating units in the U.S. and abroad. The technical performance of recent SO2 scrubber installations is discussed. Recently reported technical innovations to SO2 scrubbing technologies are also reviewed. Data on mercury removal achieved with scrubbers are presented and discussed. Current advances in scrubbing technologies to improve mercury capture are also presented.

Keywords: *Scrubbers, *Acid rain, *Pollution control equipment, Electric power plants, Mercury(Metal), Sulfur dioxide, Particles, *Foreign technology.

PB99-171597REB PC A03/MF A01
Analysis of Carbonaceous Aerosols Using the Thermal Optical Transmittance and Thermal Optical Reflectance Methods.
Environmental Protection Agency, Research Triangle Park, NC. National Exposure Research Lab.
G. A. Norris, M. E. Birch, M. P. Tolocka, J. B. Homolya, C. W. Lewis, and P. A. Solomon. 1999, 16p, EPA/600/R-99/059.
Prepared in cooperation with National Inst. for Occupational Safety and Health, Cincinnati, OH.
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Carbonaceous particulate typically represents a large fraction of PN25 (20-40%). Two primary techniques presently used for the analysis of particulate carbon are Thermal Optical Transmission (TOT-NIOSH Method 5040) and Thermal Optical Reflectance (TOR). These two methods both quantify carbon by heating filters and volatilizing the carbon that is oxidized in a granular bed of MnO2 reduced to CH4 in a Ni methanator, and quantified as CH4 with a flame ionization detector. However, the methods use different techniques to correct for the formation of pyrolysis products and the temperature programs for defining organic and elemental carbon. The TOT and TOR measurement techniques are being compared using samples from the Chemical Speciation Monitor Evaluation Field Study. All of the samples will be measured with TOR and a subset of samples representing a range of mass concentrations will be measured with TOT. This comparison will provide insight into the effect of the measurement technique parameters on organic and elemental carbon concentrations.

Keywords: *Carbonaceous materials, *Aerosols, Methods, Particulates, Quantitative analysis, Heating filters, Carbon volatization, *Thermal optical transmittance, *Thermal optical reflectance.

PB99-171605REB PC A10/MF A02
National Risk Management Research Lab., Ada, OK.
Laser Fluorescence EEM Probe for Cone Penetrometer Pollution Analysis. Research rept.
Tufts Univ., Medford, MA. Dept. of Chemistry.
J. E. Kenny. Jun 1999, 186p, EPA/600/R-99/041.
Sponsored by National Risk Management Research Lab., Ada, OK.

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A fiber optic LIF (Laser induced fluorescence) EEM (Excitation emission matrix) for instrument for CPT deployment has been successfully developed and field tested. The system employs a Nd:YAG laser and Raman shifter as a rugged field portable excitation source. This excitation source simultaneously produces > 20 beams of differing wavelength in the UV that can be selectively chose for launch into fiber optics. The system uses a pair of silica-clad-silica optical fibers for each of its channels (eight of which were used in the work described), one to deliver excitation light from the multi-wavelength laser excitation source to the sample, and the other to conduct contaminant fluorescence to a grating spectrograph which utilizes a charge-coupled device detector to record fluorescence intensity as a function of both excitation and emission wavelength. The system has automatic data acquisition (depth and LIF) and some real time data analysis capability. The instrument has undergone several different calibrations including wavelength, analyte concentration, and standard compound fluorescence as a function of incident energy. Many sample types have been characterized in the laboratory including single components on sands of different particle sizes and clay, and fuel mixtures in solution and on sands.

Keywords: *Laser fluorescence, *Cone penetrometer, *Pollution analysis, Site characterization, Instrumentation, Methods, Field sites, EEM probe.

PB99-171845REB PC A06
Environmental Protection Agency, Washington, DC.
Annual Environmental Conditions Report, 1998 (Illinois Environmental Protection Agency).
Illinois State Environmental Protection Agency, Springfield. Environmental Policy.
Jun 1999, 78p.
This document contains tone-on-tone or color graphs, charts and/or pictures which cannot be reproduced legibly in black and white. See also PB97-115661. Sponsored by Environmental Protection Agency, Washington, DC.
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Table of Contents:
Introduction;
Public Review;
Environmental Progress Agenda;
Environmental Quality Conditions;
Air Quality Management;
Airshed Conditions;
Program Performance;
Water Quality Management;
Watershed Conditions;
Program Performance;
Land Quality Management;
Site Conditions;
Program Performance;
Multimedia Management;
and Program Performance.

Keywords: *Environmental quality, *Illinois, Air pollution sources, Land pollution, Water pollution sources, Water supply, Lakes, Ground water, Watersheds, Water pollutants, Solid wastes, Hazardous materials, Regional airsheds, Air pollutants, Pollution monitoring, Site characterization, State programs, Performance evaluation, Goals, Progress, Pollution prevention, Environmental indicators, Environmental conditions.

PB99-172694REB PC A07/MF A02
United States-Mexico Centro de Informacion sobre Contaminacion de Aire, Research Triangle Park, NC.
Plan De Red De Monitores Del Aire Ambiental Para Ciudad Acuna y Piedras Negras, Coahuila, Mexico (Ambient Air Monitoring Plan for Ciudad Acuna and Piedra Negras, Coahuila, Mexico). Final rept.
Midwest Research Inst., Cary, NC.
J. Winberry, L. Henning, and R. Crume. Jan 1998, 102p, EPA/456/R-98/002.
Contract EPA-68-D3-0035
See also PB98-131634 (English version). Prepared in cooperation with Pechan (E.H.) and Associates, Inc.,

Durham, NC. Sponsored by United States-Mexico Centro de Informacion sobre Contaminacion de Aire, Research Triangle Park, NC.
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The Cities of Ciudad Acuna and Piedras Negras and the State of Coahuila in Mexico are interested in improving ambient air quality monitoring capabilities in the two cities through the establishment of a network of ambient air monitors. The purpose of the network is to characterize population exposure to potentially harmful air contaminants, possibly including sulfur dioxide (SO2), nitrogen oxides (NOx), ozone (O3), carbon monoxide (CO), total suspended particulate matter (TSP), particulate matter with aerodynamic diameter less than 100 micrometers PM-10, and lead. This report presents the results of an evaluation of existing air quality monitoring equipment and facilities in Ciudad Acuna and Piedras Negras. Additionally, the report presents recommendations for developing an air quality monitoring network for PM-10, SO2, lead, and ozone in these cities, using a combination of both new and existing equipment. The human resources currently available and ultimately needed to operate and maintain the network are also discussed.

Keywords: *Air pollution monitoring, *Mexico, Air pollution monitors, Meteorological data, Site surveys, Lead(Metal), Metals, Sulfur dioxide, Nitrogen oxides, Ozone, Carbon monoxide, Particulates, *Ciudad Acuna(Mexico), *Piedra Negras(Mexico), Coahuila State(Mexico).

PB99-172728REB PC A99/MF A06
Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
Urban Air Toxics Monitoring Program (UATMP), 1997.
Eastern Research Group, Inc., Lexington, MA.
Jan 1999, 594p, EPA/454/R-99/036.
Contract EPA-68-D3-0095
See also PB92-110022. Sponsored by Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.
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This report presents the results of ambient air monitoring conducted as part of the 1997 Urban Air Toxics Monitoring Program (UATMP)--a program designed to characterize the magnitude and composition of potentially toxic air pollution in, or near, urban locations. The 1997 UATMP included 12 monitoring stations that collected 24-hour air samples, typically on a biweekly basis. These samples were analyzed for concentrations of 47 volatile organic compounds (VOC) and 16 carbonyls. Overall, nearly 28,000 ambient air concentrations were measured during the 1997 UATMP. This summary report uses various graphical, numercial, and statistical analyses to put this vast amount of ambient air monitoring data into perspective. This report is divided into sections that review the specific air quality trends for individual monitoring stations. Each section of this report presents a succinct, yet thorough, overview of the monitoring data collected at a particular site. Each section analyzes and interprets air quality trends for nine compounds (all nitriles and oxygenated compounds) that were not measured during previous UATMPs, including methyl tert-butyl ether--a compound that has received much attention lately due to its use as a fuel additive in may parts of the country. Finally, to assess annual variations in air quality, each section describes how levels of air pollution have changed since the 1994 UATMP. Each section concludes by highlighting the most notable trends for the particular monitoring station.

Keywords: *Air pollution sampling, *Toxic substances, *Urban areas, Carbonyl compounds, Oxygen compounds, Air pollution monitors, Ecological concentration, Nitriles, Data analysis, Statistical analysis, Analytical methods, Annual variations, Tables(Data), *Urban Air Toxics Monitoring Program, Air toxics, Volatile organic compounds, Oxygenates.

PB99-172744REB PC A08/MF A02
Mineralogical Study of Boreholes B98-13 and B98-12, Frontier Hard Chrome Site, Vancouver, Washington. Final rept.
Environmental Protection Agency, Seattle, WA. Region X.
D. Frank. Aug 1999, 136p, EPA/910/R-99/015.
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One factor in assessing metal mobility at the Frontier Hard Chrome industrial site is the degree of chromium reduction and secondary mineralization in a silt unit and underlying sand and gravel aquifer that extends from the site toward the Columbia River. Samples were analyzed by ICP-AES for metals concentration, scanning electron microscopy/electron microprobe for mineralogical texture and microanalysis, powder x-ray diffraction for mineral identification, and optical microscopy for textural observations. Microprobe analysis showed that chromium occurred in metallic particles originating in an uppermost Fill Unit, and in iron oxides, iron-titanium oxides and fine-grained iron aluminun silicates in the both the Silt and Aquifer Units. X-ray diffraction analysis showed that the fine-grained fraction of the Silt and Aquifer Units contained an abundant suite of detrital clay minerals including primarily illite, chlorite, and smectite, and lesser kaolinite. The presence of chlorite and smectite is consistent with the microprobe observation of iron-bearing aluminum silicates in the fine grained fraction of the samples. Chromium concentration in the fine-grained material was elevated to a level consistent with chromium in the bulk material and about 10-20 times nearby background concentrations, suggesting that an important contributor to the bulk chromium content resides in the clay minerals.

Keywords: *Mineralogy, *Boreholes, *Chromium, Chlorite, Clay mineral, Electron microprobe, Geochemistry, Metal mobility, X ray diffraction.

PB99-175416REB PC A05/MF A01
Environmental Protection Agency, Research Triangle Park, NC. National Exposure Research Lab.
Documentation for the Gridded Hourly Atrazine Emissions Data Set for the Lake Michigan Mass Balance Study. A Final Contract Report.
ORTECH Corp., Mississauga (Ontario).
M. T. Scholtz, B. J. Van Heyst, and A. Ivanhoff. Aug 1999, 66p, EPA/600/R-99/067.
Sponsored by Environmental Protection Agency, Research Triangle Park, NC. National Exposure Research Lab.
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In order to develop effective strategies for toxics management, the Great Lakes National Program Office (GLNPO) of the United States Environmental Protection Agency (U.S. EPA), in 1994, launched an ambitious five year program to conduct a mass balance study of selected toxic pollutants in Lake Michigan for the target year of 1995 (U.S. EPA, 1998). Three persistent organic pollutants (POPs) and one heavy metal have been selected for the focus of the Lake Michigan Mass Balance (LMMB) study; polychlorinated biphenyls (PCBs), trans-nonachlor, atrazine and mercury. Atrazine is a broadleaf herbicide typically applied to corn, sorghum, sugarcane, pastures, sweet corn, seed crops and sod (Gianessi and Puffer, 1991). In 1991, applications to corn and sorghum accounted for approximately 95% of the total atrazine useage in the United State (Gianessi and Puffer, 1991). Atrazine is typically applied as a pre-emergent spray and/or a post-emergent spray although it can also be incorporated into the soil prior to planting (USDA, 1995a). Peer reviewed literature suggests that atmospheric sources of atrazine may be an important input of herbicide to the Lake Michigan system (Schottler and Eisenreich, 1997). The National Oceanic and Atmospheric Administration (NOAA) is collaborating with the LMMB study in its estimation of the atmospheric deposition of atrazine to Lake Michigan.

Keywords: *Atrazine, *Toxics management, Herbicides, Lake Michigan, Air pollution Strategies, Emissions, Atmospheric deposition, Mass balance study, Environmental Protection Agency.

PB99-175424REB PC A05/MF A01
Using MM5 Version 2 with Models-3/CMAQ: A User's Guide and Tutorial.
Environmental Protection Agency, Research Triangle Park, NC. National Exposure Research Lab.
T. L. Otte. Jul 1999, 62p, EPA/600/R-99/065.
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Meteorological data are important in many of the processes simulated in the Community Multi-Scale Air Quality (CMAQ) and the Models-3 framework. The first meteorology model that has been selected and evaluated with CMAQ is the Fifth-Generation Pennsylvania State University/National Center for Atmospheric Research (NCAR) Mesoscale Model (MM5). All software in the Penn State/NCAR mesoscale modeling system has been dedicated to the public domain and is presently used for both research and operational purposes at many organizations worldwide. Other meteorological models are being considered for compatibility with CMAQ but are not available at this time. This document is a basic overview of MM5 and its relationship with CMAQ and Models-3. Some general information is provided to help the user get started with aMM5 in preparation for Models-3 and CMAQ, and it is meant to supplement NCARS's official documentation of MM5.

Keywords: *Computer models, *Weather forecasting, User guides, Meteorology models, Software, *MMM5 computer model, *Micrometeorology, Mesoscale and Microscale Meteorology, CMAQ, Models-3.

PB99-175432REB PC A03/MF A01
Residential Indoor Exposures of Children to Pesticides Following Lawn Applications.
Environmental Protection Agency, Research Triangle Park, NC. National Exposure Research Lab.
R. G. Lewis, and M. G. Nishhioka. 1999, 18p, EPA/600/A-99/069.
See also PB93-119899. Prepared in cooperation with Battelle Memorial Inst., Columbus, OH.
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Methods have been developed to estimate children's residential exposures to pesticide residues and applied in a small field study of indoor exposures resulting from the intrusion from the intrusion of lawn-applied herbicide into the home. Sampling methods included size-selective indoor air sampling; wipe sampling of floors, sills, tables; the polyurethane foam (PUF) roller for dislodgeable carpet surface residues; and the HVS3 vacuum sampler for floor dust. Personal exposure samples included hand wipes and morning void urine samples. Pesticide spray drift was found to result in only a relatively minor increase in indoor pesticide levels. post-application air intrusion from closed house ventilation and the opening and closing of doors and windows increased indoor background levels 6-fold, while track-in by high activity children and pets, and wearing shoes indoors, increased indoor levels by 37-fold. Indoor 2,4-D levels were found to increase continually over a one-week period, with the increase in indoor air levels corresponding to the increased floor dust levels, suggesting resuspension of house dust by human activity. Similar estimates of non-dietary exposure are obtained from models based on 100 mg ingestion and surface contact simulated by the PUF roller.

Keywords: *Pesticides, *Children, *Lawns, Exposures, Residential buildings, Indoor air pollution, Sampling, Residues, Floor dust.

PB99-175440REB PC A02/MF A01
Hydrocarbon and MTBE Removal Rates during Natural Attenuation Application.
National Risk Management Research Lab., Ada, OK. Subsurface Protection and Remediation Div.
J. S. Cho, and J. T. Wilson. 1999, 10p, EPA/600/A-99/067.

Prepared in cooperation with Coast Guard, Washington, DC.
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Removal rates of hydrocarbons and methyl tertiary butyl ether (MTBE) from the non-aqueous phase liquid (NAPL) residual source floating over the water table were estimated with site characterization data at the petroleum contamination site in the US Coast Guard (USCG) air-base. Site characterization activities included soil and groundwater sampling, total petroleum hydrocarbon (TPH) and components analysis in soil samples, analysis of hydrocarbons and electron acceptors in groundwater, and hydraulic conductivity. Total quantities of hydrocarbons and MTBE in subsurface were estimated from soil sampling data. Dissolution rates or hydrocarbon components from the residual NAPL source into groundwater were estimated with a vertical diffusion model. Estimation of hydrocarbon and MTBE removal from the residual source in soil matrices was verified with mass balance check. Mass balance check allowed the quantitative evaluation of the fate and transport of contaminants from the sources to the sensitive receptors. The conceptual model and quantification of removal rates provided an estimation of application period of natural attenuation at the site as the plume management strategy.

Keywords: *Water pollution sampling, *Hydrocarbons, *Removal, Petroleum products, Residues, Biodegradation, Water table, Plumes, Environmental transport, Soil sampling, Site characterization, Water pollution control, Quantitative analysis, Hydraulic conductivity, Electron acceptors, *Natural attenuation, *Methyl tertiary butyl ether, Nonaqueous phase liquids, Environmental fate.

PB99-500647REB CD-ROM $50.00
Toxic Release Inventory (TRI) 1987-1996 (Windows Version) (on CD-ROM with Search and Retrieval Software). Data file.
Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics.
Oct 1999, CD-ROM.
Contains search and retrieval software. Requirements: IBM 486 compatible running WINDOWS 3 X, 95, 98, NT with 16 MB RAM, 20 MB free disk space and a CD-drive. Inlcudes user instructions. Supersedes PB96-503214, PB97-502587. See also PB98-150113, PB98-500473, SUB-5423, AVA2034BB00, Y2K - compliant.
The datafile is on two discs. 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 Toxics Release Inventory (TRI), published annually by the U.S. EPA, is a valuable source of information about over 300 toxic chemicals that are being used, manufactured, treated, transported, or released into the environment. Using this information, citizens, businesses, and governments can work together to protect the quality of their land, air and water. The new software used in the 1987-1996 TRI CD-ROM, is flexible and powerful, capable of searching over 200 fields (e.g., by chemical, company, kind of release, or zip code, and across multiple years of data). The CD-ROM also allows users to conduct multiple and complex queries, which are especially useful to those who wish to analyze trends or perform statistical analysis. The following information is found on the TRI CD:facility name, location and type of business. off-site locations to which the facility transfers toxic chemicals in waste. whether the chemical is manufactured (including importation), processed, or otherwise used and the general categories of use of the chemical. an estimate (in ranges) of the maximum amounts of the toxic chemical present at the facility at any time during the preceding year. quantity of the chemical entering each medium - air, land, and water - annually. waste treatment/disposal methods and efficiency of methods for each waste stream. optional information on waste minimization.In additon the TRI data, the CD-ROM provides a wealth of other TRI information, such as: tutorial , Annual TRI Data Release Book, State Fact Sheets, TRI's reporting Forms R and A and Chemical Fact Sheets on many of the TRI chemicals. The 1987-1996 TRI CD-ROM is a user-friendly Windows application that includes LANDVIEW III, a geographic information systems (GIS) package. The GIS package allows the user to locate TRI facilities and other EPA sites in relation to roads, rivers, schools, hospitals and more. In addition, census information is included to display demographic information such as population by income, race, density, and more. How TRI Is Used TRI is used by EPA as a baseline for measuring improvements in companies across the nation. The TRI is a rich source of data for a broad-based audience that includes manufacturers, environmental consulting firms, trade associations, groups, health professionals, state and local environmental agencies, Local Emergency Planning Committees (LEPCs), and federal agencies.

Keywords: *Data file, *Chemical compounds, *Toxic substances, Hazardous materials, Air pollution, Water pollution, Land pollution, Manufacturing, Industrial plants, Waste management, Waste disposal, Waste processing, United States, Public information, Emissions, Emergency preparedness, Requirements, Pollution regulations, Waste streams, Geographic infomation systems, CD-ROM, *Toxic Release Inventory, EPCRA(Emergency Planning and Community Right-to-Know Act).

PB99-501660REB CD-ROM CP D02
QTRACER: Tracer-Breakthrough Curve Analysis for Karst and Fractured-Rock Acquifer (on CD-ROM). Model-Simulation.
Environmental Protection Agency, Washington, DC. Office of Solid Waste.
Feb 1999, 1 CD-ROM.
Requires either MS-DOS or Windows 3.1 or higher.
The software is on one disc. Printed documentation included; may be ordered separately as PB99-151904. 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.

Tracer tests are generally regarded as being the most reliable and efficient means of gathering subsurface hydraulic information. This is true for all typed of aguifers, but especially so for karst and fractured-rock aquifers. Qualitative tracing tests have been conventionally employed in most karst sites in the United States. Quantitative tracing tests are employed sparingly at karst sites in the Unites States, although it is widely recognized that they provide a wealth of hydraulic and geometric data on subsurface conditions. Quantitative tracer tests are regarded as more difficult and time-consuming than qualitative tracing tests, which is a fallacy to be overcome. The benefits of quantitative tracing far outweigh any additional expenses that are incurred. An efficient, reliable and easy-to-use computer program, QTRACER, designed to run on PCs running any version MS-DOS or Windows, has been developed to facilitate tracer-breakthrough curve analysis. It solves the necessary equations from user-generated data input files using robust integration routines and by relying on established hydraulic models. Additional features include dynamical memory allocation, ability to extrapolate late-time data using any one of three difficult methods, two separate methods for handling oversized time-concentration data files, and a powerful interactive graphics routine. Two other programs are included to facilitate the use of QTRACER. The first, NDATA, allows the user to interpolate either their time-concentration or time-discharge data files to fill in data gaps. The second programs, AUTOTIME, allows the user to convert time-concentration data files recorded using military time into sequential decimal time as required by QTRACER. Files created by these two programs may be appended to the bottom of a sampling station data file that can be read by QTRACER.

Keywords: *Models-simulation, *Software, *Aquifer systems, *Karst hydrology, *Tracer techniques, Subsurface flow, Groundwater movement, Hydraulics, Fracture permeability, Geologic fractures, Tracer studies, Discharge(Water), Concentration(Composition), CD-ROM, QTRACER computer model.

PB99-501678REB CD-ROM CP D01
Exposure Factor Handbook (EFH) (on CD-ROM with Search and Retrieval Software). Data file.
Environmental Protection Agency, Research Triangle Park, NC. National Center for Environmental Assessment.
Feb 1999, 1 CD-ROM, EPA/600/C-99/001.
Contains search and retrieval software. PC compatibles; Windows 3.1 or greater; Macintosh: System 7. Requires 4.5 MB hard disk space. Uses Adobe Acrobat. See also PB98-124225, PB98-124233, PB98-124241. Y2K - compliant.
The datafile is on one disc. 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 Exposure Factors Handbook provides a summary of the available statistical data on various factors used in assessing human exposure. This Handbook is addressed to exposure assessors inside the Agency as well as outside, who need to obtain data on standard factors to calculate human exposure to toxic chemicals. These factors include: drinking water consumption, soil ingestion, inhalation rates, dermal factors including skin area and soil adherence factors, consumption of fruits and vegetables, fish, meats, dairy products, homegrown foods, breast milk intake, human activity factors, consumer product use, and residential characteristics. Recommended values are for the general population and also for various segments of the population who may have characteristics different from the general population. NCEA has strived to include full discussions of the issues that assessors should consider in deciding how to use these data and recommendations. The CD-ROM has word search capabilities, downloadable tables (this feature cannot be used on Macintosh computers), hypertext links to various chapters in the document, and key references. The Handbook- Summarizes data on human behaviors and characteristics which affect exposure to environmental contaminants - Recommends values to use for these factors. These recommendations are not legally binding on any EPA program and should be interpreted as suggestions which program offices or individual exposure assessors can consider and modify as needed. Most of these factors are best quantified on a site or situation-specific basis. The handbook has strived to include full discussions of the issues which assessors should consider in deciding how to use these data and recommendations. The handbook is intended to serve as a support document to EPA's Guidelines for Exposure Assessment (U.S. EPA, 1992a). The Guidelines were developed to promote consistency among the various exposure assessment activities that are carried out by the various EPA program offices. This handbook assists in this goal by providing a consistent set of exposure factors to calculate dose. Information in this handbook has been summarized from studies documented in the scientific literature and other available sources. Studies were chosen that were seen as useful and appropriate for estimating exposure factors. The handbook contains summaries of selected studies published through August 30, 1997.

Keywords: *Data file, *Environmental exposure, *Factor analysis, *Public health, *Risk assessment, Residential buildings, Consumer products, Food intake, Food consumption, Food chains, Drinking water, Water consumption, Ingestion(Biology), Inhalation, Skin absorption, Toxic substances, Chemical compounds, Environmental transport, Utilization, Health hazards, Maximum permissible exposure, Maximum permissible intake, Variability, Uncertainty, Statistical analysis, *Exposure factors.

PB99-501736REB CD-ROM CP D04
Toxic Substances Control Act (TSCA) TSCATS (Test Submissions Database) Comprehensive Update (Raw Data File) (on CD-ROM). Data file.
Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics.
1999, 1 CD-ROM.
This product contains text only. Customers must supply their own search and retrieval software. product no longer available on magnetic tape. Supersedes PB98-500183. See also PB96-502596, PB97-591331, PB97-500318, and PB97-500292.
The datafile is on one 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 select 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, Hazardous materials, Industrial wastes, Chemical spills, Environmental effects, Environmental health, Health effects, Health hazards, Ecosystems, Environmental exposure, Risk assessment, Tests, Information dissemination, Data bases, CD-ROM, Environmental fate.

PB99-501959REB Mag Tape $454.00
Toxic Substances Control Act (TSCA): ASCII or EBCDIC Data July 1999. TSCA Chemical Substances Inventory: Revised Inventory Synonym and Preferred Name File (Raw Data File) (on Magnetic Tape or CD-ROM). Data file.
Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics.
Jul 1999, magnetic tapes.
Supersedes PB97-503205, PB97-501456, PB98-500556, PB98-502404, and PB99-500654. Y2K - compliant.
Formats: Available in ASCII or EBCDIC character set tape, 6250 bpi, 3480 cartridge, CD-ROM. 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, PB99-501967, $161; or (C) Datafile on mag tape, PB99-501959, $454. Prices outside the U.S., Canada, and Mexico are double.

The TSCA Chemical Substance Inventory provides chemical identity information for the 63,859 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 approximate information, such as valid chemical names reported by submitters. The entrie are in acending CAS Registry Number order.

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

PB99-501967REB Diskette $161.00
Toxic Substances Control Act (TSCA): ASCII Text Data July 1999. 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.
Jul 1999, 3 diskettes.
This product contains text only. Customers must provide their own search and retrieval software. Files are compressed. Supersedes PB99-500670, PB97-503163, PB97-501431, PB98-500564, and PB98-502412. Y2K - not relevant.
The datafile is on three diskettes, 1.4M high density. File format: ASCII text. Also available on CD-ROM. 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, PB99-501967, $161; or (C) Datafile on magnetic tape, PB99-501959, $454. Prices outside the U.S., Canada, and Mexico are double.

The TSCA Chemical Substantial Inventory provides chemical identity information for the 63,859 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 entire are in ascending CAS Registry Number order.

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

PB99-501975REB CP D01
Toxic Substances Control Act (TSCA)-PMN File: ASCII Text Data July 1999. 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.
Jul 1999, 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 PB99-500662, PB97-503189, PB97-501449, PB98-500572, and PB98-502388. Y2K - not relevant.
The datafile is on one 3 1/2 inch DOS diskette, 1.44M 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-reference 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 Substance Control Act, Nomenclature, Molecular structure, Inventories, Diskettes, *Chemical Substances Inventory, CAS Registry Number, Molecular formula, PMN(Premature Notification).

PB99-502106REB CD-ROM CP D04
Toxic Substances Control Act (TSCA) TSCATS (Test Submissions Database) Comprehensive Update (Raw Data File) (on CD-ROM). August 1999. Data file.
Environmental Protection Agency, Washington, DC. Office of Pollution, Prevention, and Toxics.
Aug 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 PB99-501736. See also PB96-502596, PB97-591331, PB97-500318, and PB97-500292.
The datafile is on one 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 select 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: *Data file, *Industrial accidents, *Chemical spills, Public health, CD-ROM, Tests, Reagents, Factory waste, Trade waste, *Toxic Substances Control Act, Environmental effects, Environmental health, Environmental risk assessment.

PB99-963225REB PC A06/MF A01
Environmental Response Training Program Schedule of Courses, September 27, 1999 - September 29, 2000.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
Jun 1999, 82p, EPA-540-R-99-011, OSWER-9285.9-31D.
See also PB98-963227, PB87-963223, PB96-963234, and PB95-963242.
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.

As part of EPA's comprehensive program for protecting the public and the environment from hazardous materials, the Emergency Response Division of OERR has developed the Environmental Response Training Program (ERTP). The courses in this program are designed for personnel who respond to emergencies or who investigate the clean up abandoned hazardous waste sites. Training is provided in safety and health as well as in the various technical operations needed to identify, evaluate, and control hazardous substances that have been released.

Keywords: *Superfund, *Hazardous materials, *Waste management, Abandoned sites, Pollution control, Remediation, Waste disposal, Ground water, Oil spills, Air quality, Sampling, Safety management, Inspection, Site characterization, Risk assessment, Emergency preparedness, Radioactive wastes, Occupational safety and health, Training, Education, *Cleanup operations, *Emergency response, Treatment technology, OERR(Office of Emergency and Remedial Response).

PB99-963228REB PC A03/MF A01
Focus Areas for Headquarters Support for Regional Decision Making.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
22 May 1999, 24p, EPA/540/F-99/017, OSWER-9200.1-17P.

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This memorandum outlines the technical and policy areas the Office of Emergency and Remedial Response (OERR) is focusing its regional coordination efforts on in FY 1996 to promote appropriately consistent program implementation and effective communication between Headquarters and the Regions.

Keywords: *Superfund, *US EPA, *Decision making, *Program administration, *Implementation, Government policies, Government programs, Waste management, Remediation, Coordination, Communication's management, Organizational effectiveness, Federal regions, *Office of Emergency and Remedial Response, Cleanup operations.

PB99-963231REB PC A03/MF A01
Implementation of EPA/FEMA MOU on CERCLA Relocations. Directive.
Environmental Protection Agency, Washington, DC. Office of Emergency and Remedial Response.
14 Jun 1983, 21p, EPA/540/F-99/018, OSWER-9295.5-02.
See also PB91-214072.
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.

The signed Memorandum of Understanding (MOU) between the Federal Emergency Management Agency (FEMA) and EPA cover major responsibilities and coordination on CERCLA relocation activities. The signed MOU incorporates comments made by Headquarters and Regional Offices of both agencies on the draft MOU distributed in February. All comments received have been addressed in the MOU or responded to individually.

Keywords: *US EPA, *US FEMA, *Population relocation, *Sites, *Responsibility, Evacuation, Superfund, Environmental pollution, Waste management, Remedial action, Interagency coordination, Authority.

ADA363488REB PC A03/MF A01
Improving the Environmental Safety of Munitions Disposal by OB and OD. Final rept.
Environmental Protection Agency, Washington, DC.
W. J. Mitchell, T. E. Ward, and R. J. Black. May 1997, 12p.
Prepared cooperation in U.S. Army, Dugway, Ut.
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Burning and detonating in an open area (OB, OD) and more recently, detonating underground (buried-OD), are the traditional methods for disposing of UXO and surplus or%unserviceable energetic materials. Some countries prohibit OB and OD activities entirely and others, such as the U.S., restrict them. In the U.S., the disposal of energetic materials by OB and OD is regulated under Subpart X of Part 264 of the Resource Conservation and Recovery Act.. A Subpart X permit is required to conduct OB and OD because of concerns about: (1) the extent to which the energetic material is converted to innocuous chemicals; (2) the toxicities and dispersion in the environment of the ash, soil and chemical pollutants released; and (3) the blast noise. Because of these concerns the Subpart X permits that have been issued are very restrictive, particularly regarding the quantities that can be destroyed at one time, and over a specified period of time. Unfortunately, at many Subpart X permits require the facility to bury the munitions under one to three meters of soil before they are detonated. While this mitigates the blast noise, as will be shown later in this paper, it increases substantially the quantities of pollutants released.

Keywords: *Toxicity, *Ammunition, *Waste disposal, *Hazardous materials, Environments, Chemicals, Quantity, Materials, Measuring instruments, Safety, Resources, Pollutants, Noise, Conservation, Energetic properties, Blast, Ashes, Serdp collection.

ADA364012REB PC A07/MF A02
Environmental Technology Verification Report. Field Portable Gas Chromatograph/Mass Spectrometer. Viking Instruments Corporation SpectraTrak (Trademark) 672. Technical rept.
Sandia National Labs., Albuquerque, NM.
W. Enfield, S. F. Bender, M. R. Keenan, S. M. Thornberg, and M. M. Hightower. Dec 1997, 103p, EPA/600/R-97/148.
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The Viking SpectraTrak (Trademark) 672 GC/MS is an integrated system combining a temperature programmable gas chromatograph combined with a Hewlett Packard quadrupole mass spectromoter. This self-contained, field transportable system, whose design has been adapted from laboratory technology, uses a contained, chromatographic column and accompanying mass spectrometer to provide separation, identification, and quantification of volatile and semi-volatile organic compounds in sample matrices that include soil, liquid, and gas. The column enables the separation of individual analytes in complex mixtures. A mass spectrum, produced for each compound in the sample, can be used for compound identification and quantification. An integrated computer and data acquisition system enables identification and quantification of the analytes by comparison of detector response with a calibration table constructed from standards of known concentration. The system provides detection limits that range from about 5 ppm for direct gas injection to as low as 5 ppb for many volatile and semi-volatile organic contaminants in soils and liquids.

Keywords: *Portable equipment, *Mass spectrometers, *Gas chromatography, Integrated systems, Verification, Chemical contamination, Liquids, Soils, Organic compounds, Environmental management, Chemical analysis, Field equipment, Serdp(Strategic environmental research and development program), Serdp collection, Viking spectratrak 672 (T), Hewlett packard quadrupole mass spectrometer, Voc(Volatile organic compound).

DE98006268REB PC A25/MF A04
1998 federal technical standards workshop: Proceedings.
USDOE Assistant Secretary for Environment, Safety, and Health, Washington, DC (United States). National Inst. of Standards and Technology, Gaithersburg, MD (United States).
31 Dec 1998, 566p, CONF-980822-PROC.
1998 federal technical standards workshop.
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The theme for the 1998 workshop was Standards Management -- A World of Change and Opportunities. The workshop's goal was to further the implementation of the National Technology Transfer and Advancement Act of 1995 (Public Law 104- 113) through the sharing of standards management success stories, lessons learned, and emerging initiatives within the Executive Branch of the Federal Government. The target audience for this workshop included agency/department and contractor personnel and representatives of standards developing organizations that either used technical standards in their work for the Federal Government of participated in standards writing/management activities in support of the missions and programs of Federal agencies/departments. This report includes vugraphs of the presentations.

Keywords: *Standards, *Federal government, *Us Organizations, Meetings, Program Management, Implementation, Planning, EDB/990100.

DE98056099REB PC A04/MF A01
Sorbent-coated diffusion denuders for direct measurement of gas/particle partitioning by semi-volatile organic compounds.
USDOE Office of Energy Research, Washington, DC (United States).
L. A. Gundel, and D. A. Lane. 31 Jan 1998, 47p, LBNL-41278.
Contract AC03-76SF00098, Grant 5-R01-HL42490
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Sorbent-coated annular denuder-based samplers have been developed for direct determination of both gaseous and particulate semi-volatile organic species. The first such sampler, the Integrated Organic Vapor/Particle Sampler, has been validated for sampling semi-volatile PAH in ambient air and environmental tobacco smoke. Multi-channel versions of the IOVPS have been used successfully for investigation of gas/particle partitioning of a variety of semi-volatile organic species in combustion source-enriched environmental chambers. Subsequent improvements have resulted in two new higher-capacity samplers, the IOGAPS and the jumbo-IOGAPS, that use the same sorbent for sampling trace organics in the ambient atmosphere for 24--48 hr periods over a wide temperature range. Construction of these new samplers began by incorporating the IOVPS coating technology onto the gas collection surfaces of the higher capacity GAP sampler. Substantial design effort aims to ensure that vapor phase components as volatile as naphthalene can be trapped efficiently and retained by the sorbent-coated surface while the particles pass through to the filter.

Keywords: *Air Pollution Monitoring, *Air Samplers, *Polycyclic Aromatic Hydrocarbons, Design, Phase Studies, Experimental Data, Performance Testing, Tables(data), EDB/540120.

DE98056102REB PC A03/MF A01
Department of Energy, Washington, DC.
Monitoring evaluation, reporting and verification of climate change mitigation projects.
Environmental Protection Agency, Washington, DC (United States).
E. Vine, and J. Sathaye. 31 May 1998, 24p, LBNL-41520.
Contract AC03-76SF00098
ACEEE summer study. Sponsored by Department of Energy, Washington, DC.
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Because of concerns with the growing threat of global climate change from increasing emissions of greenhouse gases, the US and other countries are implementing, by themselves or in cooperation with one or more other nations, climate change mitigation projects. These projects will reduce greenhouse gas (GHG) emissions or sequester carbon, and will also result in non-GHG benefits (i.e., environmental, economic, and social benefits). Monitoring, evaluating, reporting, and verifying (MERV) guidelines are needed for these projects to accurately determine their net GHG, and other, benefits. Implementation of MERV guidelines is also intended to: (1) increase the reliability of data for estimating GHG benefits; (2) provide real-time data so that mid-course corrections can be made; (3) introduce consistency and transparency across project types and reporters; and (4) enhance the credibility of the projects with stakeholders. In this paper, the authors review the issues involved in MERV activities. They identify several topics that future protocols and guidelines need to address, such as: (1) establishing a credible baseline; (2) accounting for impacts outside project boundaries through leakage; (3) net GHG reductions and other benefits; (4) precision of measurement; (5) MERV frequency; (6) persistence (sustainability) of savings, emissions reduction, and carbon sequestration; (7) reporting by multiple project participants; (8) verification of GHG reduction credits; (9) uncertainty and risk; (10) institutional capacity in conducting MERV; and (11) the cost of MERV.

Keywords: *Climatic Change, *Global Aspects, Greenhouse Gases, Air Pollution Abatement, International Cooperation, Air Pollution Monitoring, Environmental Impacts, Recommendations, Reporting Requirements, Meetings, EDB/540120.

DE98056104REB PC A04/MF A01
Healthy building intervention study: Objectives, methods and results of selected environmental measurements.
USDOE Office of Energy Research, Washington, DC (United States).
W. J. Fisk, D. Faulkner, and D. Sullivan. 17 Feb 1998, 49p, LBNL-41546.
Contract AC03-76SF00098
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To test proposed methods for reducing SBS symptoms and to learn about the causes of these symptoms, a double-blind controlled intervention study was designed and implemented. This study utilized two different interventions designed to reduce occupants' exposures to airborne particles: (1) high efficiency filters in the building's HVAC systems; and (2) thorough cleaning of carpeted floors and fabric-covered chairs with an unusually powerful vacuum cleaner. The study population was the workers on the second and fourth floors of a large office building with mechanical ventilation, air conditioning, and sealed windows. Interventions were implemented on one floor while the occupants on the other floor served as a control group. For the enhanced-filtration intervention, a multiple crossover design was used (a crossover is a repeat of the experiment with the former experimental group as the control group and vice versa). Demographic and health symptom data were collected via an initial questionnaire on the first study week and health symptom data were obtained each week, for eight additional weeks, via weekly questionnaires. A large number of indoor environmental parameters were measured during the study including air temperatures and humidities, carbon dioxide concentrations, particle concentrations, concentrations of several airborne bioaerosols, and concentrations of several microbiologic compounds within the dust sampled from floors and chairs. This report describes the study methods and summarizes the results of selected environmental measurements.

Keywords: *Indoor Air Pollution, *Office Buildings, Air Quality, Air Filters, Space Hvac Systems, Surface Cleaning, EDB/320107.

DE98056108REB PC A07/MF A02
Effects of pore fluids in the subsurface on ultrasonic wave propagation. THESIS.
USDOE Office of Energy Research, Washington, DC (United States).
P. K. Seifert. 31 May 1998, 121p, LBNL-41781.
Contract AC03-76SF00098, Grant AFOSR-960010
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This thesis investigates ultrasonic wave propagation in unconsolidated sands in the presence of different pore fluids. Laboratory experiments have been conducted in the sub-MHz range using quartz sand fully saturated with one or two liquids. Elastic wave propagation in unconsolidated granular material is computed with different numerical models: in one-dimension a scattering model based on an analytical propagator solution, in two dimensions a numerical approach using the boundary integral equation method, in three dimensions the local flow model (LFM), the combined Biot and squirt flow theory (BISQ) and the dynamic composite elastic medium theory (DYCEM). The combination of theoretical and experimental analysis yields a better understanding of how wave propagation in unconsolidated sand is affected by (a) homogeneous phase distribution; (b) inhomogeneous phase distribution, (fingering, gas inclusions); (c) pore fluids of different viscosity; (d) wettabilities of a porous medium. The first study reveals that the main ultrasonic P-wave signatures, as a function of the fraction on non-aqueous-phase liquids in initially water-saturated sand samples, can be explained by a 1-D scattering model. The next study investigates effects of pore fluid viscosity on elastic wave propagation, in laboratory experiments conducted with sand samples saturated with fluids of different viscosities. The last study concentrates on the wettability of the grains and its effect on elastic wave propagation and electrical resistivity.

Keywords: *Sand, *Water Saturation, Interstitial Water, Ultrasonic Waves, Wave Propagation, Mathematical Models, Site Characterization, Dodecane, Viscosity, Electric Conductivity, EDB/580000, EDB/540210, Theses.

DE98057493REB PC A03/MF A01
Department of Energy, Washington, DC.
Measured energy savings of light colored roofs: Results from three California demonstration sites.
Environmental Protection Agency, Washington, DC (United States).
H. Akbari, L. Gartland, and S. Konopacki. 30 Jun 1998, 13p, LBNL-41907.
Contract AC03-76SF00098
ACEEE summer study. Sponsored by Department of Energy, Washington, DC.
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Measured data and computer simulations have demonstrated the impact of roof albedo in reducing cooling energy use in buildings. Savings are a function of both climate and the amount of roof insulation. The cooling energy savings for reflective roofs are highest in hot climates. A reflective roof may also lead to higher heating energy use. Reflective coatings are also used in commercial buildings to protect the roofing membrane, and hence, maintain and prolong the useful life of the roof. To monitor the field performance of reflective coatings, the authors initiated a demonstration project where three commercial buildings in California were painted with light-colored roof coatings. The buildings are two medical care centers and one drug store. At all sites, the roof reflectance, both fresh and aged, and cooling energy use were monitored. In addition, they measured temperature throughout the roof systems and inside the conditioned space. In the monitored buildings, increasing the roof reflectance from an initial value of about 20% to 60%, dropped the roof temperature on hot summer afternoons by about 45 F. Summertime standard-weekday average daily air-conditioning savings were 18% (198 kWh) in the first medical office building, 13% (86 kWh) in the second medical office building, and 2% (13 kWh) in the drug store. The overall u-value of the roofs had dictated the impact of roof reflectance.

Keywords: *Roofs, *Commercial Buildings, *Energy Conservation, Albedo, Reflection, Cooling Load, Cost Benefit Analysis, EDB/320107.

DE98058251REB PC A03/MF A01
Residential energy use in Lithuania: The prospects for energy efficiency.
USDOE Office of Energy Research, Washington, DC (United States).
E. Vine, and E. Kazakevicius. 30 Jun 1998, 22p, LBNL-41540.
Contract AC03-76SF00098
ACEEE summer study.
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.

While the potential for saving energy in Lithuania's residential sector (especially, space heating in apartment buildings) is large, significant barriers (financial, administration, etc.) to energy efficiency remain. Removing or ameliorating these barriers will be difficult since these are systematic barriers that require societal change. Furthermore, solutions to these problems will require the cooperation and, in some cases, active participation of households and homeowner associations. Therefore, prior to proposing and implementing energy-efficiency solutions, one must understand the energy situation from a household perspective.

Keywords: *Energy demand, *Lithuania, Apartment Buildings, Human Factors, Space Heating, Energy Conservation, Institutional Factors, Socio-economic Factors, District Heating, Financing, Meetings, EDB/320105, EDB/320601.

TITLE INDEX

Reports are listed alphabetically by title. A, An, and The at the beginning of a title are ignored in alphabetizing.

SAMPLE ENTRY

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

TITLE INDEX

3DHYDROGEOCHEM: A 3-Dimensional Model of Density-Dependent Subsurface Flow and Thermal Multispecies-Multicomponent HYDROGEOCHEMical Transport.
PB99-150419REB 99-04 PC A09/MF A02

1998 federal technical standards workshop: Proceedings.
DE98006268REB 99-04 PC A25/MF A04

ABEL Model: Evaluates Corporations' Claims of Inability to Afford Penalities and Compliance Costs (Version 3.0.16) (on Diskette).
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Air Emissions from Residential Heating: The Wood Heating Option Put into Environmental Perspective.
PB99-129934REB 99-02 PC A03/MF A01

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PB99-137416REB 99-03 PC A03/MF A01

Air Quality Impacts of Intercity Freight. Volume 2. Appendices.
PB99-119620REB 99-01 PC A15/MF A03

Alaska Placer Mining Metals Study, Year Two.
PB99-169146REB 99-04 PC A07/MF A02

Alternative Disinfectants and Oxidants Guidance Manual.
PB99-111437REB 99-03 PC A15/MF A03

Ambient Air Precision and Accuracy Program, 1996 Annual Report.
PB99-134884REB 99-02 PC A04/MF A01

Ambient Monitoring of Formaldehyde with the Methanalyzer.
PB99-102212REB 99-01 PC A03/MF A01

Ambient Toxicity Testing in Chesapeake Bay. Year 6 Report.
PB99-115487REB 99-01 PC A10/MF A02

Ambient Water Quality Criteria for the Protection of Human Health: Acrylonitrile.
PB99-101289REB 99-01 PC A04/MF A01

Anaerobic Bioremediation of Chlorinated Ethenes.
PB99-143307REB 99-03 PC A03/MF A01

Analysis of Carbonaceous Aerosols Using the Thermal Optical Transmittance and Thermal Optical Reflectance Methods.
PB99-171597REB 99-04 PC A03/MF A01

Analysis of State Superfund Programs: 50-State Study, 1998 Update.
PB99-963210REB 99-02 PC A15/MF A03

Analysis of Trace-Level Organic Combustion Process Emissions Using Novel Multidimensional Gas Chromatography-Mass Spectrometry Procedures.
PB99-163115REB 99-04 PC A03/MF A01

Annual Environmental Conditions Report, 1998 (Illinois Environmental Protection Agency).
PB99-171845REB 99-04 PC A06

Appendix B: SO2, NOx, CO2, and Heat Input Data for 1997.
PB99-147589REB 99-04 PC A08/MF A02

Application for Certification for Model Year 1999, Light-Duty Truck, Land Rover.
PB99-162414REB 99-04 PC A17/MF A03

Application of a Hybrid Compartmental Model to the Neuse River Basin of North Carolina.
PB99-102220REB 99-01 PC A03/MF A01

Application of Intelligent Controls in EPA's Combustion Technology Research and Development.
PB99-126500REB 99-02 PC A02/MF A01

Application of Multifuel Reburn for NOx Control on a 300 MWe Boiler in Ukraine.
PB99-146391REB 99-03 PC A03/MF A01

Application of Pollution Prevention Techniques to Reduce Indoor Air Emissions from Engineered Wood Products.
PB99-118309REB 99-02 PC A10/MF A03

Application of the Electromagnetic Borehole Flowmeter.
PB99-100018REB 99-02 PC A05/MF A01

Approach to ensuring quality in environmental software.
DE98054110REB 99-02 PC A05/MF A01

Archive Operations and Protocols (Concerning Lead Based Paint).
PB99-113425REB 99-01 PC A11/MF A03

Arsenic in Drinking Water.
PB99-167306REB 99-04 PC A16/MF A03

Asian and Pacific Islander Seafood Consumption Study in King County, WA. Exposure Information Obtained through a Community-Centered Approach. Study Results and Education Outreach.
PB99-162422REB 99-04 PC A10/MF A02

Asphalt Roofing Industry Fourier Transform Infrared Spectroscopy Modified Bitumen.
PB99-168866REB 99-04 PC A14/MF A03

Automated Stationary Source Dynamic Spiking.
PB99-118341REB 99-02 PC A08/MF A02

Background Report on Fertilizer Use, Contaminants and Regulations.
PB99-149387REB 99-03 PC A19/MF A04

Baghouse Filtration Products Verification.
PB99-102196REB 99-01 PC A06/MF A01

BEN Model: Calculates Violators' Economic Benefits from Noncompliance (Windows Version 1.0.1) (on Diskette).
PB99-501587REB 99-03 Diskette $50.00

Better Assessment Science Integrating Point and Nonpoint Sources (BASINS) Modeling System. EPA Region 1 (CT, ME, MA, NH, RI, VT) (Version 2.0) (on CD-ROM).
PB99-500696REB 99-02 CD-ROM CP D02

Better Assessment Science Integrating Point and Nonpoint Sources (BASINS) Modeling System. EPA Region 2 (NJ, NY, PR, VI) (Version 2.0) (on CD-ROM).
PB99-500704REB 99-02 CD-ROM CP D02

Better Assessment Science Integrating Point and Nonpoint Sources (BASINS) Modeling System. EPA Region 3 (DE, DC, MD, PA, VA) (Version 2.0) (on CD-ROM).
PB99-500712REB 99-02 CD-ROM CP D01

Better Assessment Science Integrating Point and Nonpoint Sources (BASINS) Modeling System. EPA Region 4 (AL, FL, GA, KY, MS, NC, SC, TN) (Version 2.0) (on CD-ROM).
PB99-500720REB 99-02 CD-ROM CP D01

Better Assessment Science Integrating Point and Nonpoint Sources (BASINS) Modeling System. EPA Region 5 (IL, IN, MI, MN, OH, WI) (Version 2.0) (on CD-ROM).
PB99-500738REB 99-02 CD-ROM CP D01

Better Assessment Science Integrating Point and Nonpoint Sources (BASINS) Modeling System. EPA Region 6 (AR, LA, NM, OK, TX) (Version 2.0) (on CD-ROM).
PB99-500746REB 99-02 CD-ROM CP D01

Better Assessment Science Integrating Point and Nonpoint Sources (BASINS) Modeling System. EPA Region 7 (IA, KS, MO, NE) (Version 2.0) (on CD-ROM).
PB99-500753REB 99-02 CD-ROM CP D01

Better Assessment Science Integrating Point and Nonpoint Sources (BASINS) Modeling System. EPA Region 8 (CO, MT, ND, SD, UT, WY) (Version 2.0) (on CD-ROM).
PB99-500761REB 99-02 CD-ROM CP D01

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Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 4): Wrigley Charcoal Plant, Wrigley, TN., October 20, 1997.
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Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Reilly Tar and Chemical (Indianapolis Plant), Indianapolis, IN., October 6, 1997.
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PB98-963102REB 99-03 PC A04/MF A01

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PB98-963144REB 99-03 PC A03/MF A01

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PB98-963121REB 99-03 PC A05/MF A01

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PB98-963145REB 99-03 PC A06/MF A01

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PB98-963120REB 99-03 PC A05/MF A01

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PB98-963155REB 99-03 PC A04/MF A01

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PB98-963714REB 99-03 PC A09/MF A02

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PB98-963704REB 99-02 PC A08/MF A02

Superfund Record of Decision (EPA Region 1): Brunswick Naval Air Station Site 2: Orion Street LF (South), Brunswick, ME., September 29, 1998.
PB98-963712REB 99-03 PC A07/MF A02

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PB98-963707REB 99-03 PC A19/MF A04

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PB98-963708REB 99-03 PC A07/MF A02

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PB98-963709REB 99-03 PC A16/MF A03

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PB98-963717REB 99-03 PC A13/MF A03

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PB98-963702REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 1): New London Submarine Base, Soil and Sediment Area A Downstream Water Courses/Overbank Disposal Area, Groton, CT., March 31, 1998.
PB98-963703REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 1): New London Submarine Base, Source Control Operable Unit 10, New London, CT., June 26, 1998.
PB98-963711REB 99-03 PC A03/MF A01

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PB98-963715REB 99-03 PC A05/MF A01

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PB98-963716REB 99-03 PC A15/MF A03

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PB98-963713REB 99-03 PC A15/MF A03

Superfund Record of Decision (EPA Region 2): Asbestos Dump, Operable Unit 3, Millington, NJ., September 8, 1998.
PB98-963805REB 99-03 PC A09/MF A02

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PB98-963133REB 99-03 PC A02/MF A01

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PB98-963812REB 99-03 PC A18/MF A04

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PB98-963807REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 2): Naval Weapons Station Earle (Site A), Operable Unit 3, Colts Neck, NJ., September 29, 1998.
PB98-963810REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 2): Plattsburgh Air Force Base, SS-005, Operable Unit 12, Plattsburgh, NY., April 2, 1998.
PB98-963803REB 99-02 PC A05/MF A01

Superfund Record of Decision (EPA Region 2): Plattsburgh Air Force Base, SS-006, Operable Unit 13, Plattsburgh, NY., April 2, 1998.
PB98-963804REB 99-02 PC A05/MF A01

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PB98-963802REB 99-02 PC A15/MF A03

Superfund Record of Decision (EPA Region 2): Sayreville Landfill, Operable Unit 2, Sayreville, NJ., September 23, 1998.
PB98-963806REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 2): York Oil Co., Operable Unit 2, Moira, NY., September 29, 1998.
PB98-963808REB 99-03 PC A12/MF A03

Superfund Record of Decision (EPA Region 3): Allegany Ballistics Laboratory (USNavy) Site 10, Mineral, WV., June 30, 1998.
PB98-963917REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Dover Air Force Base, WP 21 and IWBs Areas, Dover, DE., May 1, 1998.
PB98-963916REB 99-03 PC A05/MF A01

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PB98-963915REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Halby Chemical Co., Operable Unit 2, New Castle, DE., March 31, 1998.
PB98-963906REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 3): Langley AFB/NASA Langley Center, Area E, Warehouse Operable Unit, Hampton, VA., September 28, 1998.
PB98-963910REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 3): Langley AFB/NASA Langley Center, Tabbs Creek Operable Unit, Hampton, VA., September 30, 1998.
PB98-963909REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Letterkenny Army Depot (PDO and SE Areas), Chambersburg, Franklin County, PA., September 30, 1998.
PB98-963911REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 3): Malvern TCE, Malvern, PA., November 26, 1997.
PB98-963903REB 99-03 PC A10/MF A02

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PB98-963904REB 99-02 PC A09/MF A02

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PB98-963908REB 99-03 PC A04/MF A01

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PB98-963905REB 99-02 PC A05/MF A01

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PB98-963912REB 99-03 PC A06/MF A01

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PB98-963913REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Naval Weapons Station-Yorktown, Operable Units 6 and 7, Yorktown, VA., March 23, 1998.
PB98-963919REB 99-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 3): Norfolk Naval Base, Operable Unit 2, CD Landfill Site 6, Norfolk, VA., September 30, 1998.
PB98-963914REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 3): Ohio River Park Site, Operable Unit 3, Neville Island, PA., September 17, 1998.
PB98-963907REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 3): US Navy Ships Parts Control Center Site 1: Carter Road Landfill, Mechanicsburg, PA., September 30, 1998.
PB98-963918REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Agriculture and Nutrition (Montgomery), Operable Unit 2, Montgomery, AL., September 28, 1998.
PB98-964014REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Calhoun Park Area, Charleston, SC., September 30, 1998.
PB98-964024REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Camp Lejeune Military Reservation (USNavy) Operable Unit 11, Site 7 and 80, Onslow County, NC., January 20, 1998.
PB98-964003REB 99-02 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 5, Jacksonville, FL., August 4, 1998.
PB98-964010REB 99-03 PC A04/MF A01

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PB98-964011REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 8, Jacksonville, FL., August 27, 1998.
PB98-964012REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Davis Park Road TCE, Gastonia, NC., September 29, 1998.
PB98-964009REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Flanders Filters, Inc., Site, Washington, NC., September 18, 1998.
PB98-964020REB 99-03 PC A09/MF A02

Superfund Record of Decision (EPA Region 4): Homestead Air Force Base, Operable Unit 2, Homestead, FL., July 16, 1998.
PB98-964007REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Jacksonville Naval Air Station, Operable Unit 1, Jacksonville, FL., August 3, 1998.
PB98-964006REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Koppers Co., Inc. (Charleston Plant), Charleston, SC., April 29, 1998.
PB98-964022REB 99-03 PC A16/MF A03

Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 5, Albany, GA., February 11, 1998.
PB98-964019REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Milan Army Ammunition Plant, Milan, TN., March 11, 1998.
PB98-964004REB 99-02 PC A08/MF A02

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PB98-964002REB 99-03 PC A04/MF A01

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PB98-964025REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE), Operable Unit 15, Paducah, KY., August 10, 1998.
PB98-964026REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 1, FL., September 25, 1998.
PB98-964016REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 14, Pensacola, FL., September 25, 1998.
PB98-964017REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 17, Pensacola, FL., September 25, 1998.
PB98-964018REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) D-Area Oil Seepage Basin (631-G), Aiken, SC., August 14, 1998.
PB98-964027REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), F-Area Retention Basin (281-3F), Aiken, S.C., September 4, 1998.
PB98-964029REB 99-04 PC A07/MF A02

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PB98-964013REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Motor Shops Seepage Basin (716-A), Aiken, SC., June 26, 1998.
PB98-964015REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Unit 20, K-Area Bingham Pump Outage Pit (643-1G), Aiken, SC., March 23, 1998.
PB98-964005REB 99-02 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Units 41, 42, 52, and 54, Aiken, SC., September 14, 1998.
PB98-964028REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Shuron Inc. Site, Barnwell, SC., September 9, 1998.
PB98-964021REB 99-03 PC A14/MF A03

Superfund Record of Decision (EPA Region 4): Stauffer Chemical Co. (Tarpon Springs), Operable Unit 1, Tarpon Springs, FL., July 2, 1998.
PB98-964023REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Woolfolk Chemical Works, Inc. (Operable Unit 3), Fort Valley, GA., August 6, 1998.
PB98-964008REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 5): Allied Paper/Portage Creek/Kalamazoo River, Operable Unit 3, Kalamazoo, MI., February 10, 1998.
PB98-964110REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): Byron Salvage Yard, Byron, IL., September 24, 1998.
PB98-964103REB 99-04 PC A08/MF A02

Superfund Record of Decision (EPA Region 5): Continental Steel Corp., Kokomo, IN., September 30, 1998.
PB98-964104REB 99-03 PC A13/MF A03

Superfund Record of Decision (EPA Region 5): DuPage County Landfill/Blackwell Forest Preserve, Warrenville, IL., September 30, 1998.
PB98-964105REB 99-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 5): H and K Sales (Belding Warehouse), Belding, MI., November 4, 1997.
PB98-964112REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 5): H. O. D. Landfill, Antioch, IL., September 28m 1998.
PB98-964102REB 99-03 PC A09/MF A02

Superfund Record of Decision (EPA Region 5): Penta Wood Products Inc., Daniel, WI., September 29, 1998.
PB98-964107REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 5): Petoskey Municipal Well Field Petoskey, MI., September 30, 1998.
PB98-964106REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 5): Spartan Chemical Co., Wyoming, MI., April 9, 1998.
PB98-964113REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): Spickler Landfill, Operable Unit 2, Spencer, WI., September 29, 1998.
PB98-964108REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 5): Wright-Patterson AFB (41 IRP Sites), Dayton, OH., September 30, 1998.
PB98-964111REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 6): Lincoln Creosote Site, Bossier City, LA., November 26, 1997.
PB98-964201REB 99-02 PC A04/MF A01

Superfund Record of Decision (EPA Region 6): Longhorn Army Ammunition Plant, group 1 Sites, Karnack, TX., January 23, 1998.
PB98-964202REB 99-04 PC A11/MF A03

Superfund Record of Decision (EPA Region 6): Madisonville Creosote Works, Inc., Madisonville, LA., August 25, 1998.
PB98-964203REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 6): Rinchem Co., Inc., Albuquerque, NM., September 30, 1998.
PB98-964204REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 7): 57th and North Broadway Streets, Wichita, KS., June 5, 1998.
PB98-964307REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 7): Bruno Co-Op Association/Associated Properities, Bruno, NE., September 30, 1998.
PB98-964308REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 7): Cornhusker Army Ammunition Plant, Operable Unit 2., Hall County, NE., September 30, 1998.
PB98-964302REB 99-03 PC A03/MF A01

Superfund Record of Decision (EPA Region 7): Iowa Army Ammunition Plant, Operable Unit 1, Middletown, IA., March 4, 1998.
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Superfund Record of Decision (EPA Region 7): Lake City Army Ammunition Plant (NW Lagoon), Independence, MO., September 29, 1998.
PB98-964310REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 7): Pester Refinery Co., El Dorado, KS., September 29, 1998.
PB98-964309REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 7): St. Louis Airport/HHS/Futura Coatings Co., St. Louis County, MO., August 27, 1998.
PB98-964306REB 99-03 PC A12/MF A03

Superfund Record of Decision (EPA Region 7): Weldon Spring Quarry/Plant/Pits (USDOE), St. Charles, MO., September 30, 1998.
PB98-964303REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 8): Anaconda Company Smelter (ARWW&S) Operable Unit, Anaconda, MT., September 29, 1998.
PB98-964406REB 99-03 PC A99/MF E08

Superfund Record of Decision (EPA Region 8): California Gulch, Operable Unit 3, Leadville, Co., May 6, 1998.
PB98-964401REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 8): California Gulch, Operable Unit 4, Leadville, CO., March 31, 1998.
PB98-964402REB 99-03 PC A11/MF A03

Superfund Record of Decision (EPA Region 8): Eagle Mine, Operable Unit 2, Minturn/Redcliff, CO., September 3, 1998.
PB98-964404REB 99-03 PC A03/MF A01

Superfund Record of Decision (EPA Region 8): Hill Air Air Force Base, Operable Unit 1, Ogden, UT., September 29, 1998.
PB98-964408REB 99-03 PC A16/MF A03

Superfund Record of Decision (EPA Region 8): Monticello Mill Tailings (USDOE), Operable Unit 3, Monticello, UT., September 29, 1998.
PB98-964407REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 8): Murray Smelter, Murray City, UT., April 1, 1998.
PB98-964403REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 8): Portland Cement (Kiln Dust No. 2 and No. 3), Salt Lake City, UT., August 17, 1998.
PB98-964409REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 8): Smeltertown Site, Operable Unit 2, Former Koppers Wood Training Site, Salida, CO., June 4, 1998.
PB98-964405REB 99-03 PC A11/MF A03

Superfund Record of Decision (EPA Region 9): Andersen Air Force Base, Operable Unit 3 (Marbo Annex), Yigo, Guam, June 16, 1998.
PB98-964507REB 99-03 PC A12/MF A03

Superfund Record of Decision (EPA Region 9): Barstow Marine Corps Logistics Base, Operable Units 1 and 2, Barstow, CA., April 7, 1998.
PB98-964505REB 99-03 PC A15/MF A03

Superfund Record of Decision (EPA Region 9): Barstow Marine Corps Logistics Base, Operable Units 5 and 6, Barstow, CA., January 12, 1998.
PB98-964506REB 99-03 PC A99/MF A06

Superfund Record of Decision (EPA Region 9): Indian Bend Washington Area, Operable Unit 3, Scottsdale, AZ., September 30, 1998.
PB98-964511REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 9): Mather Air Force Base, Basewide Operable Unit Sites, Sacramento, CA., September 28, 1998.
PB98-964510REB 99-03 PC A19/MF A04

Superfund Record of Decision (EPA Region 9): San Gabriel Valley (Area 4), Puente Valley operable Unit, La Puente, CA., September 30, 1998.
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Superfund Record of Decision (EPA Region 9): Tracy Defense Depot (USArmy) (2 Volumes), Tracy, CA., April 14, 1998.
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Superfund Record of Decision (EPA Region 9): Travis Air Force Base, North, East, and West Industrial Operable Units, Solano County, CA., December 3, 1997.
PB98-964503REB 99-03 PC A15/MF A03

Superfund Record of Decision (EPA Region 9): Treasure Island Naval Station, Hunter's Point Annex (Parcel B), San Francisco, CA., October 9, 1997.
PB98-964501REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 9): Tucson International Airport Area, Operable Unit 3 (AFP 44), Tucson, AZ., September 28, 1998.
PB98-964512REB 99-04 PC A07/MF A02

Superfund Record of Decision (EPA Region 9): Williams Air Force Bae, Operable Unit 5, Chandler, AZ., October 14, 1997.
PB98-964508REB 99-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 9): Yuma Marine Corps Air Station, Operable Unit 2, Yuma, AZ., December 2, 1997.
PB98-964502REB 99-03 PC A10/MF A02

Superfund Record of Decision (EPA Region 10): Eastern Michaud Flats Contamination, Pocatello, ID., June 8, 1998.
PB98-964601REB 99-03 PC A12/MF A03

Superfund Record of Decision (EPA Region 10): Idaho National Engineering Lab (USDOE) (ANL-W), Operable Unit 9-04, Idaho Falls, ID., September 29, 1998.
PB98-964605REB 99-03 PC A11/MF A03

Superfund Record of Decision (EPA Region 10): Idaho National Engineering Lab (USDOE), Operable Unit 8-98, Idaho Falls, ID., September 29, 1998.
PB98-964604REB 99-03 PC A10/MF A02

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PB98-964602REB 99-02 PC A12/MF A03

Superfund Record of Decision (EPA Region 10): Tulalip Landfill, Marysville, WA., September 29, 1998.
PB98-964606REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 10): USArmy Fort Richardson, Operable Unit C, Fort Richardson, AK., September 30, 1998.
PB98-964607REB 99-03 PC A11/MF A03

Superfund Record of Decision (EPA Region 10): USNavy Naval Undersea Warfare Engineering Station, Operable Unit 1, Keyport, WA., September 28, 1998.
PB98-964608REB 99-03 PC A11/MF A03

Superfund Record of Decision (EPA Region 10): Vancouver Water Station No. 1 Contamination, Vancouver, WA., September 11, 1998.
PB98-964603REB 99-03 PC A05/MF A01

Superfund Record of Decison (EPA Region 1): Davisville Naval Construction Battalion Center, Operable Unit 4, North Kingstown, RI., September 30, 1998.
PB98-963705REB 99-03 PC A07/MF A02

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PB98-963706REB 99-03 PC A06/MF A02

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PB99-963302REB 99-03 PC A01/MF A01

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PB99-144628REB 99-03 PC A15/MF A03

Sustainability and Resource Assessment: A Case Study of Soil Resources in the United States.
PB99-112146REB 99-01 PC A06/MF A01

SW-846 Draft Update IV-A Only (Test Methods for Evaluating Solid Waste Physical/Chemical Methods) (on CD-ROM with search and Retrieval Software).
PB99-500803REB 99-02 CD-ROM $50.00

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PB99-153637REB 99-04 PC A08/MF A02

System of Activity-Based Models for Portland, Oregon.
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Targeting Toxics: A Characterization Report. A Tool for Directing Management and Monitoring Actions in the Chesapeake Bay's Tidal Rivers. A Technical Workplan.
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PB99-122202REB 99-02 PC A05/MF A01

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PB99-156671REB 99-04 PC A99/MF E08

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PB99-130023REB 99-02 PC A13/MF A03

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PB99-111502REB 99-02 PC A05/MF A01

Technologies for Upgrading Existing or Designing New Drinking Water Treatment Facilities.
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PB99-105199REB 99-02 PC A09/MF A02

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PB99-127219REB 99-02 PC A03/MF A01

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Three Dimensional Hydrodynamic Model for Stratified Flows in Lakes and Estuaries (HYDRO3D): Theory, User Guidance, and Applications for Superfund and Ecological Risk Assessments.
PB99-169898REB 99-04 PC A12/MF A03

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Total Risk Integrated Methodology: Technical Support Document for the TRIM.FaTE Module.
PB98-145527REB 99-01 PC A17/MF A03

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PB99-500647REB 99-04 CD-ROM $50.00

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Toxic Substances Control Act (TSCA): ASCII or EBCDIC Data July 1999. TSCA Chemical Substances Inventory: Revised Inventory Synonym and Preferred Name File (Raw Data File) (on Magnetic Tape or CD-ROM).
PB99-501959REB 99-04 Mag Tape $454.00

Toxic Substances Control Act (TSCA): ASCII Text Data, February 1999. TSCA Chemcial Substances Inventory: Revised Inventory Synonym and Preferred Name File (Raw Data File) (on Diskette).
PB99-500670REB 99-02 Diskette $161.00

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PB99-111643REB 99-01 PC A04/MF A01

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Unregulated Contaminant Monitoring Regulation Analytical Methods and Quality Control Manual.
PB99-147241REB 99-03 PC A06/MF A01

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PB99-147258REB 99-03 PC A04/MF A01

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PB98-963304REB 99-01 PC A06/MF A01

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Use of Intelligent Computational Techniques for the Estimation and Projection of Air Pollutant Emissions.
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Use of Monitored Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tank Sites.
PB99-963315REB 99-03 PC A04/MF A01

Use of Mono- to Tri-Chlorinated Dibenzodioxin (CDD) and Dibenzofuran (CDF) Congeners/Homologues as Indicators of Tetra- to Octa-CDD/CDF Emissions from Municipal Waste and Waste/Coal Combustion.
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PB99-139552REB 99-03 PC A12/MF A03

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PB99-963317REB 99-03 PC A02/MF A01

Using MM5 Version 2 with Models-3/CMAQ: A User's Guide and Tutorial.
PB99-175424REB 99-04 PC A05/MF A01

Using Reproductuve and Developmental Effects Data in Ecological Risk Assessments for Oviparous Vertebrates Exposed To Contaminants.
PB99-121436REB 99-02 PC A05/MF A01

Using Supplemental Environmental Projects to Facilitate Brownfields Redevelopment.
PB99-151045REB 99-03 PC A02/MF A01

Variability of Heavy Duty Vehicle Operating Mode Frequencies for Prediction of Mobile Emissions.
PB99-146367REB 99-03 PC A03/MF A01

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PB99-119356REB 99-02 PC A06/MF A01

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Visibility Monitoring Guidance.
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Y2K Prepardness at Superfund Sites.
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PB99-963402REB 99-01 PC A11/MF A03

Yampa River Valley Sub-Area Emergency Response Action Plan.
PB99-963403REB 99-01 PC A15/MF A03

Yellow Book: Guide to Environmental Enforcement and Compliance at Federal Facilities.
PB99-152530REB 99-04 PC A17/MF A03

Zenon Environmental, Inc.: ZenoGem (Trade Name) Biological and Ultrafiltration Technology. Innovative Technology Evaluation Report. Superfund Innovative Technology Evaluation.
PB99-155251REB 99-04 PC A07/MF A02

Zeolita un Adsorbente Versatil de Contaminantes del Aire (Zeolite, a Versatile Air Pollutant Adsorber).
PB99-147175REB 99-03 PC A03/MF A01

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, of 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

KEYWORD INDEX

1-3-BUTADIENE
SAB Report: Review of the Health Risk Assessment of 1,3-Butadiene. Review of the Office of Research and Development's Draft Health Risk Assessment of 1,3-Butadiene.
PB99-124406REB 99-02 PC A06/MF A01

1-3-DICHLOROPROPENE
RED Facts: 1,3-Dichloropropene.
PB99-128795REB 99-02 PC A02/MF A01

Reregistration Eligibility Decision (RED): 1,3-Dichloropropene (Includes RED Facts: 1,3-Dichloropropene.).
PB99-129652REB 99-02 PC A10/MF A03

305 (B) PROGRAM
Drinking Water and Ground Water Data Within the 305(b) Program.
PB99-119372REB 99-02 PC A10/MF A03

3DHYDROGEOCHEM COMPUTER MODEL
3DHYDROGEOCHEM: A 3-Dimensional Model of Density-Dependent Subsurface Flow and Thermal Multispecies-Multicomponent HYDROGEOCHEMical Transport.
PB99-150419REB 99-04 PC A09/MF A02

ABATEMENT
Lead in Your Home: A Parent's Reference Guide.
PB99-111148REB 99-01 PC A04/MF A01

ABEL COMPUTER MODEL
ABEL Model: Evaluates Corporations' Claims of Inability to Afford Penalities and Compliance Costs (Version 3.0.16) (on Diskette).
PB99-500357REB 99-01 Diskette $50.00

ABILITY TO PAY
ABEL Model: Evaluates Corporations' Claims of Inability to Afford Penalities and Compliance Costs (Version 3.0.16) (on Diskette).
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INDIPAY Model: Evaluates Individual Taxpayer's Claims of Inability to Afford Penalities and Compliance Costs (Version 1.2.5) (on Diskette).
PB99-500407REB 99-01 Diskette $50.00

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Choosing an Adsorption System for VOC: Carbon, Zeolite, or Polymers. CATC Technical Bulletin.
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RMP*Submit(TradeName), Risk Management Plans Submit Software (on CD-ROM).
PB99-500795REB 99-02 CD-ROM CP D01

ACCOUNTING
Cost Accounting and Budgeting for Improved Wastewater Treatment.
PB99-145534REB 99-03 PC A07/MF A02

ACCOUNTS
Interim Final Guidance on Disbursement of Funds from EPA Special Accounts to CERCLA Potentially Responsible Parties.
PB99-151060REB 99-03 PC A03/MF A01

ACID RAIN
Status of SO2 Scrubbing Technologies.
PB99-171563REB 99-04 PC A03/MF A01

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Compliance Report, 1997. Acid Rain Program.
PB99-122152REB 99-02 PC A05/MF A01

Acid Rain Program Emissions Scorecard 1997. SO2, NOx, Heat Input, and CO2 Emission Trends in the Electric Utility Industry.
PB99-147571REB 99-03 PC A07/MF A02

Appendix B: SO2, NOx, CO2, and Heat Input Data for 1997.
PB99-147589REB 99-04 PC A08/MF A02

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PB99-128373REB 99-02 PC A03/MF A01

ACRYLONITRILE
Ambient Water Quality Criteria for the Protection of Human Health: Acrylonitrile.
PB99-101289REB 99-01 PC A04/MF A01

ACTIVE INGREDIENTS
National Emission Standards for Hazardous Air Pollutants (NESHAP) for Pesticide Active Ingredient Production: Summary of Public Comments and Responses.
PB99-163172REB 99-04 PC A11/MF A03

ACUTE EXPOSURE
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AERMOD MODEL
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AFFORDABILITY
Small System Compliance Technology List for the Stage 1 DBP Rule.
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AFTERBURNERS
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AIR QUALITY

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ALASKA

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ASPHALTS
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BASE CATALYZED DECOMPOSITION PROCESS (BCDP)
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BIOLOGICAL EFFECTS
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BIOMASS CONVERSION PLANTS
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BIOTRANSFORMATION
Biotransformation of Gasoline-Contaminated Groundwater under Mixed Electron-Acceptor Conditions.
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BITUMEN
Review of Bench-, Pilot-, and Full-Scale Orimulsion (Trade Name) Combustion Tests.
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BLOWING AGENTS
Third-Generation Foam Blowing Agents for Foam Insulation.
PB99-122095REB 99-02 PC A09/MF A02

BOILERS
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Health Risk Assessment/Characterization of the Drinking Water Disinfection Byproduct Bromate.
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Small System Compliance Technology List for the Stage 1 DBP Rule.
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CABINETS
Demonstration of a No-VOC/No-HAP Wood Kitchen Cabinet Coating System.
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CAGE COMPUTER PROGRAM
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CALCIUM
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Analysis of Carbonaceous Aerosols Using the Thermal Optical Transmittance and Thermal Optical Reflectance Methods.
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CARBONYL COMPOUNDS
Hydrocarbon and Carbonyl Ozone Precursors in Mexico City Ambient Air.
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CARCINOGENICITY TESTS
Dichloroacetic Acid: Carcinogenicity Identification Characterization Summary.
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CARCINOGENS
Hazard Identification in Carcinogen Risk Analysis: An Integrative Approach.
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Hazard Identification in Carcinogen Risk Analysis: An Integrative Approach. Part 3. An Application of the Methodology: Formaldehyde in Air.
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CAREFENTRAZONE-ETHYL
Pesticide Fact Sheet: Carfentrazone-ethyl.
PB99-114779REB 99-01 PC A03/MF A01

KEYWORD INDEX

CASE STUDIES

Remediation Case Studies: In situ Soil Treatment Technologies (Soil Vapor Extraction, Thermal Processes). Volume 8.
PB99-106742REB 99-01 PC A14/MF A03

Remediation Case Studies: Groundwater Pump and Treat (Chlorinated Solvents). Volume 9.
PB99-106759REB 99-01 PC A13/MF A03

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Abstracts of Remediation Case Studies. Volume 3.
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CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT)

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Emissions from Street Vendor Cooking Devices (Charcoal Grilling).
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CHEMICAL ANALYSIS

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CHEMICAL SPILLS

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PB99-963402REB 99-01 PC A11/MF A03

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PB99-963403REB 99-01 PC A15/MF A03

CHEMICAL STABILIZATION

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PB99-156770REB 99-04 PC A06/MF A01

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CHESAPEAKE BAY PROGRAM

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CHILDREN

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CHINA

Providing Solutions for a Better Tomorrow: Progress Report on U.S. EPA's Drinking Water Treatment Technology Demonstrations in Ecuador, Mexico and China.
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CHLORAL HYDRATE

Empirically Based Model for Predicting Chlorination and Ozonation By-Products: Trihalomethanes, Haloacetic Acids, Chloral Hydrate, and Bromate.
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CHLORINATED SOLVENTS

Remediation Case Studies: Groundwater Pump and Treat (Chlorinated Solvents). Volume 9.
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CHLORINE

RED Facts: Chlorine Gas.
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CHLORINE DIOXIDE

Health Risk Assessment/Characterization of the Drinking Water Disinfection By-Products Chlorine Dioxide and Chlorite.
PB99-111361REB 99-02 PC A05/MF A01

CHLORITES

Health Risk Assessment/Characterization of the Drinking Water Disinfection By-Products Chlorine Dioxide and Chlorite.
PB99-111361REB 99-02 PC A05/MF A01

CHLOROFORM

Health Risk Assessment/Characterization of the Drinking Water Disinfection Byproduct Chloroform.
PB99-111346REB 99-02 PC A05/MF A01

CHLOROHYDROCARBONS

Use of Mono- to Tri-Chlorinated Dibenzodioxin (CDD) and Dibenzofuran (CDF) Congeners/Homologues as Indicators of Tetra- to Octa-CDD/CDF Emissions from Municipal Waste and Waste/Coal Combustion.
PB99-102204REB 99-01 PC A02/MF A01

CHLOROTHALINOL

RED Facts: Chlorothalonil.
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Reregistration Eligibility Decision (RED): DCPA. (Includes RED Facts: DCPA Fact Sheet).
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RED Facts: DCPA.
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CHROMATED COPPER ARSENATE

Synergistic Wood Preservatives for Replacement of CCA.
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CHROMIUM

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Standard Operating Procedures for Conducting Acute and Chronic Aquatic Toxicity Tests with 'Eurytemora affinis', a Calanoid Copepod.
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Removing Impediments to Migratory Fishes in the Chesapeake Bay Watershed. Annual Progress Report 1997-1998.
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FISH POPULATIONS

Removing Impediments to Migratory Fishes in the Chesapeake Bay Watershed. Annual Progress Report 1997-1998.
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FISHES

Guidance for Conducting Fish and Wildlife Consumption Surveys.
PB99-149361REB 99-03 PC A10/MF A02

FISHWAYS

Removing Impediments to Migratory Fishes in the Chesapeake Bay Watershed. Annual Progress Report 1997-1998.
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FIXTURES

Evaluation and Performance Assessment of Innovative Low-VOC Contact Adhesives in Wood Laminating Operations.
PB99-102717REB 99-02 PC A05/MF A01

FLEETS (SHIPS)

Proposed Phase 1 Uniform National Discharge Standards for Vessels of the Armed Forces. Technical Development Document.
PB99-101313REB 99-01 PC A99/MF E08

Technical Development Document for Phase 1 Uniform National Discharge Standards for Vessels of the Armed Forces.
PB99-156671REB 99-04 PC A99/MF E08

FLOOD PLAINS

Forest Compositional Change at the Confluence of Illinois and Mississippi River. Long Term Resource Monitoring Program.
PB99-109332REB 99-01 PC A03/MF A01

Biological Aspects of Hybrid Poplar Cultivation on Floodplains in Western North America: A Review.
PB99-167330REB 99-04 PC A05/MF A01

FLOW RATES

EPA Flow Reference Method Testing and Analysis: Findings Report.
PB99-150286REB 99-04 PC A07/MF A02

EPA Flow Reference Method Testing and Analysis: Findings Report. Appendices.
PB99-150294REB 99-04 PC A99/MF E11

Flow Reference Method Testing and Analysis; Field Test Plan. Texas Utilities Decordova Steam Electric Station.
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EPA Flow Reference Method Testing and Analysis: Data Report. Texas Utilities DeCordova Steam Electric Station. Volume 1. Test Description and Appendix A (Data Distribution Package).
PB99-150401REB 99-04 PC A15/MF A03

FLOWMETERS

Application of the Electromagnetic Borehole Flowmeter.
PB99-100018REB 99-02 PC A05/MF A01

FLUE GASES

NOx Abatement by Fuel-Lean Reburning: Laboratory Combustor and Pilot-Scale Package Boiler Results.
PB99-102162REB 99-01 PC A03/MF A01

Study of Fundamentals of Mercury Speciation in Coal-Fired Boilers under Simulated Post-Combustion Conditions.
PB99-144347REB 99-03 PC A04/MF A01

EPA Flow Reference Method Testing and Analysis: Findings Report.
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EPA Flow Reference Method Testing and Analysis: Findings Report. Appendices.
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Flow Reference Method Testing and Analysis; Wind Tunnel Experimental Results. Volume 1.
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Flow Reference Method Testing and Analysis; Wind Tunnel Experimental Results. Volume 2.
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PB99-150385REB 99-04 PC A14/MF A03

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PB99-150401REB 99-04 PC A15/MF A03

Mercury Speciation in Combustion Systems: Studies with Simulated Flue Gases and Model Fly Ashes.
PB99-163081REB 99-04 PC A03/MF A01

FLUID FLOW

Multiphase Flow of Refrigerant 410a through Short Tube Orifices.
PB99-139040REB 99-03 PC A03/MF A01

FLUORESCENT LAMPS

Fluorescent and High Intensity Discharge Lamp Recycling and Disposal in Illinois.
PB99-123119REB 99-02 PC A05/MF A01

FLUROXYPYR

Pesticide Fact Sheet: Fluroxypyr.
PB99-114746REB 99-01 PC A03/MF A01

FLUSING

Sewer and Tank Sediment Flushing: Case Studies.
PB99-127839REB 99-02 PC A06/MF A01

FLY ASH

Study of Fundamentals of Mercury Speciation in Coal-Fired Boilers under Simulated Post-Combustion Conditions.
PB99-144347REB 99-03 PC A04/MF A01

Mercury Speciation in Combustion Systems: Studies with Simulated Flue Gases and Model Fly Ashes.
PB99-163081REB 99-04 PC A03/MF A01

FOAMS

Third-Generation Foam Blowing Agents for Foam Insulation.
PB99-122095REB 99-02 PC A09/MF A02

FOOD CONSUMPTION

Asian and Pacific Islander Seafood Consumption Study in King County, WA. Exposure Information Obtained through a Community-Centered Approach. Study Results and Education Outreach.
PB99-162422REB 99-04 PC A10/MF A02

FOOD CONTAMINATION

Guidance for Conducting Fish and Wildlife Consumption Surveys.
PB99-149361REB 99-03 PC A10/MF A02

FOOD PREPARATION

Asian and Pacific Islander Seafood Consumption Study in King County, WA. Exposure Information Obtained through a Community-Centered Approach. Study Results and Education Outreach.
PB99-162422REB 99-04 PC A10/MF A02

FOOD PROCESSING INDUSTRIES

EPCRA Section 313 Reporting Guidance for Food Processors.
PB99-156903REB 99-04 PC A09/MF A02

FORECASTING

Use of Intelligent Computational Techniques for the Estimation and Projection of Air Pollutant Emissions.
PB99-126484REB 99-02 PC A02/MF A01

Guideline for Developing an Ozone Forecasting Program.
PB99-168874REB 99-04 PC A06/MF A02

FOREIGN TECHNOLOGY

Status of SO2 Scrubbing Technologies.
PB99-171563REB 99-04 PC A03/MF A01

FORESTRY

Forest Compositional Change at the Confluence of Illinois and Mississippi River. Long Term Resource Monitoring Program.
PB99-109332REB 99-01 PC A03/MF A01

FORESTS

Strategy and Design of the Effectiveness Monitoring Program for the Northwest Forest Plan.
PB99-134686REB 99-03 PC A09/MF A02

Forest Ecosystem Indicators: Monitoring, Assessment, Prediction (FEIMAP).
PB99-148611REB 99-03 PC A07/MF A02

Riparian Forest Buffers: Linking Land and Water. The Chesapeake Bay Riparian Forest Buffer Initiative.
PB99-155418REB 99-04 PC A03/MF A01

FORMALDEHYDE

Ambient Monitoring of Formaldehyde with the Methanalyzer.
PB99-102212REB 99-01 PC A03/MF A01

Description and Testing of the AnalTech Model 9801P Monitor for Formaldehyde in Air.
PB99-118291REB 99-02 PC A06/MF A01

Hazard Identification in Carcinogen Risk Analysis: An Integrative Approach. Part 3. An Application of the Methodology: Formaldehyde in Air.
PB99-139065REB 99-03 PC A16/MF A03

FORMATS

SAB Advisory on the National Drinking Water Contaminant Occurrence Database.
PB99-116410REB 99-01 PC A03/MF A01

FOSSIL-FUEL POWER PLANTS

Study of Fundamentals of Mercury Speciation in Coal-Fired Boilers under Simulated Post-Combustion Conditions.
PB99-144347REB 99-03 PC A04/MF A01

Application of Multifuel Reburn for NOx Control on a 300 MWe Boiler in Ukraine.
PB99-146391REB 99-03 PC A03/MF A01

FOUNDRIES

Iron and Steel Foundaries Manual Emissions Testing of Cupola Baghouse at Waupaca Foundry in Tell City, Indiana. Volume 1 of 2. Report Text and Appendices A and B.
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Iron and Steel Foundries Manual Emissions Testing of Culpola Baghouse at Waupaca Foundry in Tell City, Indiana. Volume 2 of 2. Appendices C-F.
PB99-163461REB 99-04 PC A24/MF A04

FREIGHT TRANSPORTATION

Air Quality Impacts of Intercity Freight. Volume 2. Appendices.
PB99-119620REB 99-01 PC A15/MF A03

FUEL CELLS

Testing of Fuel Cells to Recover Energy from Landfill Gas; Groton Landfill.
PB99-105199REB 99-02 PC A09/MF A02

Electric Power Generation Using a Phosphoric Acid Cell on a Municipal Solid Waste Landfill Gas Stream.
PB99-118333REB 99-02 PC A05/MF A01

FUEL ECONOMY

Emissions and Fuel Economy Effects of Vehicle Exhaust Emission Control Device (Revision).
PB99-103897REB 99-01 PC A05/MF A01

EPA Laboratory Evaluation of PetroMoly HP Motor Oil.
PB99-127359REB 99-02 PC A04/MF A01

FUEL OILS

Physical and Chemical Characterization of Fine Particulate from the Combustion of Residual Fuel Oil.
PB99-121477REB 99-02 PC A03/MF A01

Fine Particle Emissions from Residual Fuel Oil Combustion: Characterization and Mechanisms of Formation.
PB99-163131REB 99-04 PC A04/MF A01

FUEL SUBSTITUTION

Guide to the emissions certification procedures for alternative fuel aftermarket conversions.
DE98005092REB 99-02 PC A05/MF A01

FUELS
Evaluation of Emissions from Combustion of Orimulsion.
PB99-163149REB 99-04 PC A03/MF A01

FUGITIVE DUST
Modeling Fugitive Dust Impacts from Surface Coal Mining Operations: Phase 3. Evaluating Model Performance.
PB99-168817REB 99-04 PC A10/MF A03

FUGITIVE EMISSIONS
Asphalt Roofing Industry Fourier Transform Infrared Spectroscopy Modified Bitumen.
PB99-168866REB 99-04 PC A14/MF A03

FUNDS
Interim Final Guidance on Disbursement of Funds from EPA Special Accounts to CERCLA Potentially Responsible Parties.
PB99-151060REB 99-03 PC A03/MF A01

FUNGAL SPORES
Investigating the Influence of Relative Humidity, Air Velocity and Amplification on the Emission Rates of Fungal Spores.
PB99-171530REB 99-04 PC A02/MF A01

FURNITURE
Demonstration of a No-VOC/No-HAP Wood Kitchen Cabinet Coating System.
PB99-114563REB 99-02 PC A05/MF A01

Application of Pollution Prevention Techniques to Reduce Indoor Air Emissions from Engineered Wood Products.
PB99-118309REB 99-02 PC A10/MF A03

FURNITURE INDUSTRY
Profile of the Wood Furniture and Fixtures Industry. EPA Office of Compliance Sector Notebook Project.
PB99-122889REB 99-02 PC A07/MF A02

Case Study Project: The Use of Low-VOC/HAP Coatings at Wood Furniture Manufacturing Facilities.
PB99-143364REB 99-03 PC A02/MF A01

Pollution Prevention and the Use of Low-VOC/HAP Coatings at Wood Furniture Manufacturing Facilities.
PB99-163156REB 99-04 PC A03/MF A01

GAS CHROMATOGRAPHY
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ADA364012REB 99-04 PC A07/MF A02

Gas Chromatographic Techniques for the Measurement of Isoprene in Air.
PB99-133704REB 99-03 PC A04/MF A01

Use of Pyrolysis/GC/MS to Characterize the Organic Quality of Surface Waters. Special Application to Drinking Water Treatment and the Formation of Disinfection Byproducts.
PB99-139552REB 99-03 PC A12/MF A03

Analysis of Trace-Level Organic Combustion Process Emissions Using Novel Multidimensional Gas Chromatography-Mass Spectrometry Procedures.
PB99-163115REB 99-04 PC A03/MF A01

GAS-PHASE EMISSIONS
Gas-Phase and Particulate Emissions during Application of a Water-Based Cleaner with a Hand-Pump Sprayer.
PB99-171514REB 99-04 PC A02/MF A01

GAS PIPELINES
Destin Dome 56 Unit Development and Production Plan and Right-of-Way Pipeline Application. Draft Environmental Impact Statement. Volume 1: Sections 1-10.
PB99-167397REB 99-04 PC A99/MF A06

Destin Dome 56 Unit Development and Production Plan and Right-of-Way Pipeline Application. Draft Environmental Impact Statement. Volume 2: Figures and Tables.
PB99-167405REB 99-04 PC A11/MF A03

GAS RECOVERY
Testing of Fuel Cells to Recover Energy from Landfill Gas; Groton Landfill.
PB99-105199REB 99-02 PC A09/MF A02

GAS SAMPLING
Environmental Technology Verification Report: Passive Soil Gas Sampler. W. L. Gore and Associates, Inc., GORE-SORBER (Trade Name) Screening Survey.
PB99-137317REB 99-03 PC A05/MF A01

Environmental Technology Verification Report. Soil Gas Sampler. Quadrel Services, Inc. EMFLUX (Trade Name) Soil Gas Investigation System.
PB99-137325REB 99-03 PC A06/MF A01

GAS TURBINES
Small Scale Biomass Fueled Gas Turbine Power Plant.
PB99-126450REB 99-04 PC A02/MF A01

GASES
RED Facts: Chlorine Gas.
PB99-149510REB 99-03 PC A02/MF A01

Reregistration Eligibility Decision (RED): Chlorine Gas. (Includes RED Facts: Chlorine Gas Fact Sheet).
PB99-149528REB 99-03 PC A09/MF A02

GASOLINE
SCOS97 Radiocarbon Experiment.
PB99-105652REB 99-01 PC A03/MF A01

Biotransformation of Gasoline-Contaminated Groundwater under Mixed Electron-Acceptor Conditions.
PB99-139677REB 99-04 PC A08/MF A02

GBU-24
Life-Cycle Impact Assessment Demonstration for the GBU-24.
PB99-102659REB 99-03 PC A06/MF A01

GEOCHEMISTRY
Mineralogical Study of Borehole MW-206 Asarco Smelter Site, Tacoma, Washington.
PB99-112138REB 99-01 PC A14/MF A03

GEOPHYSICAL SURVEYS
Geophysical Techniques to Locate DNAPLs: Profiles of Federally Funded Projects.
PB99-156804REB 99-04 PC A04/MF A01

GIARDIA
Cryptosporidium and 'Giardia' Occurrence Assessment for the Interim Enhanced Surface Water Treatment Rule.
PB99-111338REB 99-02 PC A10/MF A02

GLOBAL ASPECTS
Monitoring evaluation, reporting and verification of climate change mitigation projects.
DE98056102REB 99-04 PC A03/MF A01

GOUND WATER
Remediation Case Studies: Innovative Groundwater Treatment Technologies. Volume 11.
PB99-106775REB 99-01 PC A14/MF A03

GOVERNMENT/INDUSTRY RELATIONS
Pollution Prevention 1997: A Natonal Progress Report. Executive Summary.
PB99-130205REB 99-02 PC A03/MF A01

GOVERNMENT POLICIES
Meeting Summaries from the EPA/ICMA Relocation Stakeholder Forums.
PB98-963203REB 99-01 PC A07/MF A02

Response Actions that Affect Residential or Commercial Structures.
PB98-963243REB 99-01 PC A03/MF A01

Using Supplemental Environmental Projects to Facilitate Brownfields Redevelopment.
PB99-151045REB 99-03 PC A02/MF A01

Inclusion of Contribution Waiver by Private Parties in CERCLA Administrative and Judicial Settlements.
PB99-151052REB 99-03 PC A03/MF A01

EPA Superfund Program Policies and Administration.
PB99-963200REB 99-02 Standing Order

Relocation of Residents Affected by Superfund Sites.
PB99-963212REB 99-01 PC A01/MF A01

Use of Monitored Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tank Sites.
PB99-963315REB 99-03 PC A04/MF A01

GOVERNMENT PROGRAMS
Wastewater Primer.
PB99-111650REB 99-01 PC A03/MF A01

Public Water Supply Loan Program: Low Interest Drinking Water Loan Program.
PB99-137689REB 99-03 PC A03/MF A01

Tribal Environmental and Natural Resource Assistance Handbook.
PB99-150989REB 99-04 PC A08/MF A02

GRANTS
Tribal Set-Aside Program: Final Guidelines. Drinking Water Infrastructure Grants.
PB99-111643REB 99-01 PC A04/MF A01

Drinking Water Infrastructure Grants Tribal Set-Aside Program, EPA Region 10. Final Guidelines.
PB99-171282REB 99-04 PC A03/MF A01

GRAVIMETRIC ANALYSIS
Method 1664, Revision A: n-Hexane Extractable Material (HEM; Oil and Grease) and Silica Gel Treated n-Hexane Extractable Material (SGT-HEM; Non-Polar Material) by Extraction and Gravimetry.
PB99-121949REB 99-03 PC A04/MF A01

GRAZING CONTROL
Electronic (Fenceless) Control of Livestock.
PB99-140014REB 99-03 PC A04/MF A01

GREASES
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PB99-115891REB 99-03 PC A04

GREEN BUILDINGS
Documenting performance metrics in a building life-cycle information system.
DE98059376REB 99-02 PC A02/MF A01

GREENHOUSE GASES
Monitoring, evaluation, reporting, and verification of climate change mitigation projects: Discussion of issues and methodologies and review of existing protocols and guidelines.
DE98052311REB 99-02 PC A10/MF A02

Renewable Technologies and Their Role in Mitigating Greenhouse Gas Warming.
PB99-102139REB 99-01 PC A04/MF A01

Greenhouse Gas (GHG) Mitigation Technology Performance: Activities of the GHG Technology Verification Center.
PB99-115578REB 99-01 PC A03/MF A01

Greenhouse Gas (GHG) Mitigaton and Monitoring Technology Performance: Activities of the GHG Technology Verification Center.
PB99-137440REB 99-03 PC A03/MF A01

GRILLS
Emissions from Street Vendor Cooking Devices (Charcoal Grilling).
PB99-146995REB 99-04 PC A07/MF A02

GROUND WATER
Evaluating Ground Water Plumes Under the Hazard Ranking System.
PB98-963326REB 99-01 PC A02/MF A01

Superfund Record of Decision (EPA Region 7): Weldon Spring Quarry/Plant/Pits (USDOE), St. Charles, MO., September 30, 1998.
PB98-964303REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 7): 57th and North Broadway Streets, Wichita, KS., June 5, 1998.
PB98-964307REB 99-03 PC A06/MF A01

Permeable Reactive Barrier Technologies for Contaminant Remediation.
PB99-105702REB 99-01 PC A07/MF A02

Drinking Water and Ground Water Data Within the 305(b) Program.
PB99-119372REB 99-02 PC A10/MF A03

National Water Quality Inventory. 1996 Report to Congress. Groundwater Chapters.
PB99-119406REB 99-02 PC A06/MF A01

Field Test of Cyclodextrin for Enhanced In-situ Flushing of Multiple-Component Immiscible Organic Liquid Contamination: Project Overview and Intial Results.
PB99-121428REB 99-02 PC A04/MF A01

Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water.
PB99-130023REB 99-02 PC A13/MF A03

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Biotransformation of Gasoline-Contaminated Groundwater under Mixed Electron-Acceptor Conditions.
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Water Quality in the West.
PB99-151342REB 99-03 PC A14/MF A03

Field Applications of In situ Remediation Technologies: Permeable Reactive Barriers.
PB99-156796REB 99-04 PC A07/MF A02

Groundwater Geochemistry of Area 6, Dover Air Force Base, Dover, Delaware.
PB99-162430REB 99-04 PC A20/MF A04

EPA/ITRC-RTDF Permeable Reactive Barrier Short Course. Permeable Reactive Barriers: Application and Deployment.
PB99-164808REB 99-04 PC A12/MF A03

Superfund Groundwater RODS: Implementing Change this Fiscal Year.
PB99-963220REB 99-03 PC A01/MF A01

GROUND-WATER CIRCULATION
Field Applications of 'In situ' Remediation Technologies: Ground-Water Circulation Wells.
PB99-149478REB 99-03 PC A04/MF A01

GROUNDWATER
In-situ Porous Reactive Wall for Treatment of Cr(VI) and Trichloroethylene in Groundwater.
PB99-143281REB 99-03 PC A03/MF A01

Performance Monitoring for Natural Attenuation of Contaminants in Aquifers.
PB99-143315REB 99-03 PC A03/MF A01

GROUNDWATER MOVEMENT
Evaluating Karst Geology Using the Hazard Ranking System.
PB98-963327REB 99-01 PC A01/MF A01

GUAM
Evaluation of the Full-Scale Base Catalyzed Decomposition Process (BCDP) Unit Located in Guam.
PB99-104713REB 99-01 PC A10/MF A03

GUIDANCE
Visibility Monitoring Guidance.
PB99-162463REB 99-04 PC A12/MF A03

GUIDELINES
Unified National Strategy for Animal Feeding Operations (Draft).
PB99-111635REB 99-01 PC A05/MF A01

Guide for Ecological Risk Assessment.
PB99-112310REB 99-01 PC A10/MF A02

Guidelines for Neurotoxicity Risk Assessment.
PB99-112328REB 99-01 PC A06/MF A01

Nomination Guidance: 1999 Beneficial Use of Biosolids Awards Program; for Operating Projects, Technology Development, Research, and Public Acceptance.
PB99-130528REB 99-03 PC A03/MF A01

Guideline for Reporting of Daily Air Quality: Air Quality Index (AQI).
PB99-169237REB 99-04 PC A04/MF A01

GUIDES
Guide to Using EPA's Automated Clearing House for the Drinking Water State Revolving Fund Program.
PB99-119380REB 99-02 PC A04/MF A01

Guidance Manual for the Monitoring and Reporting Requirements of the NPDES Storm Water Multi-Sector General Permit.
PB99-130593REB 99-02 PC A04/MF A01

KEYWORD INDEX

HABITAT IMPROVEMENT

Better Backyard: A Citizen Resource Guide to Beneficial Landscaping and Habitat Restoration in the Chesapeake Bay Watershed.
PB99-133852REB 99-02 PC A05/MF A01

HABITATS

Effects of Habitat Alteration by Estuarine Stressors on Ecological Resources of Pacific Northwest Estuaries. Research Plan.
PB99-147191REB 99-03 PC A14/MF A03

HALOACETIC ACIDS

Empirically Based Model for Predicting Chlorination and Ozonation By-Products: Trihalomethanes, Haloacetic Acids, Chloral Hydrate, and Bromate.
PB99-145526REB 99-03 PC A10/MF A02

HANDBOOKS

Public Notification Handbook: Draft for Comment.
PB99-145773REB 99-03 PC A07/MF A02

Handbook of Tools for Managing Federal Superfund Liability Risks at Brownfields and Other Sites.
PB99-151037REB 99-03 PC A07/MF A02

Advanced Photochemical Oxidation Processes. Handbook.
PB99-151169REB 99-03 PC A07/MF A02

HANSCOM AIR FORCE BASE

Innovations in Site Characterization. Case Study: Hanscom Air Force Base, Operable Unit 1 (Sites 1, 2, and 3).
PB99-101362REB 99-01 PC A05/MF A01

HARBORS

Integrated sediment decontamination for the New York/New Jersey Harbor.
DE98004438REB 99-02 PC A03/MF A01

HAZARD RANKING SYSTEM

Evaluating Ground Water Plumes Under the Hazard Ranking System.
PB98-963326REB 99-01 PC A02/MF A01

Evaluating Karst Geology Using the Hazard Ranking System.
PB98-963327REB 99-01 PC A01/MF A01

HAZARDOUS

Superfund Record of Decision Amendment (EPA Region 4): Whitehouse Oil Pits, Whitehouse, FL., September 24, 1998.
PB98-963119REB 99-03 PC A05/MF A01

HAZARDOUS AIR POLLUTANTS

Demonstration of a No-VOC/No-HAP Wood Kitchen Cabinet Coating System.
PB99-114563REB 99-02 PC A05/MF A01

Locating and Estimating Air Emissions from Sources of Lead and Lead Compounds.
PB99-116477REB 99-01 PC A19/MF A04

SAB Report: Review of the USEPA's Report to Congress on Residual Risk.
PB99-116535REB 99-01 PC A08/MF A02

SAB Advisory: The Clean Air Act Section 812 Prospective Study; Health and Ecological Initial Studies.
PB99-133266REB 99-02 PC A04/MF A01

Pollution Prevention and the Use of Low-VOC/HAP Coatings at Wood Furniture Manufacturing Facilities.
PB99-163156REB 99-04 PC A03/MF A01

Asphalt Roofing Industry Fourier Transform Infrared Spectroscopy Modified Bitumen.
PB99-168866REB 99-04 PC A14/MF A03

HAZARDOUS MATERIALS

Improving the Environmental Safety of Munitions Disposal by OB and OD.
ADA363488REB 99-04 PC A03/MF A01

Field analytical technology verification: The ETV Site Characterization Program.
DE98005924REB 99-02 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 10): Unatilla Army Depot (lagoons), Hermiston, OR., September 30, 1997.
PB97-963161REB 99-02 PC A05/MF A01

Substitution Reactions for the Detoxification of Hazardous Chemicals.
PB98-177876REB 99-02 PC A04/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Brown's Battery Breaking, Shoemakersville, PA., December 19, 1997.
PB98-963101REB 99-03 PC A02/MF A01

Superfund Record of Decision Amendment (EPA Region 3): Gas Light Company, Dover, DE., December 16, 1997.
PB98-963102REB 99-03 PC A04/MF A01

Superfund Record of Decision Amendment (EPA Region 9): J. H. Baxter and Company, Weed CA., March 27, 1998.
PB98-963104REB 99-03 PC A08/MF A02

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Westinghouse Elevator Company Plant, Gettysburg, PA., August 3, 1998.
PB98-963108REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 10): Fort Lewis Logistics Center, Tillicum, WA., September 9, 1998.
PB98-963109REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Osborne Landfill (ROD No. 1), Grove City, PA., August 24, 1998.
PB98-963110REB 99-02 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Osborne Landfill (ROD No. 2), Grove City, PA., August 24, 1998.
PB98-963111REB 99-02 PC A02/MF A01

Superfund Explanation of Significant Diference for the Record of Decision (EPA Region 2): Ramapo Landfill, Ramapo, NY., November 26, 1997.
PB98-963112REB 99-02 PC A02/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Hunterstown Road, Straban Township, PA., August 25, 1998.
PB98-963113REB 99-02 PC A02/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): North Penn Area 1, Souderton, PA., September 24, 1998.
PB98-963114REB 99-03 PC A02/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): CryoChem, Inc., Operable Unit 3 (Contamination Soil), Worman, PA., September 22, 1998.
PB98-963115REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Arrowhead Associates Scovill Corporation, Montross, VA., September 15, 1998.
PB98-963116REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the the Record of Decision (EPA Region 10): Idaho National Engineering Lab (USDOE) Pit 9 (WAG-7), Operable Units 7-10, Idaho Falls, ID., September 1, 1998.
PB98-963117REB 99-03 PC A03/MF A01

Superfund Record of Decision Amendment (EPA Region 4): Geiger (C and M Oil) Site, Rantowles, SC., September 9, 1998.
PB98-963118REB 99-03 PC A07/MF A02

Superfund Record of Decision Amendment (EPA Region 5): Springfield Township Dump, Davisburg, MI., June 10, 1998.
PB98-963120REB 99-03 PC A05/MF A01

Superfund Record of Decision Amendment (EPA Region 5): H. Brown Company, Inc., Grand Rapids, MI., February 25, 1998.
PB98-963121REB 99-03 PC A05/MF A01

Superfund Record of Decision Amendment (EPA Region 5): Ott/Story/Cordova Chemical Co., Dalton Township, MI., February 26, 1998.
PB98-963122REB 99-03 PC A06/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 4): Wrigley Charcoal Plant, Wrigley, TN., October 20, 1997.
PB98-963123REB 99-03 PC A02/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Burlington Northern (Somers Plant), Somers, MT., July 21, 1998.
PB98-963124REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Silver Bow Creek/Butte Area Silver Bow and Deer Lodge, MT., August 31, 1998.
PB98-963125REB 99-03 PC A04/MF A01

Superfund Record of Decision Amendment (EPA Region 1): Tibbetts Road, Barrington, NH., September 28, 1998.
PB98-963126REB 99-03 PC A10/MF A02

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Beacon Heights Landfill, Beacon Falls, CT., September 9, 1998.
PB98-963127REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Iron Horse Park, Operable Unit 1, Boston/Marine Wastewater Lagoons, Billerica, MA., October 1, 1997.
PB98-963128REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Loring Air Force Base, Operable Unit 2, Limestone, Maine, September 30, 1998.
PB98-963129REB 99-04 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Davisville Naval Construction Battalion Center, North Kingston, RI., September 30, 1998.
PB98-963130REB 99-03 PC A02/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): Cosden Chemical Coatings Corp., Beverly, NJ., September 24, 1998.
PB98-963131REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): Reich Farms, Pleasant Plains, NJ., May 26, 1998.
PB98-963132REB 99-03 PC A03/MF A01

Superfund Record of Decision (EPA Region 2) Carroll and Dubies Sewage Disposal, Port Jervis, NY., August 24, 1998.
PB98-963133REB 99-03 PC A02/MF A01

Superfund Record of Decision Amendment (EPA Region 3): NCR Corporation (Millsboro Plant), Millsboro, DE., September 29, 1998.
PB98-963134REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): North Penn Area 1 Site, Souderton, PA., October 29, 1997.
PB98-963135REB 99-03 PC A02/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Whitmoyer Laboratories, Jackson Township, PA., May 12, 1998.
PB98-963136REB 99-03 PC A03/MF A01

Superfund Record of Decision Amendment (EPA Region 4): Hercules 009 Landfill, Brunswick, GA., August 14, 1998.
PB98-963137REB 99-03 PC A02/MF A01

Superfund Record of Decision Amendment (EPA Region 4): Cedartown Municipal Landfill, Cedartown, GA., May 11, 1998.
PB98-963138REB 99-03 PC A04/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Tri-County Landfill/Waste Management Illinois, South Elgin, IL., April 23, 1998.
PB98-963139REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Galen Myers Dump/Drum Salvage, Osceola, IN., September 30, 1998.
PB98-963140REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Kohler company Landfill, Kohler, WI., September 29, 1998.
PB98-963141REB 99-03 PC A02/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Refuse Hideaway Landfill, Middleton, WI., September 30, 1998.
PB98-963142REB 99-03 PC A03/MF A01

Superfund Record of Decision Amendment (EPA Region 5): Woodstock Municipal LF, Woodstock, IL., July 15, 1998.
PB98-963143REB 99-03 PC A07/MF A02

Superfund Record of Decision Amendment (EPA Region 5): Allied Chemical and Ironton Coke, Ironton, OH., September 30, 1998.
PB98-963144REB 99-03 PC A03/MF A01

Superfund Record of Decision Amendment (EPA Region 5): Moss-American (Kerr-McGee Oil Co.), Milwaukee, WI., September 30, 1998.
PB98-963145REB 99-03 PC A06/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 6): Vertac, Inc., Jacksonville, AR., January 12, 1998.
PB98-963146REB 99-03 PC A05/MF A01

Superfund Record of Decision Amendment (EPA Region 6): Petro-Chemical Systems (Turtle Bayou), Liberty County, TX., April 30, 1998.
PB98-963147REB 99-03 PC A07/MF A02

Superfund Record of Decision Amendment (EPA Region 6): Texarkana Wood Preserving Co., Texarkana, TX., March 13, 1998.
PB98-963148REB 99-03 PC A06/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Petrochem Recycling Corp./Ekotek Plant, Salt Lake City, UT., December 9, 1997.
PB98-963149REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Lowry Landfill, Aurora, CO., October 24, 1997.
PB98-963150REB 99-03 PC A13/MF A03

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Stringfellow Acid Pits, Riverside, CA., July 9, 1998.
PB98-963151REB 99-03 PC A02/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Lorentz Barrel and Drum Co., San Jose, CA., April 24, 1998.
PB98-963152REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 7): Pester Refinery Co., El Dorado, KS., September 29, 1998.
PB98-963153REB 99-03 PC A03/MF A01

Superfund Record of Decision Amendment (EPA Region 10): Eielson Air Force Base, North Star Borough, AK., September 29, 1998.
PB98-963154REB 99-03 PC A03/MF A01

Superfund Record of Decision Amendment (EPA Region 10): USAF Eielson Air Force Base, Operable Units 3, 4, and 5, Fairbanks North Star Borough, AK., September 29, 1998.
PB98-963155REB 99-03 PC A04/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Waite Park Wells, Waite Park, MN., August 11, 1998.
PB98-963156REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Reilly Tar and Chemical (Indianapolis Plant), Indianapolis, IN., October 6, 1997.
PB98-963157REB 99-03 PC A03/MF A01

Evaluating Karst Geology Using the Hazard Ranking System.
PB98-963327REB 99-01 PC A01/MF A01

Superfund Record of Decision (EPA Region 1): New London Submarine Base, Defense Reutilization Marketing Office (Contaminated Soil and Groundwater) Groton, CT., March 31, 1998.
PB98-963702REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 1): New London Submarine Base, Soil and Sediment Area A Down-

stream Water Courses/Overbank Disposal Area, Groton, CT., March 31, 1998.
PB98-963703REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 1): Brunswick Naval Air Station - No Further ACtion at Sites 4 (Acid/Caustic Pit), 11 (Fire Training Area), 13 (Defense Reutilization and Marketing Office Area) and a Remedial Action for the Eastern Plume, Brunswick, ME., February 10, 1998.
PB98-963704REB 99-02 PC A08/MF A02

Superfund Record of Decison (EPA Region 1): Davisville Naval Construction Battalion Center, Operable Unit 4, North Kingstown, RI., September 30, 1998.
PB98-963705REB 99-03 PC A07/MF A02

Superfund Record of Decison (EPA Region 1): Davisville Naval Construction Battalion Center, Operable Unit 5, North Kingstown, RI., June 30, 1998.
PB98-963706REB 99-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 1): Fletcher's Paint Works and Storage, Milford, NH., September 30, 1998.
PB98-963707REB 99-03 PC A19/MF A04

Superfund Record of Decision (EPA Region 1): Loring Air Force Base, Operable Units 3, 5, 10, and 11, Limestone, ME., August 21, 1998.
PB98-963708REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 1): New Bedford Site, Upper and Lower Harbor Operable Units, New Bedford, MA., September 25, 1998.
PB98-963709REB 99-03 PC A16/MF A03

Superfund Record of Decision (EPA Region 1): Burgess Brothers Landfill, Woodford, VT., September 25, 1998.
PB98-963710REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 1): New London Submarine Base, Source Control Operable Unit 10, New London, CT., June 26, 1998.
PB98-963711REB 99-03 PC A03/MF A01

Superfund Record of Decision (EPA Region 1): Brunswick Naval Air Station Site 2: Orion Street LF (South), Brunswick, ME., September 29, 1998.
PB98-963712REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 1): Pine Street Canal, Burlington, VT., September 29, 1998.
PB98-963713REB 99-03 PC A15/MF A03

Superfund Record of Decision (EPA Region 1): Bennington Municipal Sanitary Landfill, Bennington, VT., September 29, 1998.
PB98-963714REB 99-03 PC A09/MF A02

Superfund Record of Decision (EPA Region 1): Otis Air National Guard (USAF), Operable Unit 3, Falmouth, MA., September 30, 1998.
PB98-963715REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 1): Otis Air National Guard (USAF), Operable Unit 5, Falmouth, MA., September 30, 1998.
PB98-963716REB 99-03 PC A15/MF A03

Superfund Record of Decision (EPA Region 1): New Hampshire Plating Company, Merrimack, NH., September 28, 1998.
PB98-963717REB 99-03 PC A13/MF A03

Superfund Record of Decision (EPA Region 2): Rosen Brothers Scrap Yard/Dump, Cortland, NY., March 23, 1998.
PB98-963802REB 99-02 PC A15/MF A03

Superfund Record of Decision (EPA Region 2): Plattsburgh Air Force Base, SS-005, Operable Unit 12, Plattsburgh, NY., April 2, 1998.
PB98-963803REB 99-02 PC A05/MF A01

Superfund Record of Decision (EPA Region 2): Plattsburgh Air Force Base, SS-006, Operable Unit 13, Plattsburgh, NY., April 2, 1998.
PB98-963804REB 99-02 PC A05/MF A01

Superfund Record of Decision (EPA Region 2): Asbestos Dump, Operable Unit 3, Millington, NJ., September 8, 1998.
PB98-963805REB 99-03 PC A09/MF A02

Superfund Record of Decision (EPA Region 2): Sayreville Landfill, Operable Unit 2, Sayreville, NJ., September 23, 1998.
PB98-963806REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 2): Goldisc Recordings, Inc., Operable Unit 2, Holbrook, NY., September 30, 1998.
PB98-963807REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 2): York Oil Co., Operable Unit 2, Moira, NY., September 29, 1998.
PB98-963808REB 99-03 PC A12/MF A03

Superfund Record of Decision (EPA Region 2): Chemsol, Inc., Piscataway, NJ., September 18, 1998.
PB98-963809REB 99-03 PC A99/MF E08

Superfund Record of Decision (EPA Region 2): Naval Weapons Station Earle (Site A), Operable Unit 3, Colts Neck, NJ., September 29, 1998.
PB98-963810REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 2): Burnt Fly Bog, Marlboro Township, NJ., September 30, 1998.
PB98-963811REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 2): DuPont Necco Park Site, Operable Unit 1, Niagara County, NY., September 18, 1998.
PB98-963812REB 99-03 PC A18/MF A04

Superfund Record of Decision (EPA Region 3): Malvern TCE, Malvern, PA., November 26, 1997.
PB98-963903REB 99-03 PC A10/MF A02

Superfund Record of Decision (EPA Region 3): Metal Banks, Philadelphia, PA., December 31, 1997.
PB98-963904REB 99-02 PC A09/MF A02

Superfund Record of Decision (EPA Region 3): MW Manufacturing Operable Unit 5, Valley Township, PA., December 22, 1997.
PB98-963905REB 99-02 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Halby Chemical Co., Operable Unit 2, New Castle, DE., March 31, 1998.
PB98-963906REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 3): Ohio River Park Site, Operable Unit 3, Neville Island, PA., September 17, 1998.
PB98-963907REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 3): Metropolitan Mirror and Glass, Frackville, PA., September 30, 1998.
PB98-963908REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 3): Langley AFB/NASA Langley Center, Tabbs Creek Operable Unit, Hampton, VA., September 30, 1998.
PB98-963909REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Langley AFB/NASA Langley Center, Area E, Warehouse Operable Unit, Hampton, VA., September 28, 1998.
PB98-963910REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 3): Letterkenny Army Depot (PDO and SE Areas), Chambersburg, Franklin County, PA., September 30, 1998.
PB98-963911REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 9 (Disposal Burn Area), Dahlgren, VA., September 30, 1998.
PB98-963912REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 17 (1400 Area Lanfill), Dahlgren, VA., September 30, 1998.
PB98-963913REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Norfolk Naval Base, Operable Unit 2, CD Landfill Site 6, Norfolk, VA., September 30, 1998.
PB98-963914REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 3): Fischer and Porter Company, Operable Unit 2, Warminster, PA., September 28, 1998.
PB98-963915REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Dover Air Force Base, WP 21 and IWBs Areas, Dover, DE., May 1, 1998.
PB98-963916REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Allegany Ballistics Laboratory (USNavy) Site 10, Mineral, WV., June 30, 1998.
PB98-963917REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): US Navy Ships Parts Control Center Site 1: Carter Road Landfill, Mechanicsburg, PA., September 30, 1998.
PB98-963918REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 3): Naval Weapons Station-Yorktown, Operable Units 6 and 7, Yorktown, VA., March 23, 1998.
PB98-963919REB 99-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 4): Camp Lejeune Military Reservation (USNavy) Operable Unit 11, Site 7 and 80, Onslow County, NC., January 20, 1998.
PB98-964003REB 99-02 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Milan Army Ammunition Plant, Milan, TN., March 11, 1998.
PB98-964004REB 99-02 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Unit 20, K-Area Bingham Pump Outage Pit (643-1G), Aiken, SC., March 23, 1998.
PB98-964005REB 99-02 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Jacksonville Naval Air Station, Operable Unit 1, Jacksonville, FL., August 3, 1998.
PB98-964006REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Homestead Air Force Base, Operable Unit 2, Homestead, FL., July 16, 1998.
PB98-964007REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Woolfolk Chemical Works, Inc. (Operable Unit 3), Fort Valley, GA., August 6, 1998.
PB98-964008REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Davis Park Road TCE, Gastonia, NC., September 29, 1998.
PB98-964009REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 5, Jacksonville, FL., August 4, 1998.
PB98-964010REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 6, Jacksonville, FL., August 27, 1998.
PB98-964011REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 8, Jacksonville, FL., August 27, 1998.
PB98-964012REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Fire Department Hose Training Facility, Aiken, SC., August 4, 1998.
PB98-964013REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Agriculture and Nutrition (Montgomery), Operable Unit 2, Montgomery, AL., September 28, 1998.
PB98-964014REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Motor Shops Seepage Basin (716-A), Aiken, SC., June 26, 1998.
PB98-964015REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 1, FL., September 25, 1998.
PB98-964016REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 14, Pensacola, FL., September 25, 1998.
PB98-964017REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 17, Pensacola, FL., September 25, 1998.
PB98-964018REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 5, Albany, GA., February 11, 1998.
PB98-964019REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Flanders Filters, Inc., Site, Washington, NC., September 18, 1998.
PB98-964020REB 99-03 PC A09/MF A02

Superfund Record of Decision (EPA Region 4): Shuron Inc. Site, Barnwell, SC., September 9, 1998.
PB98-964021REB 99-03 PC A14/MF A03

Superfund Record of Decision (EPA Region 4): Koppers Co., Inc. (Charleston Plant), Charleston, SC., April 29, 1998.
PB98-964022REB 99-03 PC A16/MF A03

Superfund Record of Decision (EPA Region 4): Stauffer Chemical Co. (Tarpon Springs), Operable Unit 1, Tarpon Springs, FL., July 2, 1998.
PB98-964023REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Calhoun Park Area, Charleston, SC., September 30, 1998.
PB98-964024REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE) Operable Unit 5, Paducah, KY., August 10, 1998.
PB98-964025REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE), Operable Unit 15, Paducah, KY., August 10, 1998.
PB98-964026REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) D-Area Oil Seepage Basin (631-G), Aiken, SC., August 14, 1998.
PB98-964027REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), F-Area Retention Basin (281-3F), Aiken, S.C., September 4, 1998.
PB98-964029REB 99-04 PC A07/MF A02

Superfund Record of Decision (EPA Region 5): H. O. D. Landfill, Antioch, IL., September 28m 1998.
PB98-964102REB 99-03 PC A09/MF A02

Superfund Record of Decision (EPA Region 5): Byron Salvage Yard, Byron, IL., September 24, 1998.
PB98-964103REB 99-04 PC A08/MF A02

Superfund Record of Decision (EPA Region 5): Continental Steel Corp., Kokomo, IN., September 30, 1998.
PB98-964104REB 99-03 PC A13/MF A03

Superfund Record of Decision (EPA Region 5): DuPage County Landfill/Blackwell Forest Preserve, Warrenville, IL., September 30, 1998.
PB98-964105REB 99-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 5): Petoskey Municipal Well Field Petoskey, MI., September 30, 1998.
PB98-964106REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 5): Penta Wood Products Inc., Daniel, WI., September 29, 1998.
PB98-964107REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 5): Spickler Landfill, Operable Unit 2, Spencer, WI., September 29, 1998.
PB98-964108REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 5): Allied Paper/Portage Creek/Kalamazoo River, Operable Unit 3, Kalamazoo, MI., February 10, 1998.
PB98-964110REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): Wright-Patterson AFB (41 IRP Sites), Dayton, OH., September 30, 1998.
PB98-964111REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 5): H and K Sales (Belding Warehouse), Belding, MI., November 4, 1997.
PB98-964112REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 5): Spartan Chemical Co., Wyoming, MI., April 9, 1998.
PB98-964113REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 6): Lincoln Creosote Site, Bossier City, LA., November 26, 1997.
PB98-964201REB 99-02 PC A04/MF A01

Superfund Record of Decision (EPA Region 6): Longhorn Army Ammunition Plant, group 1 Sites, Karnack, TX., January 23, 1998.
PB98-964202REB 99-04 PC A11/MF A03

Superfund Record of Decision (EPA Region 6): Madisonville Creosote Works, Inc., Madisonville, LA., August 25, 1998.
PB98-964203REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 6): Rinchem Co., Inc., Albuquerque, NM., September 30, 1998.
PB98-964204REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 7): Cornhusker Army Ammunition Plant, Operable Unit 2., Hall County, NE., September 30, 1998.
PB98-964302REB 99-03 PC A03/MF A01

Superfund Record of Decision (EPA Region 7): Weldon Spring Quarry/Plant/Pits (USDOE), St. Charles, MO., September 30, 1998.
PB98-964303REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 7): Iowa Army Ammunition Plant, Operable Unit 1, Middletown, IA., September 29, 1998.
PB98-964304REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 7): Iowa Army Ammunition Plant, Operable Unit 1, Middletown, IA., March 4, 1998.
PB98-964305REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 7): St. Louis Airport/HHS/Futura Coatings Co., St. Louis County, MO., August 27, 1998.
PB98-964306REB 99-03 PC A12/MF A03

Superfund Record of Decision (EPA Region 7): 57th and North Broadway Streets, Wichita, KS., June 5, 1998.
PB98-964307REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 7): Bruno Co-Op Association/Associated Properties, Bruno, NE., September 30, 1998.
PB98-964308REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 7): Lake City Army Ammunition Plant (NW Lagoon), Independence, MO., September 29, 1998.
PB98-964310REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 8): California Gulch, Operable Unit 3, Leadville, Co., May 6, 1998.
PB98-964401REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 8): California Gulch, Operable Unit 4, Leadville, CO., March 31, 1998.
PB98-964402REB 99-03 PC A11/MF A03

Superfund Record of Decision (EPA Region 8): Murray Smelter, Murray City, UT., April 1, 1998.
PB98-964403REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 8): Eagle Mine, Operable Unit 2, Minturn/Redcliff, CO., September 3, 1998.
PB98-964404REB 99-03 PC A03/MF A01

Superfund Record of Decision (EPA Region 8): Smeltertown Site, Operable Unit 2, Former Koppers Wood Training Site, Salida, CO., June 4, 1998.
PB98-964405REB 99-03 PC A11/MF A03

Superfund Record of Decision (EPA Region 8): Anaconda Company Smelter (ARWW&S) Operable Unit, Anaconda, MT., September 29, 1998.
PB98-964406REB 99-03 PC A99/MF E08

Superfund Record of Decision (EPA Region 8): Monticello Mill Tailings (USDOE), Operable Unit 3, Monticello, UT., September 29, 1998.
PB98-964407REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 8): Hill Air Force Base, Operable Unit 1, Ogden, UT., September 29, 1998.
PB98-964408REB 99-03 PC A16/MF A03

Superfund Record of Decision (EPA Region 8): Portland Cement (Kiln Dust No. 2 and No. 3), Salt Lake City, UT., August 17, 1998.
PB98-964409REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 9): Treasure Island Naval Station, Hunter's Point Annex (Parcel B), San Francisco, CA., October 9, 1997.
PB98-964501REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 9): Yuma Marine Corps Air Station, Operable Unit 2, Yuma, AZ., December 2, 1997.
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RED Facts: Dichlobenil.
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Reregistration Eligibility Decision (RED): Triclopyr. (Includes RED Facts: Triclopyr Fact Sheet).
PB99-112062REB 99-01 PC A15/MF A03

Reregistration Eligibility Decision (RED): Propachlor. (Includes RED Facts: Propachlor Fact Sheet).
PB99-113870REB 99-01 PC A13/MF A03

RED Facts: Propachlor.
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RED Facts: Triclopyr.
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Pesticide Fact Sheet: Maple Lactone.
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Pesticide Fact Sheet: Isoxaflutole.
PB99-114738REB 99-01 PC A03/MF A01

Pesticide Fact Sheet: Fluroxypyr.
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PB99-114761REB 99-01 PC A02/MF A01

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PB99-114779REB 99-01 PC A03/MF A01

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PB99-114795REB 99-01 PC A02/MF A01

Pesticide Fact Sheet: Iron (Ferric) Phosphate.
PB99-114803REB 99-01 PC A02/MF A01

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PB99-119570REB 99-02 PC A15/MF A03

Reregistration Eligibility Decision (RED): Dicofol. (Includes RED Facts: Dicofol Fact Sheet).
PB99-119588REB 99-02 PC A14/MF A03

RED Facts: Hydramethylnon.
PB99-121204REB 99-02 PC A02/MF A01

Reregistration Eligibility Decision (RED): Hydramethylnon. (Includes RED Facts: Hydramethylnon Fact Sheet).
PB99-121287REB 99-02 PC A09/MF A02

Reregistration Eligibility Decision (RED): DEET. (Includes RED Facts: DEET Fact Sheet).
PB99-123143REB 99-02 PC A08/MF A02

Reregistration Eligibility Decision (RED): AL and MG Phosphide. (Includes RED Facts: Aluminum and Magnesium Phosphide Fact Sheet).
PB99-123150REB 99-02 PC A11/MF A03

Reregistration Eligibility Decision (RED): DCPA. (Includes RED Facts: DCPA Fact Sheet).
PB99-123168REB 99-02 PC A12/MF A03

RED Facts: Bromoxynil.
PB99-123499REB 99-02 PC A02/MF A01

RED Facts: Aluminum and Magnesium Phosphide.
PB99-123507REB 99-02 PC A03/MF A01

RED Facts: Alachlor.
PB99-123515REB 99-02 PC A03/MF A01

RED Facts: DCPA.
PB99-123523REB 99-02 PC A03/MF A01

RED Facts: Iprodione.
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PB99-127912REB 99-03 PC A05/MF A01

Reregistration Eligibility Decision (RED): Methomyl. (Includes RED Facts: Methomyl Fact Sheet).
PB99-128696REB 99-02 PC A14/MF A03

RED Facts: Thiodicarb.
PB99-128779REB 99-02 PC A03/MF A01

RED Facts: Methomyl.
PB99-128787REB 99-02 PC A02/MF A01

RED Facts: 1,3-Dichloropropene.
PB99-128795REB 99-02 PC A02/MF A01

RED Facts: Deet.
PB99-128803REB 99-02 PC A02/MF A01

RED Facts: Methylisothiazolinone.
PB99-128811REB 99-02 PC A02/MF A01

Reregistration Eligibility Decision (RED): Bromoxynil. (Includes RED Facts: Bromoxynil Fact Sheet).
PB99-128829REB 99-02 PC A15/MF A03

Reregistration Eligibility Decision (RED): Methylisothiazolinone (Includes RED Facts: Methylisothiazolinone.).
PB99-129637REB 99-02 PC A09/MF A02

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PB99-135006REB 99-03 PC A05/MF A01

RED Facts: Virelure.
PB99-149486REB 99-03 PC A02/MF A01

Reregistration Eligibility Decision (RED): Virelure ((Z)-11-hexadecenal). (Includes RED Facts: Virelure Fact Sheet).
PB99-149494REB 99-03 PC A05/MF A01

RED Facts: Chlorine Gas.
PB99-149510REB 99-03 PC A02/MF A01

Reregistration Eligibility Decision (RED): Chlorine Gas. (Includes RED Facts: Chlorine Gas Fact Sheet).
PB99-149528REB 99-03 PC A09/MF A02

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PB99-150922REB 99-03 PC A06/MF A01

RED Facts: Chlorothalonil.
PB99-157794REB 99-04 PC A03/MF A01

Reregistration Eligibility Decision (RED): Chlorothalonil. (Includes RED Facts: Chlorothalonil Fact Sheet).
PB99-157802REB 99-04 PC A17/MF A03

Pesticide Fact Sheet: 3-(N-Butyl-N- acetyl)-Aminopropionic acid, ethyl ester (IR3535).
PB99-158818REB 99-04 PC A02/MF A01

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PB99-132938REB 99-02 PC A03/MF A01

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PB99-132961REB 99-02 PC A14/MF A03

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PB99-134249REB 99-03 PC A06/MF A01

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PB99-149049REB 99-03 PC A13/MF A03

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PB99-122749REB 99-02 PC A09/MF A02

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Local and Regional Contributions of Fine Particulate Mass to Urban Areas in the Mid-Atlantic and Southwestern U.S.
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PB99-132060REB 99-03 PC A10/MF A03

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PB99-151169REB 99-03 PC A07/MF A02

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PB99-131989REB 99-03 PC A04/MF A01

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R-236FA
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PB98-964002REB 99-03 PC A04/MF A01

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Superfund Record of Decision (EPA Region 7): St. Louis Airport/HHS/Futura Coatings Co., St. Louis County, MO., August 27, 1998.
PB98-964306REB 99-03 PC A12/MF A03

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PB98-964002REB 99-03 PC A04/MF A01

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PB98-964023REB 99-03 PC A06/MF A01

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PB98-964028REB 99-03 PC A04/MF A01

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PB98-964306REB 99-03 PC A12/MF A03

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PB98-964604REB 99-03 PC A10/MF A02

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PB98-963702REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 1): New London Submarine Base, Soil and Sediment Area A Downstream Water Courses/Overbank Disposal Area, Groton, CT., March 31, 1998.
PB98-963703REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 1): Brunswick Naval Air Station - No Further ACtion at Sites 4 (Acid/Caustic Pit), 11 (Fire Training Area), 13 (Defense Reutilization and Marketing Office Area) and a Remedial Action for the Eastern Plume, Brunswick, ME., February 10, 1998.
PB98-963704REB 99-02 PC A08/MF A02

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PB98-963705REB 99-03 PC A07/MF A02

Superfund Record of Decison (EPA Region 1): Davisville Naval Construction Battalion Center, Operable Unit 5, North Kingstown, RI., June 30, 1998.
PB98-963706REB 99-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 1): Fletcher's Paint Works and Storage, Milford, NH., September 30, 1998.
PB98-963707REB 99-03 PC A19/MF A04

Superfund Record of Decision (EPA Region 1): Loring Air Force Base, Operable Units 3, 5, 10, and 11, Limestone, ME., August 21, 1998.
PB98-963708REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 1): New Bedford Site, Upper and Lower Harbor Operable Units, New Bedford, MA., September 25, 1998.
PB98-963709REB 99-03 PC A16/MF A03

Superfund Record of Decision (EPA Region 1): Burgess Brothers Landfill, Woodford, VT., September 25, 1998.
PB98-963710REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 1): New London Submarine Base, Source Control Operable Unit 10, New London, CT., June 26, 1998.
PB98-963711REB 99-03 PC A03/MF A01

Superfund Record of Decision (EPA Region 1): Brunswick Naval Air Station Site 2: Orion Street LF (South), Brunswick, ME., September 29, 1998.
PB98-963712REB 99-03 PC A07/MF A02

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PB98-963713REB 99-03 PC A15/MF A03

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PB98-963714REB 99-03 PC A09/MF A02

Superfund Record of Decision (EPA Region 1): Otis Air National Guard (USAF), Operable Unit 3, Falmouth, MA., September 30, 1998.
PB98-963715REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 1): Otis Air National Guard (USAF), Operable Unit 5, Falmouth, MA., September 30, 1998.
PB98-963716REB 99-03 PC A15/MF A03

Superfund Record of Decision (EPA Region 1): New Hampshire Plating Company, Merrimack, NH., September 28, 1998.
PB98-963717REB 99-03 PC A13/MF A03

Superfund Record of Decision (EPA Region 2): Rosen Brothers Scrap Yard/Dump, Cortland, NY., March 23, 1998.
PB98-963802REB 99-02 PC A15/MF A03

Superfund Record of Decision (EPA Region 2): Plattsburgh Air Force Base, SS-005, Operable Unit 12, Plattsburgh, NY., April 2, 1998.
PB98-963803REB 99-02 PC A05/MF A01

Superfund Record of Decision (EPA Region 2): Plattsburgh Air Force Base, SS-006, Operable Unit 13, Plattsburgh, NY., April 2, 1998.
PB98-963804REB 99-02 PC A05/MF A01

Superfund Record of Decision (EPA Region 2): Asbestos Dump, Operable Unit 3, Millington, NJ., September 8, 1998.
PB98-963805REB 99-03 PC A09/MF A02

Superfund Record of Decision (EPA Region 2): Sayreville Landfill, Operable Unit 2, Sayreville, NJ., September 23, 1998.
PB98-963806REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 2): Goldisc Recordings, Inc., Operable Unit 2, Holbrook, NY., September 30, 1998.
PB98-963807REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 2): York Oil Co., Operable Unit 2, Moira, NY., September 29, 1998.
PB98-963808REB 99-03 PC A12/MF A03

Superfund Record of Decision (EPA Region 2): Chemsol, Inc., Piscataway, NJ., September 18, 1998.
PB98-963809REB 99-03 PC A99/MF E08

Superfund Record of Decision (EPA Region 2): Naval Weapons Station Earle (Site A), Operable Unit 3, Colts Neck, NJ., September 29, 1998.
PB98-963810REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 2): Burnt Fly Bog, Marlboro Township, NJ., September 30, 1998.
PB98-963811REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 2): DuPont Necco Park Site, Operable Unit 1, Niagara County, NY., September 18, 1998.
PB98-963812REB 99-03 PC A18/MF A04

Superfund Record of Decision (EPA Region 3): Malvern TCE, Malvern, PA., November 26, 1997.
PB98-963903REB 99-03 PC A10/MF A02

Superfund Record of Decision (EPA Region 3): Metal Banks, Philadelphia, PA., December 31, 1997.
PB98-963904REB 99-02 PC A09/MF A02

Superfund Record of Decision (EPA Region 3): MW Manufacturing Operable Unit 5, Valley Township, PA., December 22, 1997.
PB98-963905REB 99-02 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Halby Chemical Co., Operable Unit 2, New Castle, DE., March 31, 1998.
PB98-963906REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 3): Ohio River Park Site, Operable Unit 3, Neville Island, PA., September 17, 1998.
PB98-963907REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 3): Metropolitan Mirror and Glass, Frackville, PA., September 30, 1998.
PB98-963908REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 3): Langley AFB/NASA Langley Center, Tabbs Creek Operable Unit, Hampton, VA., September 30, 1998.
PB98-963909REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Langley AFB/NASA Langley Center, Area E, Warehouse Operable Unit, Hampton, VA., September 28, 1998.
PB98-963910REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 3): Letterkenny Army Depot (PDO and SE Areas), Chambersburg, Franklin County, PA., September 30, 1998.
PB98-963911REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 9 (Disposal Burn Area), Dahlgren, VA., September 30, 1998.
PB98-963912REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 17 (1400 Area Lanfill), Dahlgren, VA., September 30, 1998.
PB98-963913REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Norfolk Naval Base, Operable Unit 2, CD Landfill Site 6, Norfolk, VA., September 30, 1998.
PB98-963914REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 3): Fischer and Porter Company, Operable Unit 2, Warminster, PA., September 28, 1998.
PB98-963915REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Dover Air Force Base, WP 21 and IWBs Areas, Dover, DE., May 1, 1998.
PB98-963916REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Allegany Ballistics Laboratory (USNavy) Site 10, Mineral, WV., June 30, 1998.
PB98-963917REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): US Navy Ships Parts Control Center Site 1: Carter Road Landfill, Mechanicsburg, PA., September 30, 1998.
PB98-963918REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 3): Naval Weapons Station-Yorktown, Operable Units 6 and 7, Yorktown, VA., March 23, 1998.
PB98-963919REB 99-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE) Molten Salt Reactor Experiment (MSRE) Facility, Oak Ridge, TN., July 7, 1998.
PB98-964002REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Camp Lejeune Military Reservation (USNavy) Operable Unit 11, Site 7 and 80, Onslow County, NC., January 20, 1998.
PB98-964003REB 99-02 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Milan Army Ammunition Plant, Milan, TN., March 11, 1998.
PB98-964004REB 99-02 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Unit 20, K-Area Bingham Pump Outage Pit (643-1G), Aiken, SC., March 23, 1998.
PB98-964005REB 99-02 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Jacksonville Naval Air Station, Operable Unit 1, Jacksonville, FL., August 3, 1998.
PB98-964006REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Homestead Air Force Base, Operable Unit 2, Homestead, FL., July 16, 1998.
PB98-964007REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Woolfolk Chemical Works, Inc. (Operable Unit 3), Fort Valley, GA., August 6, 1998.
PB98-964008REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Davis Park Road TCE, Gastonia, NC., September 29, 1998.
PB98-964009REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 5, Jacksonville, FL., August 4, 1998.
PB98-964010REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 6, Jacksonville, FL., August 27, 1998.
PB98-964011REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 8, Jacksonville, FL., August 27, 1998.
PB98-964012REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Fire Department Hose Training Facility, Aiken, SC., August 4, 1998.
PB98-964013REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Agriculture and Nutrition (Montgomery), Operable Unit 2, Montgomery, AL., September 28, 1998.
PB98-964014REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 1, FL., September 25, 1998.
PB98-964016REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 14, Pensacola, FL., September 25, 1998.
PB98-964017REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 17, Pensacola, FL., September 25, 1998.
PB98-964018REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 5, Albany, GA., February 11, 1998.
PB98-964019REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Flanders Filters, Inc., Site, Washington, NC., September 18, 1998.
PB98-964020REB 99-03 PC A09/MF A02

Superfund Record of Decision (EPA Region 4): Shuron Inc. Site, Barnwell, SC., September 9, 1998.
PB98-964021REB 99-03 PC A14/MF A03

Superfund Record of Decision (EPA Region 4): Koppers Co., Inc. (Charleston Plant), Charleston, SC., April 29, 1998.
PB98-964022REB 99-03 PC A16/MF A03

Superfund Record of Decision (EPA Region 4): Stauffer Chemical Co. (Tarpon Springs), Operable Unit 1, Tarpon Springs, FL., July 2, 1998.
PB98-964023REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Calhoun Park Area, Charleston, SC., September 30, 1998.
PB98-964024REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE) Operable Unit 5, Paducah, KY., August 10, 1998.
PB98-964025REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE), Operable Unit 15, Paducah, KY., August 10, 1998.
PB98-964026REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) D-Area Oil Seepage Basin (631-G), Aiken, SC., August 14, 1998.
PB98-964027REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Units 41, 42, 52, and 54, Aiken, SC., September 14, 1998.
PB98-964028REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), F-Area Retention Basin (281-3F), Aiken, S.C., September 4, 1998.
PB98-964029REB 99-04 PC A07/MF A02

Superfund Record of Decision (EPA Region 5): H. O. D. Landfill, Antioch, IL., September 28m 1998.
PB98-964102REB 99-03 PC A09/MF A02

Superfund Record of Decision (EPA Region 5): Byron Salvage Yard, Byron, IL., September 24, 1998.
PB98-964103REB 99-04 PC A08/MF A02

Superfund Record of Decision (EPA Region 5): Continental Steel Corp., Kokomo, IN., September 30, 1998.
PB98-964104REB 99-03 PC A13/MF A03

Superfund Record of Decision (EPA Region 5): DuPage County Landfill/Blackwell Forest Preserve, Warrenville, IL., September 30, 1998.
PB98-964105REB 99-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 5): Petoskey Municipal Well Field Petoskey, MI., September 30, 1998.
PB98-964106REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 5): Penta Wood Products Inc., Daniel, WI., September 29, 1998.
PB98-964107REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 5): Spickler Landfill, Operable Unit 2, Spencer, WI., September 29, 1998.
PB98-964108REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 5): Allied Paper/Portage Creek/Kalamazoo River, Operable Unit 3, Kalamazoo, MI., February 10, 1998.
PB98-964110REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): Wright-Patterson AFB (41 IRP Sites), Dayton, OH., September 30, 1998.
PB98-964111REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 5): H and K Sales (Belding Warehouse), Belding, MI., November 4, 1997.
PB98-964112REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 5): Spartan Chemical Co., Wyoming, MI., April 9, 1998.
PB98-964113REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 6): Lincoln Creosote Site, Bossier City, LA., November 26, 1997.
PB98-964201REB 99-02 PC A04/MF A01

Superfund Record of Decision (EPA Region 6): Longhorn Army Ammunition Plant, group 1 Sites, Karnack, TX., January 23, 1998.
PB98-964202REB 99-04 PC A11/MF A03

Superfund Record of Decision (EPA Region 6): Madisonville Creosote Works, Inc., Madisonville, LA., August 25, 1998.
PB98-964203REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 6): Rinchem Co., Inc., Albuquerque, NM., September 30, 1998.
PB98-964204REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 7): Cornhusker Army Ammunition Plant, Operable Unit 2., Hall County, NE., September 30, 1998.
PB98-964302REB 99-03 PC A03/MF A01

Superfund Record of Decision (EPA Region 7): Iowa Army Ammunition Plant, Operable Unit 1, Middletown, IA., September 29, 1998.
PB98-964304REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 7): St. Louis Airport/HHS/Futura Coatings Co., St. Louis County, MO., August 27, 1998.
PB98-964306REB 99-03 PC A12/MF A03

Superfund Record of Decision (EPA Region 7): Bruno Co-Op Association/Associated Properties, Bruno, NE., September 30, 1998.
PB98-964308REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 7): Lake City Army Ammunition Plant (NW Lagoon), Independence, MO., September 29, 1998.
PB98-964310REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 8): California Gulch, Operable Unit 3, Leadville, Co., May 6, 1998.
PB98-964401REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 8): Murray Smelter, Murray City, UT., April 1, 1998.
PB98-964403REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 8): Eagle Mine, Operable Unit 2, Minturn/Redcliff, CO., September 3, 1998.
PB98-964404REB 99-03 PC A03/MF A01

Superfund Record of Decision (EPA Region 8): Smeltertown Site, Operable Unit 2, Former Koppers Wood Training Site, Salida, CO., June 4, 1998.
PB98-964405REB 99-03 PC A11/MF A03

Superfund Record of Decision (EPA Region 8): Monticello Mill Tailings (USDOE), Operable Unit 3, Monticello, UT., September 29, 1998.
PB98-964407REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 8): Portland Cement (Kiln Dust No. 2 and No. 3), Salt Lake City, UT., August 17, 1998.
PB98-964409REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 9): Treasure Island Naval Station, Hunter's Point Annex (Parcel B), San Francisco, CA., October 9, 1997.
PB98-964501REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 9): Yuma Marine Corps Air Station, Operable Unit 2, Yuma, AZ., December 2, 1997.
PB98-964502REB 99-03 PC A10/MF A02

Superfund Record of Decision (EPA Region 9): Tracy Defense Depot (USArmy) (2 Volumes), Tracy, CA., April 14, 1998.
PB98-964504REB 99-03 PC A99/MF A06

Superfund Record of Decision (EPA Region 9): Barstow Marine Corps Logistics Base, Operable Units 1 and 2, Barstow, CA., April 7, 1998.
PB98-964505REB 99-03 PC A15/MF A03

Superfund Record of Decision (EPA Region 9): Barstow Marine Corps Logistics Base, Operable Units 5 and 6, Barstow, CA., January 12, 1998.
PB98-964506REB 99-03 PC A99/MF A06

Superfund Record of Decision (EPA Region 9): Andersen Air Force Base, Operable Unit 3 (Marbo Annex), Yigo, Guam, June 16, 1998.
PB98-964507REB 99-03 PC A12/MF A03

Superfund Record of Decision (EPA Region 9): Williams Air Force Bae, Operable Unit 5, Chandler, AZ., October 14, 1997.
PB98-964508REB 99-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 9): San Gabriel Valley (Area 4), Puente Valley operable Unit, La Puente, CA., September 30, 1998.
PB98-964509REB 99-03 PC A10/MF A03

Superfund Record of Decision (EPA Region 9): Mather Air Force Base, Basewide Operable Unit Sites, Sacramento, CA., September 28, 1998.
PB98-964510REB 99-03 PC A19/MF A04

Superfund Record of Decision (EPA Region 9): Indian Bend Washington Area, Operable Unit 3, Scottsdale, AZ., September 30, 1998.
PB98-964511REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 9): Tucson International Airport Area, Operable Unit 3 (AFP 44), Tucson, AZ., September 28, 1998.
PB98-964512REB 99-04 PC A07/MF A02

Superfund Record of Decision (EPA Region 10): Eastern Michaud Flats Contamination, Pocatello, ID., June 8, 1998.
PB98-964601REB 99-03 PC A12/MF A03

Superfund Record of Decision (EPA Region 10): Idaho National Engineenng Laboratory (USDOE), Operable Unit 2-13, Idaho Falls, ID., December 17, 1997.
PB98-964602REB 99-02 PC A12/MF A03

Superfund Record of Decision (EPA Region 10): Vancouver Water Station No. 1 Contamination, Vancouver, WA., September 11, 1998.
PB98-964603REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 10): Idaho National Engineering Lab (USDOE), Operable Unit 8-98, Idaho Falls, ID., September 29, 1998.
PB98-964604REB 99-03 PC A10/MF A02

Superfund Record of Decision (EPA Region 10): Idaho National Engineering Lab (USDOE) (ANL-W), Operable Unit 9-04, Idaho Falls, ID., September 29, 1998.
PB98-964605REB 99-03 PC A11/MF A03

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Superfund Record of Decision Amendment (EPA Region 9): J. H. Baxter and Company, Weed CA., March 27, 1998.
PB98-963104REB 99-03 PC A08/MF A02

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Westinghouse Elevator Company Plant, Gettysburg, PA., August 3, 1998.
PB98-963108REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 10): Fort Lewis Logistics Center, Tillicum, WA., September 9, 1998.
PB98-963109REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Osborne Landfill (ROD No. 1), Grove City, PA., August 24, 1998.
PB98-963110REB 99-02 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Osborne Landfill (ROD No. 2), Grove City, PA., August 24, 1998.
PB98-963111REB 99-02 PC A02/MF A01

Superfund Explanation of Significant Diference for the Record of Decision (EPA Region 2): Ramapo Landfill, Ramapo, NY., November 26, 1997.
PB98-963112REB 99-02 PC A02/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Hunterstown Road, Straban Township, PA., August 25, 1998.
PB98-963113REB 99-02 PC A02/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): North Penn Area 1, Souderton, PA., September 24, 1998.
PB98-963114REB 99-03 PC A02/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): CryoChem, Inc., Operable Unit 3 (Contamination Soil), Worman, PA., September 22, 1998.
PB98-963115REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Arrowhead Associates Scovill Corporation, Montross, VA., September 15, 1998.
PB98-963116REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the the Record of Decision (EPA Region 10): Idaho National Engineering Lab (USDOE) Pit 9 (WAG-7), Operable Units 7-10, Idaho Falls, ID., September 1, 1998.
PB98-963117REB 99-03 PC A03/MF A01

Superfund Record of Decision Amendment (EPA Region 4): Geiger (C and M Oil) Site, Rantowles, SC., September 9, 1998.
PB98-963118REB 99-03 PC A07/MF A02

Superfund Record of Decision Amendment (EPA Region 4): Whitehouse Oil Pits, Whitehouse, FL., September 24, 1998.
PB98-963119REB 99-03 PC A05/MF A01

Superfund Record of Decision Amendment (EPA Region 5): Springfield Township Dump, Davisburg, MI., June 10, 1998.
PB98-963120REB 99-03 PC A05/MF A01

Superfund Record of Decision Amendment (EPA Region 5): H. Brown Company, Inc., Grand Rapids, MI., February 25, 1998.
PB98-963121REB 99-03 PC A05/MF A01

Superfund Record of Decision Amendment (EPA Region 5): Ott/Story/Cordova Chemical Co., Dalton Township, MI., February 26, 1998.
PB98-963122REB 99-03 PC A06/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 4): Wrigley Charcoal Plant, Wrigley, TN., October 20, 1997.
PB98-963123REB 99-03 PC A02/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Burlington Northern (Somers Plant), Somers, MT., July 21, 1998.
PB98-963124REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Silver Bow Creek/Butte Area Silver Bow and Deer Lodge, MT., August 31, 1998.
PB98-963125REB 99-03 PC A04/MF A01

Superfund Record of Decision Amendment (EPA Region 1): Tibbetts Road, Barrington, NH., September 28, 1998.
PB98-963126REB 99-03 PC A10/MF A02

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Beacon Heights Landfill, Beacon Falls, CT., September 9, 1998.
PB98-963127REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Iron Horse Park, Operable Unit 1, Boston/Marine Wastewater Lagoons, Billerica, MA., October 1, 1997.
PB98-963128REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Loring Air Force Base, Operable Unit 2, Limestone, Maine, September 30, 1998.
PB98-963129REB 99-04 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Davisville Naval Construction Battalion Center, North Kingston, RI., September 30, 1998.
PB98-963130REB 99-03 PC A02/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): Cosden Chemical Coatings Corp., Beverly, NJ., September 24, 1998.
PB98-963131REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): Reich Farms, Pleasant Plains, NJ., May 26, 1998.
PB98-963132REB 99-03 PC A03/MF A01

Superfund Record of Decision (EPA Region 2) Carroll and Dubies Sewage Disposal, Port Jervis, NY., August 24, 1998.
PB98-963133REB 99-03 PC A02/MF A01

Superfund Record of Decision Amendment (EPA Region 3): NCR Corporation (Millsboro Plant), Millsboro, DE., September 29, 1998.
PB98-963134REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): North Penn Area 1 Site, Souderton, PA., October 29, 1997.
PB98-963135REB 99-03 PC A02/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Whitmoyer Laboratories, Jackson Township, PA., May 12, 1998.
PB98-963136REB 99-03 PC A03/MF A01

Superfund Record of Decision Amendment (EPA Region 4): Hercules 009 Landfill, Brunswick, GA., August 14, 1998.
PB98-963137REB 99-03 PC A02/MF A01

Superfund Record of Decision Amendment (EPA Region 4): Cedartown Municipal Landfill, Cedartown, GA., May 11, 1998.
PB98-963138REB 99-03 PC A04/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Tri-County Landfill/Waste Management Illinois, South Elgin, IL., April 23, 1998.
PB98-963139REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Galen Myers Dump/Drum Salvage, Osceola, IN., September 30, 1998.
PB98-963140REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Kohler company Landfill, Kohler, WI., September 29, 1998.
PB98-963141REB 99-03 PC A02/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Refuse Hideaway Landfill, Middleton, WI., September 30, 1998.
PB98-963142REB 99-03 PC A03/MF A01

Superfund Record of Decision Amendment (EPA Region 5): Woodstock Municipal LF, Woodstock, IL., July 15, 1998.
PB98-963143REB 99-03 PC A07/MF A02

Superfund Record of Decision Amendment (EPA Region 5): Allied Chemical and Ironton Coke, Ironton, OH., September 30, 1998.
PB98-963144REB 99-03 PC A03/MF A01

Superfund Record of Decision Amendment (EPA Region 5): Moss-American (Kerr-McGee Oil Co.), Milwaukee, WI., September 30, 1998.
PB98-963145REB 99-03 PC A06/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 6): Vertac, Inc., Jacksonville, AR., January 12, 1998.
PB98-963146REB 99-03 PC A05/MF A01

Superfund Record of Decision Amendment (EPA Region 6): Petro-Chemical Systems (Turtle Bayou), Liberty County, TX., April 30, 1998.
PB98-963147REB 99-03 PC A07/MF A02

Superfund Record of Decision Amendment (EPA Region 6): Texarkana Wood Preserving Co., Texarkana, TX., March 13, 1998.
PB98-963148REB 99-03 PC A06/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Petrochem Recycling Corp./Ekotek Plant, Salt Lake City, UT., December 9, 1997.
PB98-963149REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Lowry Landfill, Aurora, CO., October 24, 1997.
PB98-963150REB 99-03 PC A13/MF A03

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Stringfellow Acid Pits, Riverside, CA., July 9, 1998.
PB98-963151REB 99-03 PC A02/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Lorentz Barrel and Drum Co., San Jose, CA., April 24, 1998.
PB98-963152REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 7): Pester Refinery Co., El Dorado, KS., September 29, 1998.
PB98-963153REB 99-03 PC A03/MF A01

Superfund Record of Decision Amendment (EPA Region 10): Eielson Air Force Base, North Star Borough, AK., September 29, 1998.
PB98-963154REB 99-03 PC A03/MF A01

Superfund Record of Decision Amendment (EPA Region 10): USAF Eielson Air Force Base, Operable Units 3, 4, and 5, Fairbanks North Star Borough, AK., September 29, 1998.
PB98-963155REB 99-03 PC A04/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Waite Park Wells, Waite Park, MN., August 11, 1998.
PB98-963156REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Reilly Tar and Chemical (Indianapolis Plant), Indianapolis, IN., October 6, 1997.
PB98-963157REB 99-03 PC A03/MF A01

Meeting Summaries from the EPA/ICMA Relocation Stakeholder Forums.
PB98-963203REB 99-01 PC A07/MF A02

Common Contaminants Found at Superfund Sites.
PB98-963217REB 99-01 PC A08/MF A02

Regional Site Assessment Priorities Plans.
PB98-963255REB 99-01 PC A01/MF A01

Updating Remedy Decisions at Select Superfund Sites. Summary Report FY 1996 and FY 1997.
PB98-963304REB 99-01 PC A06/MF A01

Interim Policy on the Use of Permanent Relocations as Part of Superfund Remedial Actions.
PB98-963305REB 99-04 PC A02/MF A01

Returning Superfund Sites to Productive Use: Luminous Processors, Athens, Georgia.
PB98-963320REB 99-03 PC A01/MF A01

Returning Superfund Sites to Productive Use: Bowers Landfill, Pickaway County, Ohio.
PB98-963322REB 99-03 PC A01/MF A01

Superfund Record of Decision (EPA Region 1): New London Submarine Base, Defense Reutilization Marketing Office (Contaminated Soil and Groundwater) Groton, CT., March 31, 1998.
PB98-963702REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 1): New London Submarine Base, Soil and Sediment Area A Downstream Water Courses/Overbank Disposal Area, Groton, CT., March 31, 1998.
PB98-963703REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 1): Brunswick Naval Air Station - No Further ACtion at Sites 4 (Acid/Caustic Pit), 11 (Fire Training Area), 13 (Defense Reutilization and Marketing Office Area) and a Remedial Action for the Eastern Plume, Brunswick, ME., February 10, 1998.
PB98-963704REB 99-02 PC A08/MF A02

Superfund Record of Decison (EPA Region 1): Davisville Naval Construction Battalion Center, Operable Unit 4, North Kingstown, RI., September 30, 1998.
PB98-963705REB 99-03 PC A07/MF A02

Superfund Record of Decison (EPA Region 1): Davisville Naval Construction Battalion Center, Operable Unit 5, North Kingstown, RI., June 30, 1998.
PB98-963706REB 99-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 1): Fletcher's Paint Works and Storage, Milford, NH., September 30, 1998.
PB98-963707REB 99-03 PC A19/MF A04

Superfund Record of Decision (EPA Region 1): Loring Air Force Base, Operable Units 3, 5, 10, and 11, Limestone, ME., August 21, 1998.
PB98-963708REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 1): New Bedford Site, Upper and Lower Harbor Operable Units, New Bedford, MA., September 25, 1998.
PB98-963709REB 99-03 PC A16/MF A03

Superfund Record of Decision (EPA Region 1): Burgess Brothers Landfill, Woodford, VT., September 25, 1998.
PB98-963710REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 1): New London Submarine Base, Source Control Operable Unit 10, New London, CT., June 26, 1998.
PB98-963711REB 99-03 PC A03/MF A01

Superfund Record of Decision (EPA Region 1): Brunswick Naval Air Station Site 2: Orion Street LF (South), Brunswick, ME., September 29, 1998.
PB98-963712REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 1): Pine Street Canal, Burlington, VT., September 29, 1998.
PB98-963713REB 99-03 PC A15/MF A03

Superfund Record of Decision (EPA Region 1): Bennington Municipal Sanitary Landfill, Bennington, VT., September 29, 1998.
PB98-963714REB 99-03 PC A09/MF A02

Superfund Record of Decision (EPA Region 1): Otis Air National Guard (USAF), Operable Unit 3, Falmouth, MA., September 30, 1998.
PB98-963715REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 1): Otis Air National Guard (USAF), Operable Unit 5, Falmouth, MA., September 30, 1998.
PB98-963716REB 99-03 PC A15/MF A03

Superfund Record of Decision (EPA Region 1): New Hampshire Plating Company, Merrimack, NH., September 28, 1998.
PB98-963717REB 99-03 PC A13/MF A03

Superfund Record of Decision (EPA Region 2): Rosen Brothers Scrap Yard/Dump, Cortland, NY., March 23, 1998.
PB98-963802REB 99-02 PC A15/MF A03

Superfund Record of Decision (EPA Region 2): Plattsburgh Air Force Base, SS-005, Operable Unit 12, Plattsburgh, NY., April 2, 1998.
PB98-963803REB 99-02 PC A05/MF A01

Superfund Record of Decision (EPA Region 2): Plattsburgh Air Force Base, SS-006, Operable Unit 13, Plattsburgh, NY., April 2, 1998.
PB98-963804REB 99-02 PC A05/MF A01

Superfund Record of Decision (EPA Region 2): Asbestos Dump, Operable Unit 3, Millington, NJ., September 8, 1998.
PB98-963805REB 99-03 PC A09/MF A02

Superfund Record of Decision (EPA Region 2): Sayreville Landfill, Operable Unit 2, Sayreville, NJ., September 23, 1998.
PB98-963806REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 2): Goldisc Recordings, Inc., Operable Unit 2, Holbrook, NY., September 30, 1998.
PB98-963807REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 2): York Oil Co., Operable Unit 2, Moira, NY., September 29, 1998.
PB98-963808REB 99-03 PC A12/MF A03

Superfund Record of Decision (EPA Region 2): Chemsol, Inc., Piscataway, NJ., September 18, 1998.
PB98-963809REB 99-03 PC A99/MF E08

Superfund Record of Decision (EPA Region 2): Naval Weapons Station Earle (Site A), Operable Unit 3, Colts Neck, NJ., September 29, 1998.
PB98-963810REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 2): Burnt Fly Bog, Marlboro Township, NJ., September 30, 1998.
PB98-963811REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 2): DuPont Necco Park Site, Operable Unit 1, Niagara County, NY., September 18, 1998.
PB98-963812REB 99-03 PC A18/MF A04

Superfund Record of Decision (EPA Region 3): Malvern TCE, Malvern, PA., November 26, 1997.
PB98-963903REB 99-03 PC A10/MF A02

Superfund Record of Decision (EPA Region 3): Metal Banks, Philadelphia, PA., December 31, 1997.
PB98-963904REB 99-02 PC A09/MF A02

Superfund Record of Decision (EPA Region 3): MW Manufacturing Operable Unit 5, Valley Township, PA., December 22, 1997.
PB98-963905REB 99-02 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Halby Chemical Co., Operable Unit 2, New Castle, DE., March 31, 1998.
PB98-963906REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 3): Ohio River Park Site, Operable Unit 3, Neville Island, PA., September 17, 1998.
PB98-963907REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 3): Metropolitan Mirror and Glass, Frackville, PA., September 30, 1998.
PB98-963908REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 3): Langley AFB/NASA Langley Center, Tabbs Creek Operable Unit, Hampton, VA., September 30, 1998.
PB98-963909REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Langley AFB/NASA Langley Center, Area E, Warehouse Operable Unit, Hampton, VA., September 28, 1998.
PB98-963910REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 3): Letterkenny Army Depot (PDO and SE Areas), Chambersburg, Franklin County, PA., September 30, 1998.
PB98-963911REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 9 (Disposal Burn Area), Dahlgren, VA., September 30, 1998.
PB98-963912REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 17 (1400 Area Lanfill), Dahlgren, VA., September 30, 1998.
PB98-963913REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Norfolk Naval Base, Operable Unit 2, CD Landfill Site 6, Norfolk, VA., September 30, 1998.
PB98-963914REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 3): Fischer and Porter Company, Operable Unit 2, Warminster, PA., September 28, 1998.
PB98-963915REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Dover Air Force Base, WP 21 and IWBs Areas, Dover, DE., May 1, 1998.
PB98-963916REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Allegany Ballistics Laboratory (USNavy) Site 10, Mineral, WV., June 30, 1998.
PB98-963917REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): US Navy Ships Parts Control Center Site 1: Carter Road Landfill, Mechanicsburg, PA., September 30, 1998.
PB98-963918REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 3): Naval Weapons Station-Yorktown, Operable Units 6 and 7, Yorktown, VA., March 23, 1998.
PB98-963919REB 99-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE) Molten Salt Reactor Experiment (MSRE) Facility, Oak Ridge, TN., July 7, 1998.
PB98-964002REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Camp Lejeune Military Reservation (USNavy) Operable Unit 11, Site 7 and 80, Onslow County, NC., January 20, 1998.
PB98-964003REB 99-02 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Milan Army Ammunition Plant, Milan, TN., March 11, 1998.
PB98-964004REB 99-02 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Unit 20, K-Area Bingham Pump Outage Pit (643-1G), Aiken, SC., March 23, 1998.
PB98-964005REB 99-02 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Jacksonville Naval Air Station, Operable Unit 1, Jacksonville, FL., August 3, 1998.
PB98-964006REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Homestead Air Force Base, Operable Unit 2, Homestead, FL., July 16, 1998.
PB98-964007REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Woolfolk Chemical Works, Inc. (Operable Unit 3), Fort Valley, GA., August 6, 1998.
PB98-964008REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Davis Park Road TCE, Gastonia, NC., September 29, 1998.
PB98-964009REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 5, Jacksonville, FL., August 4, 1998.
PB98-964010REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 6, Jacksonville, FL., August 27, 1998.
PB98-964011REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 8, Jacksonville, FL., August 27, 1998.
PB98-964012REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Fire Department Hose Training Facility, Aiken, SC., August 4, 1998.
PB98-964013REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Agriculture and Nutrition (Montgomery), Operable Unit 2, Montgomery, AL., September 28, 1998.
PB98-964014REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Motor Shops Seepage Basin (716-A), Aiken, SC., June 26, 1998.
PB98-964015REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 1, FL., September 25, 1998.
PB98-964016REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 14, Pensacola, FL., September 25, 1998.
PB98-964017REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 17, Pensacola, FL., September 25, 1998.
PB98-964018REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 5, Albany, GA., February 11, 1998.
PB98-964019REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Flanders Filters, Inc., Site, Washington, NC., September 18, 1998.
PB98-964020REB 99-03 PC A09/MF A02

Superfund Record of Decision (EPA Region 4): Shuron Inc. Site, Barnwell, SC., September 9, 1998.
PB98-964021REB 99-03 PC A14/MF A03

Superfund Record of Decision (EPA Region 4): Koppers Co., Inc. (Charleston Plant), Charleston, SC., April 29, 1998.
PB98-964022REB 99-03 PC A16/MF A03

Superfund Record of Decision (EPA Region 4): Stauffer Chemical Co. (Tarpon Springs), Operable Unit 1, Tarpon Springs, FL., July 2, 1998.
PB98-964023REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Calhoun Park Area, Charleston, SC., September 30, 1998.
PB98-964024REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE) Operable Unit 5, Paducah, KY., August 10, 1998.
PB98-964025REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE), Operable Unit 15, Paducah, KY., August 10, 1998.
PB98-964026REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) D-Area Oil Seepage Basin (631-G), Aiken, SC., August 14, 1998.
PB98-964027REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Units 41, 42, 52, and 54, Aiken, SC., September 14, 1998.
PB98-964028REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), F-Area Retention Basin (281-3F), Aiken, S.C., September 4, 1998.
PB98-964029REB 99-04 PC A07/MF A02

Superfund Record of Decision (EPA Region 5): H. O. D. Landfill, Antioch, IL., September 28m 1998.
PB98-964102REB 99-03 PC A09/MF A02

Superfund Record of Decision (EPA Region 5): Byron Salvage Yard, Byron, IL., September 24, 1998.
PB98-964103REB 99-04 PC A08/MF A02

Superfund Record of Decision (EPA Region 5): Continental Steel Corp., Kokomo, IN., September 30, 1998.
PB98-964104REB 99-03 PC A13/MF A03

Superfund Record of Decision (EPA Region 5): DuPage County Landfill/Blackwell Forest Preserve, Warrenville, IL., September 30, 1998.
PB98-964105REB 99-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 5): Petoskey Municipal Well Field Petoskey, MI., September 30, 1998.
PB98-964106REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 5): Penta Wood Products Inc., Daniel, WI., September 29, 1998.
PB98-964107REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 5): Spickler Landfill, Operable Unit 2, Spencer, WI., September 29, 1998.
PB98-964108REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 5): Allied Paper/Portage Creek/Kalamazoo River, Operable Unit 3, Kalamazoo, MI., February 10, 1998.
PB98-964110REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 5): Wright-Patterson AFB (41 IRP Sites), Dayton, OH., September 30, 1998.
PB98-964111REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 5): H and K Sales (Belding Warehouse), Belding, MI., November 4, 1997.
PB98-964112REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 5): Spartan Chemical Co., Wyoming, MI., April 9, 1998.
PB98-964113REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 6): Lincoln Creosote Site, Bossier City, LA., November 26, 1997.
PB98-964201REB 99-02 PC A04/MF A01

Superfund Record of Decision (EPA Region 6): Longhorn Army Ammunition Plant, group 1 Sites, Karnack, TX., January 23, 1998.
PB98-964202REB 99-04 PC A11/MF A03

Superfund Record of Decision (EPA Region 6): Madisonville Creosote Works, Inc., Madisonville, LA., August 25, 1998.
PB98-964203REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 6): Rinchem Co., Inc., Albuquerque, NM., September 30, 1998.
PB98-964204REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 7): Cornhusker Army Ammunition Plant, Operable Unit 2., Hall County, NE., September 30, 1998.
PB98-964302REB 99-03 PC A03/MF A01

Superfund Record of Decision (EPA Region 7): Weldon Spring Quarry/Plant/Pits (USDOE), St. Charles, MO., September 30, 1998.
PB98-964303REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 7): Iowa Army Ammunition Plant, Operable Unit 1, Middletown, IA., September 29, 1998.
PB98-964304REB 99-03 PC A06/MF A01

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PB99-100067REB 99-01 PC A02/MF A01

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Local and Regional Contributions of Fine Particulate Mass to Urban Areas in the Mid-Atlantic and Southwestern U.S.
PB99-147209REB 99-03 PC A05/MF A01

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Superfund Record of Decision Amendment (EPA Region 9): J. H. Baxter and Company, Weed CA., March 27, 1998.
PB98-963104REB 99-03 PC A08/MF A02

Superfund Record of Decision Amendment (EPA Region 5): Allied Chemical and Ironton Coke, Ironton, OH., September 30, 1998.
PB98-963144REB 99-03 PC A03/MF A01

Superfund Record of Decision Amendment (EPA Region 6): Petro-Chemical Systems (Turtle Bayou), Liberty County, TX., April 30, 1998.
PB98-963147REB 99-03 PC A07/MF A02

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Lowry Landfill, Aurora, CO., October 24, 1997.
PB98-963150REB 99-03 PC A13/MF A03

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Stringfellow Acid Pits, Riverside, CA., July 9, 1998.
PB98-963151REB 99-03 PC A02/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 7): Pester Refinery Co., El Dorado, KS., September 29, 1998.
PB98-963153REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Waite Park Wells, Waite Park, MN., August 11, 1998.
PB98-963156REB 99-03 PC A03/MF A01

Superfund Record of Decision (EPA Region 1): New London Submarine Base, Soil and Sediment Area A Downstream Water Courses/Overbank Disposal Area, Groton, CT., March 31, 1998.
PB98-963703REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 2): Rosen Brothers Scrap Yard/Dump, Cortland, NY., March 23, 1998.
PB98-963802REB 99-02 PC A15/MF A03

Superfund Record of Decision (EPA Region 2): Chemsol, Inc., Piscataway, NJ., September 18, 1998.
PB98-963809REB 99-03 PC A99/MF E08

Superfund Record of Decision (EPA Region 2): Naval Weapons Station Earle (Site A), Operable Unit 3, Colts Neck, NJ., September 29, 1998.
PB98-963810REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 2): DuPont Necco Park Site, Operable Unit 1, Niagara County, NY., September 18, 1998.
PB98-963812REB 99-03 PC A18/MF A04

Superfund Record of Decision (EPA Region 3): Malvern TCE, Malvern, PA., November 26, 1997.
PB98-963903REB 99-03 PC A10/MF A02

Superfund Record of Decision (EPA Region 3): Metal Banks, Philadelphia, PA., December 31, 1997.
PB98-963904REB 99-02 PC A09/MF A02

Superfund Record of Decision (EPA Region 3): MW Manufacturing Operable Unit 5, Valley Township, PA., December 22, 1997.
PB98-963905REB 99-02 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Halby Chemical Co., Operable Unit 2, New Castle, DE., March 31, 1998.
PB98-963906REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 3): US Navy Ships Parts Control Center Site 1: Carter Road Landfill, Mechanicsburg, PA., September 30, 1998.
PB98-963918REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 3): Naval Weapons Station-Yorktown, Operable Units 6 and 7, Yorktown, VA., March 23, 1998.
PB98-963919REB 99-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 4): Homestead Air Force Base, Operable Unit 2, Homestead, FL., July 16, 1998.
PB98-964007REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Woolfolk Chemical Works, Inc. (Operable Unit 3), Fort Valley, GA., August 6, 1998.
PB98-964008REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Davis Park Road TCE, Gastonia, NC., September 29, 1998.
PB98-964009REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 6, Jacksonville, FL., August 27, 1998.
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Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Fire Department Hose Training Facility, Aiken, SC., August 4, 1998.
PB98-964013REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Agriculture and Nutrition (Montgomery), Operable Unit 2, Montgomery, AL., September 28, 1998.
PB98-964014REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Motor Shops Seepage Basin (716-A), Aiken, SC., June 26, 1998.
PB98-964015REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 1, FL., September 25, 1998.
PB98-964016REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Shuron Inc. Site, Barnwell, SC., September 9, 1998.
PB98-964021REB 99-03 PC A14/MF A03

Superfund Record of Decision (EPA Region 4): Koppers Co., Inc. (Charleston Plant), Charleston, SC., April 29, 1998.
PB98-964022REB 99-03 PC A16/MF A03

Superfund Record of Decision (EPA Region 4): Calhoun Park Area, Charleston, SC., September 30, 1998.
PB98-964024REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 5): Continental Steel Corp., Kokomo, IN., September 30, 1998.
PB98-964104REB 99-03 PC A13/MF A03

Superfund Record of Decision (EPA Region 5): Penta Wood Products Inc., Daniel, WI., September 29, 1998.
PB98-964107REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 5): H and K Sales (Belding Warehouse), Belding, MI., November 4, 1997.
PB98-964112REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 6): Madisonville Creosote Works, Inc., Madisonville, LA., August 25, 1998.
PB98-964203REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 7): Cornhusker Army Ammunition Plant, Operable Unit 2., Hall County, NE., September 30, 1998.
PB98-964302REB 99-03 PC A03/MF A01

Superfund Record of Decision (EPA Region 7): Weldon Spring Quarry/Plant/Pits (USDOE), St. Charles, MO., September 30, 1998.
PB98-964303REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 7): Iowa Army Ammunition Plant, Operable Unit 1, Middletown, IA., September 29, 1998.
PB98-964304REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 7): Iowa Army Ammunition Plant, Operable Unit 1, Middletown, IA., March 4, 1998.
PB98-964305REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 7): 57th and North Broadway Streets, Wichita, KS., June 5, 1998.
PB98-964307REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 7): Pester Refinery Co., El Dorado, KS., September 29, 1998.
PB98-964309REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 8): Murray Smelter, Murray City, UT., April 1, 1998.
PB98-964403REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 8): Anaconda Company Smelter (ARWW&S) Operable Unit, Anaconda, MT., September 29, 1998.
PB98-964406REB 99-03 PC A99/MF E08

Superfund Record of Decision (EPA Region 8): Hill Air Air Force Base, Operable Unit 1, Ogden, UT., September 29, 1998.
PB98-964408REB 99-03 PC A16/MF A03

Superfund Record of Decision (EPA Region 9): Treasure Island Naval Station, Hunter's Point Annex (Parcel B), San Francisco, CA., October 9, 1997.
PB98-964501REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 9): Travis Air Force Base, North, East, and West Industrial Operable Units, Solano County, CA., December 3, 1997.
PB98-964503REB 99-03 PC A15/MF A03

Superfund Record of Decision (EPA Region 9): Barstow Marine Corps Logistics Base, Operable Units 5 and 6, Barstow, CA., January 12, 1998.
PB98-964506REB 99-03 PC A99/MF A06

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PB98-964507REB 99-03 PC A12/MF A03

Superfund Record of Decision (EPA Region 9): Mather Air Force Base, Basewide Operable Unit Sites, Sacramento, CA., September 28, 1998.
PB98-964510REB 99-03 PC A19/MF A04

Superfund Record of Decision (EPA Region 9): Tucson International Airport Area, Operable Unit 3 (AFP 44), Tucson, AZ., September 28, 1998.
PB98-964512REB 99-04 PC A07/MF A02

Superfund Record of Decision (EPA Region 10): Eastern Michaud Flats Contamination, Pocatello, ID., June 8, 1998.
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PB99-963100REB 99-02 Standing Order

Use of Site-Specific Land Disposal Restriction Treatability Variances Under 40 CFR 286.44(h) During Cleanups.
PB99-963317REB 99-03 PC A02/MF A01

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PB98-963124REB 99-03 PC A03/MF A01

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Solidification/Stabilization Resource Guide.
PB99-156770REB 99-04 PC A06/MF A01

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PB99-118333REB 99-02 PC A05/MF A01

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PB99-146490REB 99-03 PC A13/MF A03

WASTE HANDLING

Resource Conservation and Recovery Information System (RCRIS) Extract File (Raw Data Only) (on CD-ROM).
PB99-592570REB 99-02 Standing Order

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Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Osborne Landfill (ROD No. 1), Grove City, PA., August 24, 1998.
PB98-963110REB 99-02 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Osborne Landfill (ROD No. 2), Grove City, PA., August 24, 1998.
PB98-963111REB 99-02 PC A02/MF A01

Superfund Explanation of Significant Diference for the Record of Decision (EPA Region 2): Ramapo Landfill, Ramapo, NY., November 26, 1997.
PB98-963112REB 99-02 PC A02/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): CryoChem, Inc., Operable Unit 3 (Contamination Soil), Worman, PA., September 22, 1998.
PB98-963115REB 99-03 PC A03/MF A01

Superfund Record of Decision Amendment (EPA Region 4): Geiger (C and M Oil) Site, Rantowles, SC., September 9, 1998.
PB98-963118REB 99-03 PC A07/MF A02

Superfund Record of Decision Amendment (EPA Region 1): Tibbetts Road, Barrington, NH., September 28, 1998.
PB98-963126REB 99-03 PC A10/MF A02

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Beacon Heights Landfill, Beacon Falls, CT., September 9, 1998.
PB98-963127REB 99-03 PC A03/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Davisville Naval Construction Battalion Center, North Kingston, RI., September 30, 1998.
PB98-963130REB 99-03 PC A02/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): North Penn Area 1 Site, Souderton, PA., October 29, 1997.
PB98-963135REB 99-03 PC A02/MF A01

Superfund Record of Decision Amendment (EPA Region 4): Cedartown Municipal Landfill, Cedartown, GA., May 11, 1998.
PB98-963138REB 99-03 PC A04/MF A01

Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Galen Myers Dump/Drum Salvage, Osceola, IN., September 30, 1998.
PB98-963140REB 99-03 PC A03/MF A01

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PB98-963141REB 99-03 PC A02/MF A01

Superfund Record of Decision Amendment (EPA Region 10): USAF Eielson Air Force Base, Operable Units 3, 4, and 5, Fairbanks North Star Borough, AK., September 29, 1998.
PB98-963155REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 1): New London Submarine Base, Defense Reutilization Marketing Office (Contaminated Soil and Groundwater) Groton, CT., March 31, 1998.
PB98-963702REB 99-03 PC A08/MF A02

Superfund Record of Decison (EPA Region 1): Davisville Naval Construction Battalion Center, Operable Unit 4, North Kingstown, RI., September 30, 1998.
PB98-963705REB 99-03 PC A07/MF A02

Superfund Record of Decison (EPA Region 1): Davisville Naval Construction Battalion Center, Operable Unit 5, North Kingstown, RI., June 30, 1998.
PB98-963706REB 99-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 1): Loring Air Force Base, Operable Units 3, 5, 10, and 11, Limestone, ME., August 21, 1998.
PB98-963708REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 1): New Bedford Site, Upper and Lower Harbor Operable Units, New Bedford, MA., September 25, 1998.
PB98-963709REB 99-03 PC A16/MF A03

Superfund Record of Decision (EPA Region 1): New London Submarine Base, Source Control Operable Unit 10, New London, CT., June 26, 1998.
PB98-963711REB 99-03 PC A03/MF A01

Superfund Record of Decision (EPA Region 1): Brunswick Naval Air Station Site 2: Orion Street LF (South), Brunswick, ME., September 29, 1998.
PB98-963712REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 1): Pine Street Canal, Burlington, VT., September 29, 1998.
PB98-963713REB 99-03 PC A15/MF A03

Superfund Record of Decision (EPA Region 1): Bennington Municipal Sanitary Landfill, Bennington, VT., September 29, 1998.
PB98-963714REB 99-03 PC A09/MF A02

Superfund Record of Decision (EPA Region 1): Otis Air National Guard (USAF), Operable Unit 3, Falmouth, MA., September 30, 1998.
PB98-963715REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 2): Plattsburgh Air Force Base, SS-005, Operable Unit 12, Plattsburgh, NY., April 2, 1998.
PB98-963803REB 99-02 PC A05/MF A01

Superfund Record of Decision (EPA Region 2): Plattsburgh Air Force Base, SS-006, Operable Unit 13, Plattsburgh, NY., April 2, 1998.
PB98-963804REB 99-02 PC A05/MF A01

Superfund Record of Decision (EPA Region 2): Sayreville Landfill, Operable Unit 2, Sayreville, NJ., September 23, 1998.
PB98-963806REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 2): Goldisc Recordings, Inc., Operable Unit 2, Holbrook, NY., September 30, 1998.
PB98-963807REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 2): York Oil Co., Operable Unit 2, Moira, NY., September 29, 1998.
PB98-963808REB 99-03 PC A12/MF A03

Superfund Record of Decision (EPA Region 3): Ohio River Park Site, Operable Unit 3, Neville Island, PA., September 17, 1998.
PB98-963907REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 3): Metropolitan Mirror and Glass, Frackville, PA., September 30, 1998.
PB98-963908REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 3): Langley AFB/NASA Langley Center, Tabbs Creek Operable Unit, Hampton, VA., September 30, 1998.
PB98-963909REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Langley AFB/NASA Langley Center, Area E, Warehouse Operable Unit, Hampton, VA., September 28, 1998.
PB98-963910REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 3): Letterkenny Army Depot (PDO and SE Areas), Chambersburg, Franklin County, PA., September 30, 1998.
PB98-963911REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 9 (Disposal Burn Area), Dahlgren, VA., September 30, 1998.
PB98-963912REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 17 (1400 Area Lanfill), Dahlgren, VA., September 30, 1998.
PB98-963913REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 3): Norfolk Naval Base, Operable Unit 2, CD Landfill Site 6, Norfolk, VA., September 30, 1998.
PB98-963914REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 3): Fischer and Porter Company, Operable Unit 2, Warminster, PA., September 28, 1998.
PB98-963915REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Camp Lejeune Military Reservation (USNavy) Operable Unit 11, Site 7 and 80, Onslow County, NC., January 20, 1998.
PB98-964003REB 99-02 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Milan Army Ammunition Plant, Milan, TN., March 11, 1998.
PB98-964004REB 99-02 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Unit 20, K-Area Bingham Pump Outage Pit (643-1G), Aiken, SC., March 23, 1998.
PB98-964005REB 99-02 PC A05/MF A01

Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 5, Jacksonville, FL., August 4, 1998.
PB98-964010REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 14, Pensacola, FL., September 25, 1998.
PB98-964017REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 17, Pensacola, FL., September 25, 1998.
PB98-964018REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 5, Albany, GA., February 11, 1998.
PB98-964019REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 4): Flanders Filters, Inc., Site, Washington, NC., September 18, 1998.
PB98-964020REB 99-03 PC A09/MF A02

Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE) Operable Unit 5, Paducah, KY., August 10, 1998.
PB98-964025REB 99-03 PC A07/MF A02

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) D-Area Oil Seepage Basin (631-G), Aiken, SC., August 14, 1998.
PB98-964027REB 99-03 PC A08/MF A02

Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Units 41, 42, 52, and 54, Aiken, SC., September 14, 1998.
PB98-964028REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 5): Spickler Landfill, Operable Unit 2, Spencer, WI., September 29, 1998.
PB98-964108REB 99-03 PC A04/MF A01

Superfund Record of Decision (EPA Region 5): Wright-Patterson AFB (41 IRP Sites), Dayton, OH., September 30, 1998.
PB98-964111REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 6): Longhorn Army Ammunition Plant, group 1 Sites, Karnack, TX., January 23, 1998.
PB98-964202REB 99-04 PC A11/MF A03

Superfund Record of Decision (EPA Region 6): Rinchem Co., Inc., Albuquerque, NM., September 30, 1998.
PB98-964204REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 8): California Gulch, Operable Unit 3, Leadville, Co., May 6, 1998.
PB98-964401REB 99-03 PC A05/MF A01

Superfund Record of Decision (EPA Region 8): Eagle Mine, Operable Unit 2, Minturn/Redcliff, CO., September 3, 1998.
PB98-964404REB 99-03 PC A03/MF A01

Superfund Record of Decision (EPA Region 8): Smeltertown Site, Operable Unit 2, Former Koppers Wood Training Site, Salida, CO., June 4, 1998.
PB98-964405REB 99-03 PC A11/MF A03

Superfund Record of Decision (EPA Region 8): Portland Cement (Kiln Dust No. 2 and No. 3), Salt Lake City, UT., August 17, 1998.
PB98-964409REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 9): Tracy Defense Depot (USArmy) (2 Volumes), Tracy, CA., April 14, 1998.
PB98-964504REB 99-03 PC A99/MF A06

Superfund Record of Decision (EPA Region 9): Williams Air Force Bae, Operable Unit 5, Chandler, AZ., October 14, 1997.
PB98-964508REB 99-03 PC A06/MF A02

Superfund Record of Decision (EPA Region 10): Tulalip Landfill, Marysville, WA., September 29, 1998.
PB98-964606REB 99-03 PC A06/MF A01

Superfund Record of Decision (EPA Region 10): USArmy Fort Richardson, Operable Unit C, Fort Richardson, AK., September 30, 1998.
PB98-964607REB 99-03 PC A11/MF A03

Superfund Record of Decision (EPA Region 10): USNavy Naval Undersea Warfare Engineering Station, Operable Unit 1, Keyport, WA., September 28, 1998.
PB98-964608REB 99-03 PC A11/MF A03

Petroleum Terminals and Bulk Storage Facilities. Section 313 of the Emergency Planning and Community Right-to-Know Act. Toxic Chemical Release Inventory.
PB99-128761REB 99-02 PC A07/MF A02

Chemical Distribution Facilities. Section 313 of the Emergency Planning and Community Right-to-Know Act. Toxic Chemical Release Inventory.
PB99-128969REB 99-02 PC A07/MF A02

Coal Mining Facilities. Section 313 of the Emergency Planning and Community Right-to-Know Act. Toxic Chemical Release Inventory.
PB99-128977REB 99-02 PC A08/MF A02

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PB99-501371REB 99-02 CD-ROM $60.00

Biennial Reporting System (BRS) Data: generation and Management of Hazardous Waste, 1997 (Preliminary) (on CD-ROM).
PB99-501488REB 99-03 CD-ROM $480.00

PROJECT Model: Evaluates the Value of Supplemental Environmental Projects (SEP) (Windows Version 1.0.1) (on Diskette).
PB99-501595REB 99-03 Diskette $50.00

Analysis of State Superfund Programs: 50-State Study, 1998 Update.
PB99-963210REB 99-02 PC A15/MF A03

Environmental Response Training Program Schedule of Courses, September 27, 1999 - September 29, 2000.
PB99-963225REB 99-04 PC A06/MF A01

EPA Superfund Records of Decision (RODS) for Region 1: Connecticut, Maine, Massachussetts, New Hampshire, Rhode Island, and Vermont.
PB99-963700REB 99-02 Standing Order

EPA Superfund Records of Decision (RODS) for Region 2: New Jersey, New York, Puerto Rico, and Virgin Islands.
PB99-963800REB 99-02 Standing Order

EPA Superfund Records of Decision (RODS) for Region 3: Delaware, Washington DC., Maryland, Pennsylvania, and Virginia.
PB99-963900REB 99-02 Standing Order

EPA Superfund Records of Decision (RODS) for Region 4: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.
PB99-964000REB 99-02 Standing Order

EPA Superfund Records of Decision (RODS) for Region 5: Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.
PB99-964100REB 99-02 Standing Order

EPA Superfund Records of Decision (RODS) for Region 6: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.
PB99-964200REB 99-02 Standing Order

EPA Superfund Records of Decision (RODS) for Region 7: Iowa, Kansas, Missouri, and Nebraska.
PB99-964300REB 99-02 Standing Order

EPA Superfund Records of Decision (RODS) for Region 8: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.
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EPA Superfund Records of Decision (RODS) for Region 9: Arizona, California, Hawaii, Nevada, American Samoa, and Guam.
PB99-964500REB 99-02 Standing Order

EPA Superfund Records of Decision (RODS) for Region 10: Alaska, Idaho, Oregon, and Washington.
PB99-964600REB 99-02 Standing Order

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Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 6): Vertac, Inc., Jacksonville, AR., January 12, 1998.
PB98-963146REB 99-03 PC A05/MF A01

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Better Assessment Science Integrating Point and Nonpoint Sources (BASINS) Modeling System. EPA Region 7 (IA, KS, MO, NE) (Version 2.0) (on CD-ROM).
PB99-500753REB 99-02 CD-ROM CP D01

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PB99-500761REB 99-02 CD-ROM CP D01

Better Assessment Science Integrating Point and Nonpoint Sources (BASINS) Modeling System. EPA Region 9 (AZ, CA, HI, NV) (Version 2.0) (on CD-ROM).
PB99-500779REB 99-02 CD-ROM CP D01

Better Assessment Science Integrating Point and Nonpoint Sources (BASINS) Modeling System. EPA Region 10 (AK, ID, OR, WA) (Version 2.0) (on CD-ROM).
PB99-500787REB 99-02 CD-ROM CP D01

WATER POLLUTION STANDARDS

Proposed Phase 1 Uniform National Discharge Standards for Vessels of the Armed Forces. Technical Development Document.
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WATER QUALITY

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WATER QUALITY CRITERIA

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WATER QUALITY DATA

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WATER QUALITY MANAGEMENT

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WATER SATURATION

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PB99-140048REB 99-03 PC A03/MF A01

WATER SOFTENERS

Enhanced Coagulation and Enhanced Precipitative Softening Guidance Manual.
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WATER SUPPLY

Occurrence Assessment for Disinfectants and Disinfection Byproducts in Public Drinking Water Supplies.
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WATER SYSTEMS

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Enhanced Coagulation and Enhanced Precipitative Softening Guidance Manual.
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WATER TREATMENT PLANTS

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PB99-160129REB 99-04 PC A05/MF A01

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WATERSHEDS (BASINS)

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WEATHER FORECASTING

Using MM5 Version 2 with Models-3/CMAQ: A User's Guide and Tutorial.
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WELL LOGGING

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PB99-100018REB 99-02 PC A05/MF A01

WELLHEAD PROTECTION PROGRAM

Literature Review of Methods for Delineating Wellhead Protection Areas.
PB99-129033REB 99-02 PC A04/MF A01

WELLS

Field Applications of 'In situ' Remediation Technologies: Ground-Water Circulation Wells.
PB99-149478REB 99-03 PC A04/MF A01

WESTERN REGION (NORTH AMERICA)

Biological Aspects of Hybrid Poplar Cultivation on Floodplains in Western North America: A Review.
PB99-167330REB 99-04 PC A05/MF A01

WESTERN REGION (UNITED STATES)

Water Quality in the West.
PB99-151342REB 99-03 PC A14/MF A03

WETLANDS

Constructed Wetlands and Wastewater Management for Confined Animal Feeding Operations.
PB99-129041REB 99-02 PC A03/MF A01

Constructed Wetlands for Animal Waste Treatment: A Manual on Performance, Design, and Operation with Case Histories.
PB99-130650REB 99-02 PC A10/MF A02

Nanticoke Wetland Assessment Study.
PB99-148629REB 99-03 PC A03/MF A01

WILDLIFE

Guidance for Conducting Fish and Wildlife Consumption Surveys.
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WILLAPA RIVER

Willapa Watershed Information System (on CD-ROM).
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WIND TUNNEL TESTS

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PB99-150310REB 99-04 PC A16/MF A03

WIND TUNNELS TESTS

Flow Reference Method Testing and Analysis; Wind Tunnel Experimental Results. Volume 2.
PB99-150328REB 99-04 PC A22/MF A04

WOOD BURNING APPLIANCES

Residential Wood Combustion Technology Review. Volume 1. Technical Report.
PB99-122111REB 99-02 PC A04/MF A01

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PB99-122129REB 99-02 PC A10/MF A02

Degradation of Emissions Control Performance of Wood Stoves in Crested Butte, CO.
PB99-127995REB 99-04 PC A09/MF A02

Air Emissions from Residential Heating: The Wood Heating Option Put into Environmental Perspective.
PB99-129934REB 99-02 PC A03/MF A01

WOOD BURNING FURNACES

Review and Analysis of Emissions Data for Residential Wood-Fired Central Furnaces.
PB99-121469REB 99-02 PC A03/MF A01

WOOD PRESERVATIVES

Synergistic Wood Preservatives for Replacement of CCA.
PB99-153637REB 99-04 PC A08/MF A02

WOOD PRODUCTS

Demonstration of a No-VOC/No-HAP Wood Kitchen Cabinet Coating System.
PB99-114563REB 99-02 PC A05/MF A01

Application of Pollution Prevention Techniques to Reduce Indoor Air Emissions from Engineered Wood Products.
PB99-118309REB 99-02 PC A10/MF A03

WOOD PRODUCTS INDUSTRY

Profile of the Lumber and Wood Products Industry. EPA Office of Compliance Sector Notebook Project.
PB99-122855REB 99-02 PC A08/MF A02

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PB99-122889REB 99-02 PC A07/MF A02

Pollution Prevention and the Use of Low-VOC/HAP Coatings at Wood Furniture Manufacturing Facilities.
PB99-163156REB 99-04 PC A03/MF A01

X-RAY FLUORESCENCE ANALYSIS

Methodology for XRF Performance Charateristic Sheets.
PB99-113508REB 99-01 PC A12/MF A03

X-RAY FLUORESCENCE ANALYZERS

Laboratory Evaluation of Six New/Modified Portable X-ray Fluorescence Spectrometers for the Measurement of Lead in Characterized Paint Films and Research Material Boards. Volume 1. Technical Report.
PB99-162471REB 99-04 PC A16/MF A03

Laboratory Evaluation of Six New/Modified Portable X-ray Fluorescence Spectrometers for the Measurement of Lead in Characterized Pain Films and Research Material Boards. Volume 2. Appendices.
PB99-162489REB 99-04 PC A99/MF A06

YAMPA RIVER

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PB99-963402REB 99-01 PC A11/MF A03

Yampa River Valley Sub-Area Emergency Response Action Plan.
PB99-963403REB 99-01 PC A15/MF A03

YEAR 2000 PROBLEM

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PB99-963221REB 99-03 PC A02/MF A01

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ZEOLITES

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PB99-149775REB 99-04 PC A04/MF A01

SPONSORING EPA OFFICE INDEX

Publications are sorted alphabetically by title under the sponsoring EPA office. The EPA office is listed with the major EPA headquarters office. Laboratories and Divisions are listed alphabetically within the appropriate office.

SAMPLE ENTRY

Sponsoring EPA Office	**ENVIRONMENTAL CRITERIA AND ASSESSMENT OFFICE, Cincinnati, OH**
EPA Report Number	EPA/530/R-93/013A
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

SPONSORING EPA OFFICE INDEX

OFFICE OF EXTERNAL AFFAIRS

EPA/542/R-98/010
Abstracts of Remediation Case Studies. Volume 3.
PB99-118499REB 99-01 PC A12/MF A03

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PB99-500696REB 99-02 CD-ROM CP D02

EPA/823/C-98/004
Better Assessment Science Integrating Point and Nonpoint Sources (BASINS) Modeling System. EPA Region 2 (NJ, NY, PR, VI) (Version 2.0) (on CD-ROM).
PB99-500704REB 99-02 CD-ROM CP D02

EPA/823/C-98/005
Better Assessment Science Integrating Point and Nonpoint Sources (BASINS) Modeling System. EPA Region 3 (DE, DC, MD, PA, VA) (Version 2.0) (on CD-ROM).
PB99-500712REB 99-02 CD-ROM CP D01

Better Assessment Science Integrating Point and Nonpoint Sources (BASINS) Modeling System. EPA Region 4 (AL, FL, GA, KY, MS, NC, SC, TN) (Version 2.0) (on CD-ROM).
PB99-500720REB 99-02 CD-ROM CP D01

Better Assessment Science Integrating Point and Nonpoint Sources (BASINS) Modeling System. EPA Region 5 (IL, IN, MI, MN, OH, WI) (Version 2.0) (on CD-ROM).
PB99-500738REB 99-02 CD-ROM CP D01

Better Assessment Science Integrating Point and Nonpoint Sources (BASINS) Modeling System. EPA Region 6 (AR, LA, NM, OK, TX) (Version 2.0) (on CD-ROM).
PB99-500746REB 99-02 CD-ROM CP D01

Better Assessment Science Integrating Point and Nonpoint Sources (BASINS) Modeling System. EPA Region 7 (IA, KS, MO, NE) (Version 2.0) (on CD-ROM).
PB99-500753REB 99-02 CD-ROM CP D01

Better Assessment Science Integrating Point and Nonpoint Sources (BASINS) Modeling System. EPA Region 8 (CO, MT, ND, SD, UT, WY) (Version 2.0) (on CD-ROM).
PB99-500761REB 99-02 CD-ROM CP D01

Better Assessment Science Integrating Point and Nonpoint Sources (BASINS) Modeling System. EPA Region 9 (AZ, CA, HI, NV) (Version 2.0) (on CD-ROM).
PB99-500779REB 99-02 CD-ROM CP D01

Better Assessment Science Integrating Point and Nonpoint Sources (BASINS) Modeling System. EPA Region 10 (AK, ID, OR, WA) (Version 2.0) (on CD-ROM).
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EPA/823/B-98/006
Better Assessment Science Integrating Point and Nonpoint Sources. BASINS. Version 2.0. User's Manual.
PB99-121295REB 99-02 PC A17/MF A03

EPA/816/R-98/018
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EPA/820/B-99/001
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Clean Water Action Plan: The First Year. The Future.
PB99-145559REB 99-03 PC A03

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EPA/832/B-99/002
Combined Sewer Overflows. Guidance for Monitoring and Modeling.
PB99-146516REB 99-03 PC A14/MF A03

EPA/430/R-98/012
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EPA/855/K-97/001
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EPA/310/R-95/013
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EPA/310/R-95/015
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EPA/310/R-95/016
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EPA/738/F-98/015
RED Facts: Aluminum and Magnesium Phosphide.
PB99-123507REB 99-02 PC A03/MF A01

EPA/738/F-98/011
RED Facts: Bromoxynil.
PB99-123499REB 99-02 PC A02/MF A01

EPA/738/F-99/001
RED Facts: Chlorine Gas.
PB99-149510REB 99-03 PC A02/MF A01

EPA/738/F-99/008
RED Facts: Chlorothalonil.
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RED Facts: DCPA.
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EPA/738/F-98/006
RED Facts: Deet.
PB99-128803REB 99-02 PC A02/MF A01

EPA/738/F-98/005
RED Facts: Dichlobenil.
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EPA/738/F-98/016
RED Facts: Dicofol.
PB99-123549REB 99-02 PC A02/MF A01

EPA/738/F-98/022
RED Facts: Hydramethylnon.
PB99-121204REB 99-02 PC A02/MF A01

EPA/738/F-98/017
RED Facts: Iprodione.
PB99-123531REB 99-02 PC A02/MF A01

EPA/738/F-98/019
RED Facts: Methomyl.
PB99-128787REB 99-02 PC A02/MF A01

EPA/738/F-98/024
RED Facts: Methylisothiazolinone.
PB99-128811REB 99-02 PC A02/MF A01

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RED Facts: Rodenticide Cluster.
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EPA/738/F-98/020
RED Facts: Thiodicarb.
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EPA/738/F-98/007
RED Facts: Triclopyr.
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EPA/738/F-99/003
RED Facts: Virelure.
PB99-149486REB 99-03 PC A02/MF A01

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ABEL Model: Evaluates Corporations' Claims of Inability to Afford Penalities and Compliance Costs (Version 3.0.16) (on Diskette).
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OFFICE OF POLICY AND EVALUATION

Air Quality Impacts of Intercity Freight. Volume 2. Appendices.
PB99-119620REB 99-01 PC A15/MF A03

OFFICE OF TOXIC SUBSTANCES

EPA-540-R-98-046
Analysis of State Superfund Programs: 50-State Study, 1998 Update.
PB99-963210REB 99-02 PC A15/MF A03

EPA/747/R-97/004
Archive Operations and Protocols (Concerning Lead Based Paint).
PB99-113425REB 99-01 PC A11/MF A03

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Chemical Distribution Facilities. Section 313 of the Emergency Planning and Community Right-to-Know Act. Toxic Chemical Release Inventory.
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PB99-140030REB 99-03 PC A06/MF A01

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Constructive Engagement Resource Guide: Practical Advice for Dialogue Among Facilities, Workers, Communities and Regulators.
PB99-164725REB 99-04 PC A09/MF A02

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PB99-132904REB 99-02 PC A08/MF A02

EPA/745/R-98/011
EPCRA Section 313 Reporting Guidance for Food Processors.
PB99-156903REB 99-04 PC A09/MF A02

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Lead-Based Paint Abatement and Repair and Maintenance Study in Baltimore: Findings Based on Two Years of Follow-up.
PB99-101453REB 99-01 PC A08/MF A02

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PB99-132912REB 99-02 PC A07/MF A02

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PB99-113508REB 99-01 PC A12/MF A03

EPA/730/F-98/029
Pesticide Fact Sheet: 'Bacillus thuringiensis' Subspecies 'israelensis' Strain EG2215.
PB99-115826REB 99-01 PC A03/MF A01

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Pesticide Fact Sheet: 'Beauveria bassiana' Strain ATCC 74040.
PB99-114795REB 99-01 PC A02/MF A01

EPA/730/F-98/030
Pesticide Fact Sheet: Canola Oil (October 1998).
PB99-114787REB 99-01 PC A02/MF A01

EPA/730/F-98/039
Pesticide Fact Sheet: Carfentrazone-ethyl.
PB99-114779REB 99-01 PC A03/MF A01

EPA/730/F-98/032
Pesticide Fact Sheet: Cinnamaldehyde (October 1998).
PB99-114761REB 99-01 PC A02/MF A01

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Pesticide Fact Sheet: Dihydroazdirachtin (October 1998).
PB99-114753REB 99-01 PC A02/MF A01

EPA/730/F-98/027
Pesticide Fact Sheet: Fluroxypyr.
PB99-114746REB 99-01 PC A03/MF A01

EPA/730/F-98/031
Pesticide Fact Sheet: Iron (Ferric) Phosphate.
PB99-114803REB 99-01 PC A02/MF A01

EPA/730/F-98/026
Pesticide Fact Sheet: Isoxaflutole.
PB99-114738REB 99-01 PC A03/MF A01

EPA/730/F-98/028
Pesticide Fact Sheet: Maple Lactone.
PB99-114720REB 99-01 PC A02/MF A01

EPA/730/F-98/034
Pesticide Fact Sheet: Mono- and di-Potassium Salts of Phosphorous Acid.
PB99-114712REB 99-01 PC A02/MF A01

EPA/730/F-98/035
Pesticide Fact Sheet: 'Paecilomyces fumosoroseus' Apopka Strain 97.
PB99-114704REB 99-01 PC A02/MF A01

EPA/730/F-98/033
Pesticide Fact Sheet: Potassium dihydrogen Phosphate.
PB99-114696REB 99-01 PC A03/MF A01

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PB99-114688REB 99-01 PC A02/MF A01

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PB99-115834REB 99-01 PC A02/MF A01

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PB99-130205REB 99-02 PC A03/MF A01

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PB99-134256REB 99-03 PC A08/MF A02

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PB99-113870REB 99-01 PC A13/MF A03

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PB99-134264REB 99-03 PC A10/MF A02

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PB99-149338REB 99-03 PC A09/MF A02

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PB99-500647REB 99-04 CD-ROM $50.00

EPA/745/R-98/016
Toxic Release Inventory, 1996. Data Quality Report.
PB99-156929REB 99-04 PC A12/MF A03

Toxic Substances Control Act (TSCA): ASCII or EBCDIC Data July 1999. TSCA Chemical Substances Inventory: Revised Inventory Synonym and Preferred Name File (Raw Data File) (on Magnetic Tape or CD-ROM).
PB99-501959REB 99-04 Mag Tape $454.00

Toxic Substances Control Act (TSCA): ASCII Text Data, February 1999. TSCA Chemical Substances Inventory: Revised Inventory Synonym and Preferred Name File (Raw Data File) (on Diskette).
PB99-500670REB 99-02 Diskette $161.00

Toxic Substances Control Act (TSCA): ASCII Text Data July 1999. TSCA Chemical Substances Inventory: Revised Inventory Synonym and Preferred Name File (Raw Data File) (on Diskette or CD-ROM).
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PB99-149346REB 99-03 PC A09/MF A02

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EPA-540-R-99-011
Environmental Response Training Program Schedule of Courses, September 27, 1999 - September 29, 2000.
PB99-963225REB 99-04 PC A06/MF A01

EPA Superfund Enforcement.
PB99-963600REB 99-02 Standing Order

EPA Superfund Program Policies and Administration.
PB99-963200REB 99-02 Standing Order

EPA Superfund Records of Decision (RODS) for Region 1: Connecticut, Maine, Massachussetts, New Hampshire, Rhode Island, and Vermont.
PB99-963700REB 99-02 Standing Order

EPA Superfund Records of Decision (RODS) for Region 2: New Jersey, New York, Puerto Rico, and Virgin Islands.
PB99-963800REB 99-02 Standing Order

EPA Superfund Records of Decision (RODS) for Region 3: Delaware, Washington DC., Maryland, Pennsylvania, and Virginia.
PB99-963900REB 99-02 Standing Order

EPA Superfund Records of Decision (RODS) for Region 4: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.
PB99-964000REB 99-02 Standing Order

EPA Superfund Records of Decision (RODS) for Region 5: Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.
PB99-964100REB 99-02 Standing Order

EPA Superfund Records of Decision (RODS) for Region 6: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.
PB99-964200REB 99-02 Standing Order

EPA Superfund Records of Decision (RODS) for Region 7: Iowa, Kansas, Missouri, and Nebraska.
PB99-964300REB 99-02 Standing Order

EPA Superfund Records of Decision (RODS) for Region 8: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.
PB99-964400REB 99-02 Standing Order

EPA Superfund Records of Decision (RODS) for Region 9: Arizona, California, Hawaii, Nevada, American Samoa, and Guam.
PB99-964500REB 99-02 Standing Order

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PB99-964600REB 99-02 Standing Order

EPA Superfund Removals and Emergency Response.
PB99-963400REB 99-02 Standing Order

EPA Superfund Site Assessment and Remediation.
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Focus Areas for Headquarters Support for Regional Decision Making.
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PB99-963231REB 99-04 PC A03/MF A01

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PB99-131963REB 99-03 PC E99/MF E14

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PB99-100067REB 99-01 PC A02/MF A01

EPA/738/F-98/013
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EPA 541-R98-044
Superfund Explanation of Significant Diference for the Record of Decision (EPA Region 2): Ramapo Landfill, Ramapo, NY., November 26, 1997.
PB98-963112REB 99-02 PC A02/MF A01

EPA 541-R-98-045
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Hunterstown Road, Straban Township, PA., August 25, 1998.
PB98-963113REB 99-02 PC A02/MF A01

EPA 541-R98-042
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Osborne Landfill (ROD No. 1), Grove City, PA., August 24, 1998.
PB98-963110REB 99-02 PC A03/MF A01

EPA 541-R98-043
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Osborne Landfill (ROD No. 2), Grove City, PA., August 24, 1998.
PB98-963111REB 99-02 PC A02/MF A01

EPA 541-R97-213
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 10): Unatilla Army Depot (lagoons), Hermiston, OR., September 30, 1997.
PB97-963161REB 99-02 PC A05/MF A01

EPA 541-R98-004
Superfund Record of Decision (EPA Region 1): Brunswick Naval Air Station - No Further ACtion at Sites 4 (Acid/Caustic Pit), 11 (Fire Training Area), 13 (Defense Reutilization and Marketing Office Area) and a Remedial Action for the Eastern Plume, Brunswick, ME., February 10, 1998.
PB98-963704REB 99-02 PC A08/MF A02

EPA 541-R98-007
Superfund Record of Decision (EPA Region 2): Plattsburgh Air Force Base, SS-005, Operable Unit 12, Plattsburgh, NY., April 2, 1998.
PB98-963803REB 99-02 PC A05/MF A01

EPA 541-R98-008
Superfund Record of Decision (EPA Region 2): Plattsburgh Air Force Base, SS-006, Operable Unit 13, Plattsburgh, NY., April 2, 1998.
PB98-963804REB 99-02 PC A05/MF A01

EPA 541-R98-006
Superfund Record of Decision (EPA Region 2): Rosen Brothers Scrap Yard/Dump, Cortland, NY., March 23, 1998.
PB98-963802REB 99-02 PC A15/MF A03

EPA 541-R98-012
Superfund Record of Decision (EPA Region 3): Metal Banks, Philadelphia, PA., December 31, 1997.
PB98-963904REB 99-02 PC A09/MF A02

EPA 541-R98-013
Superfund Record of Decision (EPA Region 3): MW Manufacturing Operable Unit 5, Valley Township, PA., December 22, 1997.
PB98-963905REB 99-02 PC A05/MF A01

EPA 541 R-98-019
Superfund Record of Decision (EPA Region 4): Camp Lejeune Military Reservation (USNavy) Operable Unit 11, Site 7 and 80, Onslow County, NC., January 20, 1998.
PB98-964003REB 99-02 PC A08/MF A02

EPA 541-R98-020
Superfund Record of Decision (EPA Region 4): Milan Army Ammunition Plant, Milan, TN., March 11, 1998.
PB98-964004REB 99-02 PC A08/MF A02

EPA 541-R98-021
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PB98-964005REB 99-02 PC A05/MF A01

EPA 541-R98-047
Superfund Record of Decision (EPA Region 6): Lincoln Creosote Site, Bossier City, LA., November 26, 1997.
PB98-964201REB 99-02 PC A04/MF A01

EPA 541-R98-035
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PB98-964602REB 99-02 PC A12/MF A03

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EPA-540-F-96-028
Integrating Brownfields and Traditional Site Assessment.
PB96-963267REB 99-03 PC A03/MF A01

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PB98-963305REB 99-04 PC A02/MF A01

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PB99-963405REB 99-03 PC A03/MF A01

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PB99-963217REB 99-03 PC A05/MF A01

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PB99-963302REB 99-03 PC A01/MF A01

EPA-540-F-99-009
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PB99-963315REB 99-03 PC A04/MF A01

EPA-540-F-99-011
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PB99-963317REB 99-03 PC A02/MF A01

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EPA 500-F-98-250
Brownfields Economic Redevelopment Initiative. Guidelines for Brownfields Assessment Demonstration Pilots.
PB99-963308REB 99-01 PC A03/MF A01

EPA/540/R-98/008
Common Contaminants Found at Superfund Sites.
PB98-963217REB 99-01 PC A08/MF A02

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PB99-963505REB 99-02 PC A03/MF A01

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PB99-963304REB 99-01 PC A05/MF A01

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PB98-963255REB 99-01 PC A01/MF A01

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PB99-963212REB 99-01 PC A01/MF A01

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PB98-963243REB 99-01 PC A03/MF A01

EPA-540-F-98-022
Returning Superfund Sites to Productive Use: Bowers Landfill, Pickaway County, Ohio.
PB98-963322REB 99-03 PC A01/MF A01

EPA-540-F-98-020
Returning Superfund Sites to Productive Use: Luminous Processors, Athens, Georgia.
PB98-963320REB 99-03 PC A01/MF A01

EPA-540-R-98-042
Risk Assessment Guidance for Superfund: Volume 1. Human Health Evaluation Manual. Supplement to Part A: Community Involvement in Superfund Risk Assessments.
PB99-963303REB 99-03 PC A03/MF A01

ROD Amendments and Explanations of Significant Differences (ESD).
PB99-963100REB 99-02 Standing Order

EPA 541-R98-118
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Beacon Heights Landfill, Beacon Falls, CT., September 9, 1998.
PB98-963127REB 99-03 PC A03/MF A01

EPA 541-R98-121
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Davisville Naval Construction Battalion Center, North Kingston, RI., September 30, 1998.
PB98-963130REB 99-03 PC A02/MF A01

EPA 541-R98-119
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Iron Horse Park, Operable Unit 1, Boston/Marine Wastewater Lagoons, Billerica, MA., October 1, 1997.
PB98-963128REB 99-03 PC A03/MF A01

EPA 541-R98-120
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Loring Air Force Base, Operable Unit 2, Limestone, Maine, September 30, 1998.
PB98-963129REB 99-04 PC A03/MF A01

EPA 541-R98-135
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): Cosden Chemical Coatings Corp., Beverly, NJ., September 24, 1998.
PB98-963131REB 99-03 PC A03/MF A01

EPA 541-R98-136
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): Reich Farms, Pleasant Plains, NJ., May 26, 1998.
PB98-963132REB 99-03 PC A03/MF A01

EPA 541-R98-050
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Arrowhead Associates Scovill Corporation, Montross, VA., September 15, 1998.
PB98-963116REB 99-03 PC A03/MF A01

EPA 541-R98-015
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Brown's Battery Breaking, Shoemakersville, PA., December 19, 1997.
PB98-963101REB 99-03 PC A02/MF A01

EPA 541-R98-049
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): CryoChem, Inc., Operable Unit 3 (Contamination Soil), Worman, PA., September 22, 1998.
PB98-963115REB 99-03 PC A03/MF A01

EPA 541-R98-146
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): North Penn Area 1 Site, Souderton, PA., October 29, 1997.
PB98-963135REB 99-03 PC A02/MF A01

EPA 541-R98-048
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): North Penn Area 1, Souderton, PA., September 24, 1998.
PB98-963114REB 99-03 PC A02/MF A01

EPA 541-R98-039
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Westinghouse Elevator Company Plant, Gettysburg, PA., August 3, 1998.
PB98-963108REB 99-03 PC A03/MF A01

EPA 541-R98-147
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Whitmoyer Laboratories, Jackson Township, PA., May 12, 1998.
PB98-963136REB 99-03 PC A03/MF A01

EPA 541-R98-110
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 4): Wrigley Charcoal Plant, Wrigley, TN., October 20, 1997.
PB98-963123REB 99-03 PC A02/MF A01

EPA 541-R98-152
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Galen Myers Dump/Drum Salvage, Osceola, IN., September 30, 1998.
PB98-963140REB 99-03 PC A03/MF A01

EPA 541-R98-153
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Kohler company Landfill, Kohler, WI., September 29, 1998.
PB98-963141REB 99-03 PC A02/MF A01

EPA 541-R98-154
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Refuse Hideaway Landfill, Middleton, WI., September 30, 1998.
PB98-963142REB 99-03 PC A03/MF A01

EPA 541-R98-189
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Reilly Tar and Chemical (Indianapolis Plant), Indianapolis, IN., October 6, 1997.
PB98-963157REB 99-03 PC A03/MF A01

EPA 541-R98-151
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Tri-County Landfill/Waste Management Illinois, South Elgin, IL., April 23, 1998.
PB98-963139REB 99-03 PC A03/MF A01

EPA 541-R98-188
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Waite Park Wells, Waite Park, MN., August 11, 1998.
PB98-963156REB 99-03 PC A03/MF A01

EPA 541-R98-160
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 6): Vertac, Inc., Jacksonville, AR., January 12, 1998.
PB98-963146REB 99-03 PC A05/MF A01

EPA 540-R98-165
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 7): Pester Refinery Co., El Dorado, KS., September 29, 1998.
PB98-963153REB 99-03 PC A03/MF A01

EPA 540-R98-115
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Burlington Northern (Somers Plant), Somers, MT., July 21, 1998.
PB98-963124REB 99-03 PC A03/MF A01

EPA 540-R98-176
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Lowry Landfill, Aurora, CO., October 24, 1997.
PB98-963150REB 99-03 PC A13/MF A03

EPA 541-R98-175
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Petrochem Recycling Corp./Ekotek Plant, Salt Lake City, UT., December 9, 1997.
PB98-963149REB 99-03 PC A03/MF A01

EPA 541-R98-116
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Silver Bow Creek/Butte Area Silver Bow and Deer Lodge, MT., August 31, 1998.
PB98-963125REB 99-03 PC A04/MF A01

EPA 541-R98-179
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Lorentz Barrel and Drum Co., San Jose, CA., April 24, 1998.
PB98-963152REB 99-03 PC A03/MF A01

EPA 541-R98-178
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Stringfellow Acid Pits, Riverside, CA., July 9, 1998.
PB98-963151REB 99-03 PC A02/MF A01

EPA 541-R98-040
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 10): Fort Lewis Logistics Center, Tillicum, WA., September 9, 1998.
PB98-963109REB 99-03 PC A03/MF A01

EPA 541-R98-062
Superfund Explanation of Significant Difference for the the Record of Decision (EPA Region 10): Idaho National Engineering Lab (USDOE) Pit 9 (WAG-7), Operable Units 7-10, Idaho Falls, ID., September 1, 1998.
PB98-963117REB 99-03 PC A03/MF A01

Superfund Public Information System (SPIS) January 1999 (on CD-ROM).
PB99-501371REB 99-02 CD-ROM $60.00

EPA 541-R98-117
Superfund Record of Decision Amendment (EPA Region 1): Tibbetts Road, Barrington, NH., September 28, 1998.
PB98-963126REB 99-03 PC A10/MF A02

EPA 541-R98-016
Superfund Record of Decision Amendment (EPA Region 3): Gas Light Company, Dover, DE., December 16, 1997.
PB98-963102REB 99-03 PC A04/MF A01

EPA 541-R98-145
Superfund Record of Decision Amendment (EPA Region 3): NCR Corporation (Millsboro Plant), Millsboro, DE., September 29, 1998.
PB98-963134REB 99-03 PC A03/MF A01

EPA 541-R98-150
Superfund Record of Decision Amendment (EPA Region 4): Cedartown Municipal Landfill, Cedartown, GA., May 11, 1998.
PB98-963138REB 99-03 PC A04/MF A01

EPA 541-R98-087
Superfund Record of Decision Amendment (EPA Region 4): Geiger (C and M Oil) Site, Rantowles, SC., September 9, 1998.
PB98-963118REB 99-03 PC A07/MF A02

EPA 541-R98-149
Superfund Record of Decision Amendment (EPA Region 4): Hercules 009 Landfill, Brunswick, GA., August 14, 1998.
PB98-963137REB 99-03 PC A02/MF A01

EPA 541-R98-088
Superfund Record of Decision Amendment (EPA Region 4): Whitehouse Oil Pits, Whitehouse, FL., September 24, 1998.
PB98-963119REB 99-03 PC A05/MF A01

EPA 541-R98-156
Superfund Record of Decision Amendment (EPA Region 5): Allied Chemical and Ironton Coke, Ironton, OH., September 30, 1998.
PB98-963144REB 99-03 PC A03/MF A01

EPA 541-R98-100
Superfund Record of Decision Amendment (EPA Region 5): H. Brown Company, Inc., Grand Rapids, MI., February 25, 1998.
PB98-963121REB 99-03 PC A05/MF A01

EPA 541-R98-157
Superfund Record of Decision Amendment (EPA Region 5): Moss-American (Kerr-McGee Oil Co.), Milwaukee, WI., September 30, 1998.
PB98-963145REB 99-03 PC A06/MF A01

EPA 541-R98-101
Superfund Record of Decision Amendment (EPA Region 5): Ott/Story/Cordova Chemical Co., Dalton Township, MI., February 26, 1998.
PB98-963122REB 99-03 PC A06/MF A01

EPA 541-R98-099
Superfund Record of Decision Amendment (EPA Region 5): Springfield Township Dump, Davisburg, MI., June 10, 1998.
PB98-963120REB 99-03 PC A05/MF A01

EPA 541-R98-155
Superfund Record of Decision Amendment (EPA Region 5): Woodstock Municipal LF, Woodstock, IL., July 15, 1998.
PB98-963143REB 99-03 PC A07/MF A02

EPA 541-R98-161
Superfund Record of Decision Amendment (EPA Region 6): Petro-Chemical Systems (Turtle Bayou), Liberty County, TX., April 30, 1998.
PB98-963147REB 99-03 PC A07/MF A02

EPA 541-R98-162
Superfund Record of Decision Amendment (EPA Region 6): Texarkana Wood Preserving Co., Texarkana, TX., March 13, 1998.
PB98-963148REB 99-03 PC A06/MF A01

EPA 541-R98-033
Superfund Record of Decision Amendment (EPA Region 9): J. H. Baxter and Company, Weed CA., March 27, 1998.
PB98-963104REB 99-03 PC A08/MF A02

EPA 541-R98-185
Superfund Record of Decision Amendment (EPA Region 10): Eielson Air Force Base, North Star Borough, AK., September 29, 1998.
PB98-963154REB 99-03 PC A03/MF A01

EPA 541-R98-186
Superfund Record of Decision Amendment (EPA Region 10): USAF Eielson Air Force Base, Operable Units 3, 4, and 5, Fairbanks North Star Borough, AK., September 29, 1998.
PB98-963155REB 99-03 PC A04/MF A01

EPA 541-R98-131
Superfund Record of Decision (EPA Region 1): Bennington Municipal Sanitary Landfill, Bennington, VT., September 29, 1998.
PB98-963714REB 99-03 PC A09/MF A02

EPA 541-R98-129
Superfund Record of Decision (EPA Region 1): Brunswick Naval Air Station Site 2: Orion Street LF (South), Brunswick, ME., September 29, 1998.
PB98-963712REB 99-03 PC A07/MF A02

EPA 541-R98-127
Superfund Record of Decision (EPA Region 1): Burgess Brothers Landfill, Woodford, VT., September 25, 1998.
PB98-963710REB 99-03 PC A08/MF A02

EPA 541-R98-124
Superfund Record of Decision (EPA Region 1): Fletcher's Paint Works and Storage, Milford, NH., September 30, 1998.
PB98-963707REB 99-03 PC A19/MF A04

EPA 541-R98-125.
Superfund Record of Decision (EPA Region 1): Loring Air Force Base, Operable Units 3, 5, 10, and 11, Limestone, ME., August 21, 1998.
PB98-963708REB 99-03 PC A07/MF A02

EPA 541-R98-126
Superfund Record of Decision (EPA Region 1): New Bedford Site, Upper and Lower Harbor Operable Units, New Bedford, MA., September 25, 1998.
PB98-963709REB 99-03 PC A16/MF A03

EPA 541-R98-134
Superfund Record of Decision (EPA Region 1): New Hampshire Plating Company, Merrimack, NH., September 28, 1998.
PB98-963717REB 99-03 PC A13/MF A03

EPA 541-R98-002
Superfund Record of Decision (EPA Region 1): New London Submarine Base, Defense Reutilization Marketing Of-

fice (Contaminated Soil and Groundwater) Groton, CT., March 31, 1998.
PB98-963702REB 99-03 PC A08/MF A02

EPA 541-R98-003
Superfund Record of Decision (EPA Region 1): New London Submarine Base, Soil and Sediment Area A Downstream Water Courses/Overbank Disposal Area, Groton, CT., March 31, 1998.
PB98-963703REB 99-03 PC A08/MF A02

EPA 541-R98-128
Superfund Record of Decision (EPA Region 1): New London Submarine Base, Source Control Operable Unit 10, New London, CT., June 26, 1998.
PB98-963711REB 99-03 PC A03/MF A01

EPA 541-R98-132
Superfund Record of Decision (EPA Region 1): Otis Air National Guard (USAF), Operable Unit 3, Falmouth, MA., September 30, 1998.
PB98-963715REB 99-03 PC A05/MF A01

EPA 541-R98-133
Superfund Record of Decision (EPA Region 1): Otis Air National Guard (USAF), Operable Unit 5, Falmouth, MA., September 30, 1998.
PB98-963716REB 99-03 PC A15/MF A03

EPA 541-R98-130
Superfund Record of Decision (EPA Region 1): Pine Street Canal, Burlington, VT., September 29, 1998.
PB98-963713REB 99-03 PC A15/MF A03

EPA 541-R98-053
Superfund Record of Decision (EPA Region 2): Asbestos Dump, Operable Unit 3, Millington, NJ., September 8, 1998.
PB98-963805REB 99-03 PC A09/MF A02

EPA 541-R98-143
Superfund Record of Decision (EPA Region 2): Burnt Fly Bog, Marlboro Township, NJ., September 30, 1998.
PB98-963811REB 99-03 PC A07/MF A02

EPA 541-R98-137
Superfund Record of Decision (EPA Region 2) Carroll and Dubies Sewage Disposal, Port Jervis, NY., August 24, 1998.
PB98-963133REB 99-03 PC A02/MF A01

EPA 541-R98-141
Superfund Record of Decision (EPA Region 2): Chemsol, Inc., Piscataway, NJ., September 18, 1998.
PB98-963809REB 99-03 PC A99/MF E08

EPA 541-R98-144
Superfund Record of Decision (EPA Region 2): DuPont Necco Park Site, Operable Unit 1, Niagara County, NY., September 18, 1998.
PB98-963812REB 99-03 PC A18/MF A04

EPA 541-R98-139
Superfund Record of Decision (EPA Region 2): Goldisc Recordings, Inc., Operable Unit 2, Holbrook, NY., September 30, 1998.
PB98-963807REB 99-03 PC A07/MF A02

EPA 541-R98-142
Superfund Record of Decision (EPA Region 2): Naval Weapons Station Earle (Site A), Operable Unit 3, Colts Neck, NJ., September 29, 1998.
PB98-963810REB 99-03 PC A06/MF A01

EPA 541-R98-138
Superfund Record of Decision (EPA Region 2): Sayreville Landfill, Operable Unit 2, Sayreville, NJ., September 23, 1998.
PB98-963806REB 99-03 PC A08/MF A02

EPA 541-R98-140
Superfund Record of Decision (EPA Region 2): York Oil Co., Operable Unit 2, Moira, NY., September 29, 1998.
PB98-963808REB 99-03 PC A12/MF A03

EPA 541-R98-109
Superfund Record of Decision (EPA Region 3): Allegany Ballistics Laboratory (USNavy) Site 10, Mineral, WV., June 30, 1998.
PB98-963917REB 99-03 PC A05/MF A01

EPA 541-R98-108
Superfund Record of Decision (EPA Region 3): Dover Air Force Base, WP 21 and IWBs Areas, Dover, DE., May 1, 1998.
PB98-963916REB 99-03 PC A05/MF A01

EPA 541-R98-054
Superfund Record of Decision (EPA Region 3): Fischer and Porter Company, Operable Unit 2, Warminster, PA., September 28, 1998.
PB98-963915REB 99-03 PC A05/MF A01

EPA 541-R98-014
Superfund Record of Decision (EPA Region 3): Halby Chemical Co., Operable Unit 2, New Castle, DE., March 31, 1998.
PB98-963906REB 99-03 PC A08/MF A02

EPA 541-R98-066
Superfund Record of Decision (EPA Region 3): Langley AFB/NASA Langley Center, Area E, Warehouse Operable Unit, Hampton, VA., September 28, 1998.
PB98-963910REB 99-03 PC A04/MF A01

EPA 541-R98-065
Superfund Record of Decision (EPA Region 3): Langley AFB/NASA Langley Center, Tabbs Creek Operable Unit, Hampton, VA., September 30, 1998.
PB98-963909REB 99-03 PC A05/MF A01

EPA 541-R98-067
Superfund Record of Decision (EPA Region 3): Letterkenny Army Depot (PDO and SE Areas), Chambersburg, Franklin County, PA., September 30, 1998.
PB98-963911REB 99-03 PC A06/MF A01

EPA 541-R98-011
Superfund Record of Decision (EPA Region 3): Malvern TCE, Malvern, PA., November 26, 1997.
PB98-963903REB 99-03 PC A10/MF A02

EPA 541-R98-064
Superfund Record of Decision (EPA Region 3): Metropolitan Mirror and Glass, Frackville, PA., September 30, 1998.
PB98-963908REB 99-03 PC A04/MF A01

EPA 541-R98-069
Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 9 (Disposal Burn Area), Dahlgren, VA., September 30, 1998.
PB98-963912REB 99-03 PC A06/MF A01

EPA 541-R98-070
Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 17 (1400 Area Lanfill), Dahlgren, VA., September 30, 1998.
PB98-963913REB 99-03 PC A05/MF A01

EPA 541-R98-184
Superfund Record of Decision (EPA Region 3): Naval Weapons Station-Yorktown, Operable Units 6 and 7, Yorktown, VA., March 23, 1998.
PB98-963919REB 99-03 PC A06/MF A02

EPA 541-R98-081
Superfund Record of Decision (EPA Region 3): Norfolk Naval Base, Operable Unit 2, CD Landfill Site 6, Norfolk, VA., September 30, 1998.
PB98-963914REB 99-03 PC A07/MF A02

EPA 541-R98-046
Superfund Record of Decision (EPA Region 3): Ohio River Park Site, Operable Unit 3, Neville Island, PA., September 17, 1998.
PB98-963907REB 99-03 PC A06/MF A01

EPA 541-R98-148
Superfund Record of Decision (EPA Region 3): US Navy Ships Parts Control Center Site 1: Carter Road Landfill, Mechanicsburg, PA., September 30, 1998.
PB98-963918REB 99-03 PC A04/MF A01

EPA 541-R98-068
Superfund Record of Decision (EPA Region 4): Agriculture and Nutrition (Montgomery), Operable Unit 2, Montgomery, AL., September 28, 1998.
PB98-964014REB 99-03 PC A07/MF A02

EPA 541-R98-104
Superfund Record of Decision (EPA Region 4): Calhoun Park Area, Charleston, SC., September 30, 1998.
PB98-964024REB 99-03 PC A08/MF A02

EPA 541-R98-056
Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 5, Jacksonville, FL., August 4, 1998.
PB98-964010REB 99-03 PC A04/MF A01

EPA 541-R98-057
Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 6, Jacksonville, FL., August 27, 1998.
PB98-964011REB 99-03 PC A05/MF A01

EPA 541-R98-058
Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 8, Jacksonville, FL., August 27, 1998.
PB98-964012REB 99-03 PC A05/MF A01

EPA 541-R98-055
Superfund Record of Decision (EPA Region 4): Davis Park Road TCE, Gastonia, NC., September 29, 1998.
PB98-964009REB 99-03 PC A06/MF A01

EPA 541-R98-085
Superfund Record of Decision (EPA Region 4): Flanders Filters, Inc., Site, Washington, NC., September 18, 1998.
PB98-964020REB 99-03 PC A09/MF A02

EPA 541-R98-023
Superfund Record of Decision (EPA Region 4): Homestead Air Force Base, Operable Unit 2, Homestead, FL., July 16, 1998.
PB98-964007REB 99-03 PC A08/MF A02

EPA 541-R98-022
Superfund Record of Decision (EPA Region 4): Jacksonville Naval Air Station, Operable Unit 1, Jacksonville, FL., August 3, 1998.
PB98-964006REB 99-03 PC A05/MF A01

EPA 541-R98-102
Superfund Record of Decision (EPA Region 4): Koppers Co., Inc. (Charleston Plant), Charleston, SC., April 29, 1998.
PB98-964022REB 99-03 PC A16/MF A03

EPA 541-R98-082
Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 5, Albany, GA., February 11, 1998.
PB98-964019REB 99-03 PC A06/MF A01

EPA 541-R98-018
Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE) Molten Salt Reactor Expenment (MSRE) Facility, Oak Ridge, TN., July 7, 1998.
PB98-964002REB 99-03 PC A04/MF A01

EPA 541-R98-112
Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE) Operable Unit 5, Paducah, KY., August 10, 1998.
PB98-964025REB 99-03 PC A07/MF A02

EPA 541-R98-113
Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE), Operable Unit 15, Paducah, KY., August 10, 1998.
PB98-964026REB 99-03 PC A05/MF A01

EPA 541-R98-072
Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 1, FL., September 25, 1998.
PB98-964016REB 99-03 PC A07/MF A02

EPA 541-R98-073
Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 14, Pensacola, FL., September 25, 1998.
PB98-964017REB 99-03 PC A04/MF A01

EPA 541-R98-074
Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 17, Pensacola, FL., September 25, 1998.
PB98-964018REB 99-03 PC A06/MF A01

EPA 541-R98-114
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) D-Area Oil Seepage Basin (631-G), Aiken, SC., August 14, 1998.
PB98-964027REB 99-03 PC A08/MF A02

EPA 541-R98-190
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), F-Area Retention Basin (281-3F), Aiken, S.C., September 4, 1998.
PB98-964029REB 99-04 PC A07/MF A02

EPA 541-R98-059
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Fire Department Hose Training Facility, Aiken, SC., August 4, 1998.
PB98-964013REB 99-03 PC A05/MF A01

EPA 541-R98-071
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Motor Shops Seepage Basin (716-A), Aiken, SC., June 26, 1998.
PB98-964015REB 99-03 PC A05/MF A01

EPA 541-R98-187
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Units 41, 42, 52, and 54, Aiken, SC., September 14, 1998.
PB98-964028REB 99-03 PC A04/MF A01

EPA 541-R98-086
Superfund Record of Decision (EPA Region 4): Shuron Inc. Site, Barnwell, SC., September 9, 1998.
PB98-964021REB 99-03 PC A14/MF A03

EPA 541-R98-103
Superfund Record of Decision (EPA Region 4): Stauffer Chemical Co. (Tarpon Springs), Operable Unit 1, Tarpon Springs, FL., July 2, 1998.
PB98-964023REB 99-03 PC A06/MF A01

EPA 541-R98-111
Superfund Record of Decision (EPA Region 4): Woolfolk Chemical Works, Inc. (Operable Unit 3), Fort Valley, GA., August 6, 1998.
PB98-964008REB 99-03 PC A07/MF A02

EPA 541-R98-098
Superfund Record of Decision (EPA Region 5): Allied Paper/Portage Creek/Kalamazoo River, Operable Unit 3, Kalamazoo, MI., February 10, 1998.
PB98-964110REB 99-03 PC A05/MF A01

EPA 541-R98-090
Superfund Record of Decision (EPA Region 5): Byron Salvage Yard, Byron, IL., September 24, 1998.
PB98-964103REB 99-04 PC A08/MF A02

EPA 541-R98-158
Superfund Record of Decision (EPA Region 5): Continental Steel Corp., Kokomo, IN., September 30, 1998.
PB98-964104REB 99-03 PC A13/MF A03

EPA 541-R98-092
Superfund Record of Decision (EPA Region 5): DuPage County Landfill/Blackwell Forest Preserve, Warrenville, IL., September 30, 1998.
PB98-964105REB 99-03 PC A06/MF A02

EPA 541-R98-158
Superfund Record of Decision (EPA Region 5): H and K Sales (Belding Warehouse), Belding, MI., November 4, 1997.
PB98-964112REB 99-03 PC A04/MF A01

EPA 541-R98-089
Superfund Record of Decision (EPA Region 5): H. O. D. Landfill, Antioch, IL., September 28m 1998.
PB98-964102REB 99-03 PC A09/MF A02

EPA 541-R98-094
Superfund Record of Decision (EPA Region 5): Penta Wood Products Inc., Daniel, WI., September 29, 1998.
PB98-964107REB 99-03 PC A07/MF A02

EPA 541-R98-093
Superfund Record of Decision (EPA Region 5): Petoskey Municipal Well Field Petoskey, MI., September 30, 1998.
PB98-964106REB 99-03 PC A08/MF A02

EPA 541-R98-159
Superfund Record of Decision (EPA Region 5): Spartan Chemical Co., Wyoming, MI., April 9, 1998.
PB98-964113REB 99-03 PC A05/MF A01

EPA 541-R98-095
Superfund Record of Decision (EPA Region 5): Spickler Landfill, Operable Unit 2, Spencer, WI., September 29, 1998.
PB98-964108REB 99-03 PC A04/MF A01

EPA 541-R98-105
Superfund Record of Decision (EPA Region 5): Wright-Patterson AFB (41 IRP Sites), Dayton, OH., September 30, 1998.
PB98-964111REB 99-03 PC A06/MF A01

OFFICE OF RESEARCH AND DEVELOPMENT

EPA 541-R98-075
Superfund Record of Decision (EPA Region 6): Longhorn Army Ammunition Plant, group 1 Sites, Karnack, TX., January 23, 1998.
PB98-964202REB 99-04 PC A11/MF A03

EPA 541-R98-163
Superfund Record of Decision (EPA Region 6): Madisionvile Creosote Works, Inc., Madisonville, LA., August 25, 1998.
PB98-964203REB 99-03 PC A07/MF A02

EPA 541-R98-164
Superfund Record of Decision (EPA Region 6): Rinchem Co., Inc., Albuquerque, NM., September 30, 1998.
PB98-964204REB 99-03 PC A06/MF A01

EPA 541-R98-170
Superfund Record of Decision (EPA Region 7): 57th and North Broadway Streets, Wichita, KS., June 5, 1998.
PB98-964307REB 99-03 PC A06/MF A01

EPA 541-R98-171
Superfund Record of Decision (EPA Region 7): Bruno Co-Op Association/Associated Properities, Bruno, NE., September 30, 1998.
PB98-964308REB 99-03 PC A06/MF A01

EPA 541-R98-172
Superfund Record of Decision (EPA Region 7): Cornhusker Army Ammunition Plant, Operable Unit 2., Hall County, NE., September 30, 1998.
PB98-964302REB 99-03 PC A03/MF A01

EPA 541-R98-168
Superfund Record of Decision (EPA Region 7): Iowa Army Ammunition Plant, Operable Unit 1, Middletown, IA., March 4, 1998.
PB98-964305REB 99-03 PC A06/MF A01

EPA 541-R98-167
Superfund Record of Decision (EPA Region 7): Iowa Army Ammunition Plant, Operable Unit 1, Middletown, IA., September 29, 1998.
PB98-964304REB 99-03 PC A06/MF A01

EPA 541-R98-174
Superfund Record of Decision (EPA Region 7): Lake City Army Ammunition Plant (NW Lagoon), Independence, MO., September 29, 1998.
PB98-964310REB 99-03 PC A05/MF A01

EPA 541-R98-173
Superfund Record of Decision (EPA Region 7): Pester Refinery Co., El Dorado, KS., September 29, 1998.
PB98-964309REB 99-03 PC A04/MF A01

EPA 541-R98-169
Superfund Record of Decision (EPA Region 7): St. Louis Airport/HHS/Futura Coatings Co., St. Louis County, MO., August 27, 1998.
PB98-964306REB 99-03 PC A12/MF A03

EPA 541-R98-166
Superfund Record of Decision (EPA Region 7): Weldon Spring Quarry/Plant/Pits (USDOE), St. Charles, MO., September 30, 1998.
PB98-964303REB 99-03 PC A06/MF A01

EPA 541-R98-096
Superfund Record of Decision (EPA Region 8): Anaconda Company Smelter (ARWW&S) Operable Unit, Anaconda, MT., September 29, 1998.
PB98-964406REB 99-03 PC A99/MF E08

EPA 541-R98-076
Superfund Record of Decision (EPA Region 8): California Gulch, Operable Unit 3, Leadville, Co., May 6, 1998.
PB98-964401REB 99-03 PC A05/MF A01

EPA 541-R98-077
Superfund Record of Decision (EPA Region 8): California Gulch, Operable Unit 4, Leadville, CO., March 31, 1998.
PB98-964402REB 99-03 PC A11/MF A03

EPA 541-R98-079
Superfund Record of Decision (EPA Region 8): Eagle Mine, Operable Unit 2, Minturn/Redcliff, CO., September 3, 1998.
PB98-964404REB 99-03 PC A03/MF A01

EPA 541-R98-107
Superfund Record of Decision (EPA Region 8): Hill Air Air Force Base, Operable Unit 1, Ogden, UT., September 29, 1998.
PB98-964408REB 99-03 PC A16/MF A03

EPA 541-R98-106
Superfund Record of Decision (EPA Region 8): Monticello Mill Tailings (USDOE), Operable Unit 3, Monticello, UT., September 29, 1998.
PB98-964407REB 99-03 PC A05/MF A01

EPA 541-R98-078
Superfund Record of Decision (EPA Region 8): Murray Smelter, Murray City, UT., April 1, 1998.
PB98-964403REB 99-03 PC A08/MF A02

EPA 541-R98-177
Superfund Record of Decision (EPA Region 8): Portland Cement (Kiln Dust No. 2 and No. 3), Salt Lake City, UT., August 17, 1998.
PB98-964409REB 99-03 PC A06/MF A01

EPA 541-R98-080
Superfund Record of Decision (EPA Region 8): Smeltertown Site, Operable Unit 2, Former Koppers Wood Training Site, Salida, CO., June 4, 1998.
PB98-964405REB 99-03 PC A11/MF A03

EPA 541-R98-041
Superfund Record of Decision (EPA Region 9): Andersen Air Force Base, Operable Unit 3 (Marbo Annex), Yigo, Guam, June 16, 1998.
PB98-964507REB 99-03 PC A12/MF A03

EPA 541-R98-031
Superfund Record of Decision (EPA Region 9): Barstow Marine Corps Logistics Base, Operable Units 1 and 2, Barstow, CA., April 7, 1998.
PB98-964505REB 99-03 PC A15/MF A03

EPA 541-R98-032
Superfund Record of Decision (EPA Region 9): Barstow Marine Corps Logistics Base, Operable Units 5 and 6, Barstow, CA., January 12, 1998.
PB98-964506REB 99-03 PC A99/MF A06

EPA 541-R98-180
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EPA 541-R98-083
Superfund Record of Decision (EPA Region 9): San Gabriel Valley (Area 4), Puente Valley operable Unit, La Puente, CA., September 30, 1998.
PB98-964509REB 99-03 PC A10/MF A03

EPA 541-R98-030
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PB98-964504REB 99-03 PC A99/MF A06

EPA 541-R98-029
Superfund Record of Decision (EPA Region 9): Travis Air Force Base, North, East, and West Industrial Operable Units, Solano County, CA., December 3, 1997.
PB98-964503REB 99-03 PC A15/MF A03

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PB98-964601REB 99-03 PC A12/MF A03

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EPA/600/A-98/143
Small Scale Biomass Fueled Gas Turbine Power Plant.
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EPA/600/A-99/065
Solutions to Indoor Air Problems: Let's First Understand the Source.
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Status of SO2 Scrubbing Technologies.
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Study of Fundamentals of Mercury Speciation in Coal-Fired Boilers under Simulated Post-Combustion Conditions.
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Testing of Fuel Cells to Recover Energy from Landfill Gas; Groton Landfill.
PB99-105199REB 99-02 PC A09/MF A02

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Third-Generation Foam Blowing Agents for Foam Insulation.
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EPA/600/A-98/124
Tires, Open Burning.
PB99-105637REB 99-01 PC A03/MF A01

EPA/600/A-98/140
Use of Intelligent Computational Techniques for the Estimation and Projection of Air Pollutant Emissions.
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EPA/600/A-98/120
Use of Mono- to Tri-Chlorinated Dibenzodioxin (CDD) and Dibenzofuran (CDF) Congeners/Homologues as Indicators of Tetra- to Octa-CDD/CDF Emissions from Municipal Waste and Waste/Coal Combustion.
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Variability of Heavy Duty Vehicle Operating Mode Frequencies for Prediction of Mobile Emissions.
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MUNICIPAL ENVIRONMENTAL RESEARCH LAB - Cinn, OH

EPA/600/R-98/058
Application of the Electromagnetic Borehole Flowmeter.
PB99-100018REB 99-02 PC A05/MF A01

EPA/625/R-99/001
Cost Estimating Tools and Resources for Addressing Sites under the Brownfields Initiative.
PB99-155467REB 99-04 PC A04/MF A01

EPA/600/R-99/037
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EPA/600/R-98/045
Demonstration of Packaging Materials Alternatives to Expanded Polystyrene.
PB99-104705REB 99-01 PC A07/MF A02

EPA/600/R-98/068
Environmental Profile for Propylene Carbonate.
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Pollution Prevention Research Strategy.
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Stormwater Treatment at Critical Areas: The Multi-Chambered Treatment Train (MCTT).
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EPA/600/R-98/124
Substitution Reactions for the Detoxification of Hazardous Chemicals.
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PB99-121428REB 99-02 PC A04/MF A01

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REGION VIII - DENVER, CO

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PB99-151342REB 99-03 PC A14/MF A03

REGION X - SEATTLE, WA

EPA/910/R-99/004
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EPA/910/R-99/015
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EPA/910/R-99/001
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PB99-147217REB 99-03 PC A03/MF A01

CORPORATE AUTHOR INDEX

Entries are sequenced by corporate name, report number, and NTIS order number. The monitor agency number is given following the report title.

SAMPLE ENTRY

Corporate/Performing Organization	**University of Wyoming Research Corp., Laramie, WY**
(Report or Series Number)	EPA/530/R-93/013A
Title	Engineering and Environmental Aspects of Recycled Materials for Highway Construction
(Sponsor's Report or Series Number)	EPA/530/R-93/013A
NTIS Order Number/Media Code Price Codes	PB94-100443/REB PC A10/MF A03

CORPORATE AUTHOR INDEX

ABB/COMBUSTION ENGINEERING, INC., WINDSOR, CT. POWER PLANT LABS.

Demonstration of Natural Gas Reburn for NOx Emissions Reduction at Ohio Edison Company's Cyclone-Fired Niles Plant Unit No. 1.
(EPA/600/R-99/063)
PB99-156408REB 99-04 PC A13/MF A03

ACUREX ENVIRONMENTAL CORP., RESEARCH TRIANGLE PARK, NC.

Development of a Hazardous Waste Incinerator Target Analyte List of Products of Incomplete Combustion.
(EPA/600/R-98/076)
PB99-102618REB 99-01 PC A05/MF A01

Development of On-Road Emission Factors Heavy-Duty Diesel Vehicles Using a Continuous Sampling System.
(EPA/600/A-98/125)
PB99-106296REB 99-01 PC A03/MF A01

Mercury Sorption Mechanisms and Control by Calcium-Based Sorbents.
(EPA/600/A-99/036)
PB99-146334REB 99-03 PC A03/MF A01

Evaluation of Ozone-Friendly Hydrofluoropropane-Based Zeotropic Refrigerant Mixtures in a Lorenz-Meutzner Refrigerator/Freezer.
(EPA/600/A-99/032)
PB99-146375REB 99-03 PC A03/MF A01

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Demonstration of a No-VOC/No-HAP Wood Kitchen Cabinet Coating System.
(EPA/600/R-98/131)
PB99-114563REB 99-02 PC A05/MF A01

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(EPA/600/R-99/017)
PB99-143224REB 99-03 PC A23/MF A04

ARCADIS GERAGHTY AND MILLER, INC., RESEARCH TRIANGLE PARK, NC.

Emissions of Air Toxics from the Production of Charcoal in a Simulated Missouri Charcoal Kiln.
(EPA/600/A-98/122)
PB99-102147REB 99-01 PC A03/MF A01

NOx Abatement by Fuel-Lean Reburning: Laboratory Combustor and Pilot-Scale Package Boiler Results.
(EPA/600/A-98/119)
PB99-102162REB 99-01 PC A03/MF A01

Emissions of Polynuclear Aromatic Hydrocarbons from the Open Burning of Household Waste in Barrels.
(EPA/600/A-98/114)
PB99-102238REB 99-01 PC A03/MF A01

Investigation of Remote Sensing Devices for Chemical Characterization of Motor Vehicle Exhaust.
(EPA/600/R-98/170)
PB99-127987REB 99-02 PC A04/MF A01

Study of Fundamentals of Mercury Speciation in Coal-Fired Boilers under Simulated Post-Combustion Conditions.
(EPA/600/R-99/026)
PB99-144347REB 99-03 PC A04/MF A01

Characterization of Low-VOC Latex Paints: Volatile Organic Compound Content, VOC and Aldehyde Emissions, and Paint Performance.
(EPA/600/R-99/035)
PB99-146920REB 99-04 PC A06/MF A01

Emissions from Street Vendor Cooking Devices (Charcoal Grilling).
(EPA/600/R-99/048)
PB99-146995REB 99-04 PC A07/MF A02

Mercury Speciation in Combustion Systems: Studies with Simulated Flue Gases and Model Fly Ashes.
(EPA/600/A-99/049)
PB99-163081REB 99-04 PC A03/MF A01

Gas-Phase and Particulate Emissions during Application of a Water-Based Cleaner with a Hand-Pump Sprayer.
(EPA/600/A-99/063)
PB99-171514REB 99-04 PC A02/MF A01

Evaluation of Low-VOC Latex Paints.
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EPA 541-R98-007
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PB98-963803REB 99-02 PC A05/MF A01

EPA 541-R98-008
Superfund Record of Decision (EPA Region 2): Plattsburgh Air Force Base, SS-006, Operable Unit 13, Plattsburgh, NY., April 2, 1998.
PB98-963804REB 99-02 PC A05/MF A01

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PB98-963905REB 99-02 PC A05/MF A01

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PB98-963906REB 99-03 PC A08/MF A02

EPA 541-R98-015
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Brown's Battery Breaking, Shoemakersville, PA., December 19, 1997.
PB98-963101REB 99-03 PC A02/MF A01

EPA 541-R98-016
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PB98-963102REB 99-03 PC A04/MF A01

EPA 541-R98-018
Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE) Molten Salt Reactor Experiment (MSRE) Facility, Oak Ridge, TN., July 7, 1998.
PB98-964002REB 99-03 PC A04/MF A01

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PB98-964003REB 99-02 PC A08/MF A02

EPA 541-R98-020
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PB98-964004REB 99-02 PC A08/MF A02

EPA 541-R98-021
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Unit 20, K-Area Bingham Pump Outage Pit (643-1G), Aiken, SC., March 23, 1998.
PB98-964005REB 99-02 PC A05/MF A01

EPA 541-R98-022
Superfund Record of Decision (EPA Region 4): Jacksonville Naval Air Station, Operable Unit 1, Jacksonville, FL., August 3, 1998.
PB98-964006REB 99-03 PC A05/MF A01

EPA 541-R98-023
Superfund Record of Decision (EPA Region 4): Homestead Air Force Base, Operable Unit 2, Homestead, FL., July 16, 1998.
PB98-964007REB 99-03 PC A08/MF A02

EPA 541-R98-027
Superfund Record of Decision (EPA Region 9): Treasure Island Naval Station, Hunter's Point Annex (Parcel B), San Francisco, CA., October 9, 1997.
PB98-964501REB 99-03 PC A07/MF A02

EPA 541-R98-028
Superfund Record of Decision (EPA Region 9): Yuma Marine Corps Air Station, Operable Unit 2, Yuma, AZ., December 2, 1997.
PB98-964502REB 99-03 PC A10/MF A02

EPA 541-R98-029
Superfund Record of Decision (EPA Region 9): Travis Air Force Base, North, East, and West Industrial Operable Units, Solano County, CA., December 3, 1997.
PB98-964503REB 99-03 PC A15/MF A03

EPA 541-R98-030
Superfund Record of Decision (EPA Region 9): Tracy Defense Depot (USArmy) (2 Volumes), Tracy, CA., April 14, 1998.
PB98-964504REB 99-03 PC A99/MF A06

EPA 541-R98-031
Superfund Record of Decision (EPA Region 9): Barstow Marine Corps Logistics Base, Operable Units 1 and 2, Barstow, CA., April 7, 1998.
PB98-964505REB 99-03 PC A15/MF A03

EPA 541-R98-032
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PB98-964506REB 99-03 PC A99/MF A06

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PB98-963104REB 99-03 PC A08/MF A02

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PB98-964601REB 99-03 PC A12/MF A03

EPA 541-R98-035
Superfund Record of Decision (EPA Region 10): Idaho National Engineering Laboratory (USDOE), Operable Unit 2-13, Idaho Falls, ID., December 17, 1997.
PB98-964602REB 99-02 PC A12/MF A03

EPA 541-R98-039
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Westinghouse Elevator Company Plant, Gettysburg, PA., August 3, 1998.
PB98-963108REB 99-03 PC A03/MF A01

EPA 541-R98-040
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 10): Fort Lewis Logistics Center, Tillicum, WA., September 9, 1998.
PB98-963109REB 99-03 PC A03/MF A01

EPA 541-R98-041
Superfund Record of Decision (EPA Region 9): Andersen Air Force Base, Operable Unit 3 (Marbo Annex), Yigo, Guam, June 16, 1998.
PB98-964507REB 99-03 PC A12/MF A03

EPA 541-R98-042
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Osborne Landfill (ROD No. 1), Grove City, PA., August 24, 1998.
PB98-963110REB 99-02 PC A03/MF A01

EPA 541-R98-043
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PB98-963111REB 99-02 PC A02/MF A01

EPA 541-R98-044
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PB98-963112REB 99-02 PC A02/MF A01

EPA 541-R-98-045
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PB98-963113REB 99-02 PC A02/MF A01

EPA 541-R98-046
Superfund Record of Decision (EPA Region 3): Ohio River Park Site, Operable Unit 3, Neville Island, PA., September 17, 1998.
PB98-963907REB 99-03 PC A06/MF A01

EPA 541-R98-047
Superfund Record of Decision (EPA Region 6): Lincoln Creosote Site, Bossier City, LA., November 26, 1997.
PB98-964201REB 99-02 PC A04/MF A01

EPA 541-R98-048
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): North Penn Area 1, Souderton, PA., September 24, 1998.
PB98-963114REB 99-03 PC A02/MF A01

EPA 541-R98-049
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): CryoChem, Inc., Operable Unit 3 (Contamination Soil), Worman, PA., September 22, 1998.
PB98-963115REB 99-03 PC A03/MF A01

EPA 541-R98-050
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Arrowhead Associates Scovill Corporation, Montross, VA., September 15, 1998.
PB98-963116REB 99-03 PC A03/MF A01

EPA 541-R98-051
Superfund Record of Decision (EPA Region 9): Williams Air Force Bae, Operable Unit 5, Chandler, AZ., October 14, 1997.
PB98-964508REB 99-03 PC A06/MF A02

EPA 541-R98-052
Superfund Record of Decision (EPA Region 10): Vancouver Water Station No. 1 Contamination, Vancouver, WA., September 11, 1998.
PB98-964603REB 99-03 PC A05/MF A01

EPA 541-R98-053
Superfund Record of Decision (EPA Region 2): Asbestos Dump, Operable Unit 3, Millington, NJ., September 8, 1998.
PB98-963805REB 99-03 PC A09/MF A02

EPA 541-R98-054
Superfund Record of Decision (EPA Region 3): Fischer and Porter Company, Operable Unit 2, Warminster, PA., September 28, 1998.
PB98-963915REB 99-03 PC A05/MF A01

EPA 541-R98-055
Superfund Record of Decision (EPA Region 4): Davis Park Road TCE, Gastonia, NC., September 29, 1998.
PB98-964009REB 99-03 PC A06/MF A01

EPA 541-R98-056
Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 5, Jacksonville, FL., August 4, 1998.
PB98-964010REB 99-03 PC A04/MF A01

EPA 541-R98-057
Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 6, Jacksonville, FL., August 27, 1998.
PB98-964011REB 99-03 PC A05/MF A01

EPA 541-R98-058
Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 8, Jacksonville, FL., August 27, 1998.
PB98-964012REB 99-03 PC A05/MF A01

EPA 541-R98-059
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Fire Department Hose Training Facility, Aiken, SC., August 4, 1998.
PB98-964013REB 99-03 PC A05/MF A01

EPA 541-R98-060
Superfund Record of Decision (EPA Region 10): Idaho National Engineering Lab (USDOE), Operable Unit 8-98, Idaho Falls, ID., September 29, 1998.
PB98-964604REB 99-03 PC A10/MF A02

EPA 541-R98-061
Superfund Record of Decision (EPA Region 10): Idaho National Engineering Lab (USDOE) (ANL-W), Operable Unit 9-04, Idaho Falls, ID., September 29, 1998.
PB98-964605REB 99-03 PC A11/MF A03

EPA 541-R98-062
Superfund Explanation of Significant Difference for the the Record of Decision (EPA Region 10): Idaho National Engineering Lab (USDOE) Pit 9 (WAG-7), Operable Units 7-10, Idaho Falls, ID., September 1, 1998.
PB98-963117REB 99-03 PC A03/MF A01

EPA 541-R98-063
Superfund Record of Decision (EPA Region 10): Tulalip Landfill, Marysville, WA., September 29, 1998.
PB98-964606REB 99-03 PC A06/MF A01

EPA 541-R98-064
Superfund Record of Decision (EPA Region 3): Metropolitan Mirror and Glass, Frackville, PA., September 30, 1998.
PB98-963908REB 99-03 PC A04/MF A01

EPA 541-R98-065
Superfund Record of Decision (EPA Region 3): Langley AFB/NASA Langley Center, Tabbs Creek Operable Unit, Hampton, VA., September 30, 1998.
PB98-963909REB 99-03 PC A05/MF A01

EPA 541-R98-066
Superfund Record of Decision (EPA Region 3): Langley AFB/NASA Langley Center, Area E, Warehouse Operable Unit, Hampton, VA., September 28, 1998.
PB98-963910REB 99-03 PC A04/MF A01

EPA 541-R98-067
Superfund Record of Decision (EPA Region 3): Letterkenny Army Depot (PDO and SE Areas), Chambersburg, Franklin County, PA., September 30, 1998.
PB98-963911REB 99-03 PC A06/MF A01

EPA 541-R98-068
Superfund Record of Decision (EPA Region 4): Agriculture and Nutrition (Montgomery), Operable Unit 2, Montgomery, AL., September 28, 1998.
PB98-964014REB 99-03 PC A07/MF A02

EPA 541-R98-069
Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 9 (Disposal Burn Area), Dahlgren, VA., September 30, 1998.
PB98-963912REB 99-03 PC A06/MF A01

EPA 541-R98-070
Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 17 (1400 Area Lanfill), Dahlgren, VA., September 30, 1998.
PB98-963913REB 99-03 PC A05/MF A01

EPA 541-R98-071
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Motor Shops Seepage Basin (716-A), Aiken, SC., June 26, 1998.
PB98-964015REB 99-03 PC A05/MF A01

EPA 541-R98-072
Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 1, FL., September 25, 1998.
PB98-964016REB 99-03 PC A07/MF A02

EPA 541-R98-073
Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 14, Pensacola, FL., September 25, 1998.
PB98-964017REB 99-03 PC A04/MF A01

EPA 541-R98-074
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PB98-964018REB 99-03 PC A06/MF A01

EPA 541-R98-075
Superfund Record of Decision (EPA Region 6): Longhorn Army Ammunition Plant, group 1 Sites, Karnack, TX., January 23, 1998.
PB98-964202REB 99-04 PC A11/MF A03

EPA 541-R98-076
Superfund Record of Decision (EPA Region 8): California Gulch, Operable Unit 3, Leadville, Co., May 6, 1998.
PB98-964401REB 99-03 PC A05/MF A01

EPA 541-R98-077
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PB98-964402REB 99-03 PC A11/MF A03

EPA 541-R98-078
Superfund Record of Decision (EPA Region 8): Murray Smelter, Murray City, UT., April 1, 1998.
PB98-964403REB 99-03 PC A08/MF A02

EPA 541-R98-079
Superfund Record of Decision (EPA Region 8): Eagle Mine, Operable Unit 2, Minturn/Redcliff, CO., September 3, 1998.
PB98-964404REB 99-03 PC A03/MF A01

EPA 541-R98-080
Superfund Record of Decision (EPA Region 8): Smeltertown Site, Operable Unit 2, Former Koppers Wood Training Site, Salida, CO., June 4, 1998.
PB98-964405REB 99-03 PC A11/MF A03

EPA 541-R98-081
Superfund Record of Decision (EPA Region 3): Norfolk Naval Base, Operable Unit 2, CD Landfill Site 6, Norfolk, VA., September 30, 1998.
PB98-963914REB 99-03 PC A07/MF A02

EPA 541-R98-082
Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 5, Albany, GA., February 11, 1998.
PB98-964019REB 99-03 PC A06/MF A01

EPA 541-R98-083
Superfund Record of Decision (EPA Region 9): San Gabriel Valley (Area 4), Puente Valley operable Unit, La Puente, CA., September 30, 1998.
PB98-964509REB 99-03 PC A10/MF A03

EPA 541-R98-084
Superfund Record of Decision (EPA Region 9): Mather Air Force Base, Basewide Operable Unit Sites, Sacramento, CA., September 28, 1998.
PB98-964510REB 99-03 PC A19/MF A04

EPA 541-R98-085
Superfund Record of Decision (EPA Region 4): Flanders Filters, Inc., Site, Washington, NC., September 18, 1998.
PB98-964020REB 99-03 PC A09/MF A02

EPA 541-R98-086
Superfund Record of Decision (EPA Region 4): Shuron Inc. Site, Barnwell, SC., September 9, 1998.
PB98-964021REB 99-03 PC A14/MF A03

EPA 541-R98-087
Superfund Record of Decision Amendment (EPA Region 4): Geiger (C and M Oil) Site, Rantowles, SC., September 9, 1998.
PB98-963118REB 99-03 PC A07/MF A02

EPA 541-R98-088
Superfund Record of Decision Amendment (EPA Region 4): Whitehouse Oil Pits, Whitehouse, FL., September 24, 1998.
PB98-963119REB 99-03 PC A05/MF A01

EPA 541-R98-089
Superfund Record of Decision (EPA Region 5): H. O. D. Landfill, Antioch, IL., September 28m 1998.
PB98-964102REB 99-03 PC A09/MF A02

EPA 541-R98-090
Superfund Record of Decision (EPA Region 5): Byron Salvage Yard, Byron, IL., September 24, 1998.
PB98-964103REB 99-04 PC A08/MF A02

EPA 541-R98-092
Superfund Record of Decision (EPA Region 5): DuPage County Landfill/Blackwell Forest Preserve, Warrenville, IL., September 30, 1998.
PB98-964105REB 99-03 PC A06/MF A02

EPA 541-R98-093
Superfund Record of Decision (EPA Region 5): Petoskey Municipal Well Field Petoskey, MI., September 30, 1998.
PB98-964106REB 99-03 PC A08/MF A02

EPA 541-R98-094
Superfund Record of Decision (EPA Region 5): Penta Wood Products Inc., Daniel, WI., September 29, 1998.
PB98-964107REB 99-03 PC A07/MF A02

EPA 541-R98-095
Superfund Record of Decision (EPA Region 5): Spickler Landfill, Operable Unit 2, Spencer, WI., September 29, 1998.
PB98-964108REB 99-03 PC A04/MF A01

EPA 541-R98-096
Superfund Record of Decision (EPA Region 8): Anaconda Company Smelter (ARWW&S) Operable Unit, Anaconda, MT., September 29, 1998.
PB98-964406REB 99-03 PC A99/MF E08

EPA 541-R98-098
Superfund Record of Decision (EPA Region 5): Allied Paper/Portage Creek/Kalamazoo River, Operable Unit 3, Kalamazoo, MI., February 10, 1998.
PB98-964110REB 99-03 PC A05/MF A01

EPA 541-R98-099
Superfund Record of Decision Amendment (EPA Region 5): Springfield Township Dump, Davisburg, MI., June 10, 1998.
PB98-963120REB 99-03 PC A05/MF A01

EPA 541-R98-100
Superfund Record of Decision Amendment (EPA Region 5): H. Brown Company, Inc., Grand Rapids, MI., February 25, 1998.
PB98-963121REB 99-03 PC A05/MF A01

EPA 541-R98-101
Superfund Record of Decision Amendment (EPA Region 5): Ott/Story/Cordova Chemical Co., Dalton Township, MI., February 26, 1998.
PB98-963122REB 99-03 PC A06/MF A01

EPA 541-R98-102
Superfund Record of Decision (EPA Region 4): Koppers Co., Inc. (Charleston Plant), Charleston, SC., April 29, 1998.
PB98-964022REB 99-03 PC A16/MF A03

EPA 541-R98-103
Superfund Record of Decision (EPA Region 4): Stauffer Chemical Co. (Tarpon Springs), Operable Unit 1, Tarpon Springs, FL., July 2, 1998.
PB98-964023REB 99-03 PC A06/MF A01

EPA 541-R98-104
Superfund Record of Decision (EPA Region 4): Calhoun Park Area, Charleston, SC., September 30, 1998.
PB98-964024REB 99-03 PC A08/MF A02

EPA 541-R98-105
Superfund Record of Decision (EPA Region 5): Wright-Patterson AFB (41 IRP Sites), Dayton, OH., September 30, 1998.
PB98-964111REB 99-03 PC A06/MF A01

EPA 541-R98-106
Superfund Record of Decision (EPA Region 8): Monticello Mill Tailings (USDOE), Operable Unit 3, Monticello, UT., September 29, 1998.
PB98-964407REB 99-03 PC A05/MF A01

EPA 541-R98-107
Superfund Record of Decision (EPA Region 8): Hill Air Air Force Base, Operable Unit 1, Ogden, UT., September 29, 1998.
PB98-964408REB 99-03 PC A16/MF A03

EPA 541-R98-108
Superfund Record of Decision (EPA Region 3): Dover Air Force Base, WP 21 and IWBs Areas, Dover, DE., May 1, 1998.
PB98-963916REB 99-03 PC A05/MF A01

EPA 541-R98-109
Superfund Record of Decision (EPA Region 3): Allegany Ballistics Laboratory (USNavy) Site 10, Mineral, WV., June 30, 1998.
PB98-963917REB 99-03 PC A05/MF A01

EPA 541-R98-110
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 4): Wrigley Charcoal Plant, Wrigley, TN., October 20, 1997.
PB98-963123REB 99-03 PC A02/MF A01

EPA 541-R98-111
Superfund Record of Decision (EPA Region 4): Woolfolk Chemical Works, Inc. (Operable Unit 3), Fort Valley, GA., August 6, 1998.
PB98-964008REB 99-03 PC A07/MF A02

EPA 541-R98-112
Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE) Operable Unit 5, Paducah, KY., August 10, 1998.
PB98-964025REB 99-03 PC A07/MF A02

EPA 541-R98-113
Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE), Operable Unit 15, Paducah, KY., August 10, 1998.
PB98-964026REB 99-03 PC A05/MF A01

EPA 541-R98-114
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) D-Area Oil Seepage Basin (631-G), Aiken, SC., August 14, 1998.
PB98-964027REB 99-03 PC A08/MF A02

EPA 541-R98-116
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Silver Bow Creek/Butte Area Silver Bow and Deer Lodge, MT., August 31, 1998.
PB98-963125REB 99-03 PC A04/MF A01

EPA 541-R98-117
Superfund Record of Decision Amendment (EPA Region 1): Tibbetts Road, Barrington, NH., September 28, 1998.
PB98-963126REB 99-03 PC A10/MF A02

EPA 541-R98-118
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Beacon Heights Landfill, Beacon Falls, CT., September 9, 1998.
PB98-963127REB 99-03 PC A03/MF A01

EPA 541-R98-119
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Iron Horse Park, Operable Unit 1, Boston/Marine Wastewater Lagoons, Billerica, MA., October 1, 1997.
PB98-963128REB 99-03 PC A03/MF A01

EPA 541-R98-120
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Loring Air Force Base, Operable Unit 2, Limestone, Maine, September 30, 1998.
PB98-963129REB 99-04 PC A03/MF A01

EPA 541-R98-121
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Davisville Naval Construction Battalion Center, North Kingston, RI., September 30, 1998.
PB98-963130REB 99-03 PC A02/MF A01

EPA 541-R98-122
Superfund Record of Decison (EPA Region 1): Davisville Naval Construction Battalion Center, Operable Unit 4, North Kingstown, RI., September 30, 1998.
PB98-963705REB 99-03 PC A07/MF A02

EPA 541-R98-123
Superfund Record of Decison (EPA Region 1): Davisville Naval Construction Battalion Center, Operable Unit 5, North Kingstown, RI., June 30, 1998.
PB98-963706REB 99-03 PC A06/MF A02

EPA 541-R98-124
Superfund Record of Decision (EPA Region 1): Fletcher's Paint Works and Storage, Milford, NH., September 30, 1998.
PB98-963707REB 99-03 PC A19/MF A04

EPA 541-R98-125.
Superfund Record of Decision (EPA Region 1): Loring Air Force Base, Operable Units 3, 5, 10, and 11, Limestone, ME., August 21, 1998.
PB98-963708REB 99-03 PC A07/MF A02

EPA 541-R98-126
Superfund Record of Decision (EPA Region 1): New Bedford Site, Upper and Lower Harbor Operable Units, New Bedford, MA., September 25, 1998.
PB98-963709REB 99-03 PC A16/MF A03

EPA 541-R98-127
Superfund Record of Decision (EPA Region 1): Burgess Brothers Landfill, Woodford, VT., September 25, 1998.
PB98-963710REB 99-03 PC A08/MF A02

EPA 541-R98-128
Superfund Record of Decision (EPA Region 1): New London Submarine Base, Source Control Operable Unit 10, New London, CT., June 26, 1998.
PB98-963711REB 99-03 PC A03/MF A01

EPA 541-R98-129
Superfund Record of Decision (EPA Region 1): Brunswick Naval Air Station Site 2: Orion Street LF (South), Brunswick, ME., September 29, 1998.
PB98-963712REB 99-03 PC A07/MF A02

EPA 541-R98-130
Superfund Record of Decision (EPA Region 1): Pine Street Canal, Burlington, VT., September 29, 1998.
PB98-963713REB 99-03 PC A15/MF A03

EPA 541-R98-131
Superfund Record of Decision (EPA Region 1): Bennington Municipal Sanitary Landfill, Bennington, VT., September 29, 1998.
PB98-963714REB 99-03 PC A09/MF A02

EPA 541-R98-132
Superfund Record of Decision (EPA Region 1): Otis Air National Guard (USAF), Operable Unit 3, Falmouth, MA., September 30, 1998.
PB98-963715REB 99-03 PC A05/MF A01

EPA 541-R98-133
Superfund Record of Decision (EPA Region 1): Otis Air National Guard (USAF), Operable Unit 5, Falmouth, MA., September 30, 1998.
PB98-963716REB 99-03 PC A15/MF A03

EPA 541-R98-134
Superfund Record of Decision (EPA Region 1): New Hampshire Plating Company, Merrimack, NH., September 28, 1998.
PB98-963717REB 99-03 PC A13/MF A03

EPA 541-R98-135
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): Cosden Chemical Coatings Corp., Beverly, NJ., September 24, 1998.
PB98-963131REB 99-03 PC A03/MF A01

EPA 541-R98-136
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): Reich Farms, Pleasant Plains, NJ., May 26, 1998.
PB98-963132REB 99-03 PC A03/MF A01

EPA 541-R98-137
Superfund Record of Decision (EPA Region 2) Carroll and Dubies Sewage Disposal, Port Jervis, NY., August 24, 1998.
PB98-963133REB 99-03 PC A02/MF A01

EPA 541-R98-138
Superfund Record of Decision (EPA Region 2): Sayreville Landfill, Operable Unit 2, Sayreville, NJ., September 23, 1998.
PB98-963806REB 99-03 PC A08/MF A02

EPA 541-R98-139
Superfund Record of Decision (EPA Region 2): Goldisc Recordings, Inc., Operable Unit 2, Holbrook, NY., September 30, 1998.
PB98-963807REB 99-03 PC A07/MF A02

EPA 541-R98-140
Superfund Record of Decision (EPA Region 2): York Oil Co., Operable Unit 2, Moira, NY., September 29, 1998.
PB98-963808REB 99-03 PC A12/MF A03

EPA 541-R98-141
Superfund Record of Decision (EPA Region 2): Chemsol, Inc., Piscataway, NJ., September 18, 1998.
PB98-963809REB 99-03 PC A99/MF E08

EPA 541-R98-142
Superfund Record of Decision (EPA Region 2): Naval Weapons Station Earle (Site A), Operable Unit 3, Colts Neck, NJ., September 29, 1998.
PB98-963810REB 99-03 PC A06/MF A01

EPA 541-R98-143
Superfund Record of Decision (EPA Region 2): Burnt Fly Bog, Marlboro Township, NJ., September 30, 1998.
PB98-963811REB 99-03 PC A07/MF A02

EPA 541-R98-144
Superfund Record of Decision (EPA Region 2): DuPont Necco Park Site, Operable Unit 1, Niagara County, NY., September 18, 1998.
PB98-963812REB 99-03 PC A18/MF A04

EPA 541-R98-145
Superfund Record of Decision Amendment (EPA Region 3): NCR Corporation (Millsboro Plant), Millsboro, DE., September 29, 1998.
PB98-963134REB 99-03 PC A03/MF A01

EPA 541-R98-146
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): North Penn Area 1 Site, Souderton, PA., October 29, 1997.
PB98-963135REB 99-03 PC A02/MF A01

EPA 541-R98-147
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Whitmoyer Laboratories, Jackson Township, PA., May 12, 1998.
PB98-963136REB 99-03 PC A03/MF A01

EPA 541-R98-148
Superfund Record of Decision (EPA Region 3): US Navy Ships Parts Control Center Site 1: Carter Road Landfill, Mechanicsburg, PA., September 30, 1998.
PB98-963918REB 99-03 PC A04/MF A01

EPA 541-R98-149
Superfund Record of Decision Amendment (EPA Region 4): Hercules 009 Landfill, Brunswick, GA., August 14, 1998.
PB98-963137REB 99-03 PC A02/MF A01

EPA 541-R98-150
Superfund Record of Decision Amendment (EPA Region 4): Cedartown Municipal Landfill, Cedartown, GA., May 11, 1998.
PB98-963138REB 99-03 PC A04/MF A01

EPA 541-R98-151
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Tri-County Landfill/Waste Management Illinois, South Elgin, IL., April 23, 1998.
PB98-963139REB 99-03 PC A03/MF A01

EPA 541-R98-152
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Galen Myers Dump/Drum Salvage, Osceola, IN., September 30, 1998.
PB98-963140REB 99-03 PC A03/MF A01

EPA 541-R98-153
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Kohler company Landfill, Kohler, WI., September 29, 1998.
PB98-963141REB 99-03 PC A02/MF A01

EPA 541-R98-154
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Refuse Hideaway Landfill, Middleton, WI., September 30, 1998.
PB98-963142REB 99-03 PC A03/MF A01

EPA 541-R98-155
Superfund Record of Decision Amendment (EPA Region 5): Woodstock Municipal LF, Woodstock, IL., July 15, 1998.
PB98-963143REB 99-03 PC A07/MF A02

EPA 541-R98-156
Superfund Record of Decision Amendment (EPA Region 5): Allied Chemical and Ironton Coke, Ironton, OH., September 30, 1998.
PB98-963144REB 99-03 PC A03/MF A01

EPA 541-R98-157
Superfund Record of Decision Amendment (EPA Region 5): Moss-American (Kerr-McGee Oil Co.), Milwaukee, WI., September 30, 1998.
PB98-963145REB 99-03 PC A06/MF A01

EPA 541-R98-158
Superfund Record of Decision (EPA Region 5): Continental Steel Corp., Kokomo, IN., September 30, 1998.
PB98-964104REB 99-03 PC A13/MF A03

Superfund Record of Decision (EPA Region 5): H and K Sales (Belding Warehouse), Belding, MI., November 4, 1997.
PB98-964112REB 99-03 PC A04/MF A01

EPA 541-R98-159
Superfund Record of Decision (EPA Region 5): Spartan Chemical Co., Wyoming, MI., April 9, 1998.
PB98-964113REB 99-03 PC A05/MF A01

EPA 541-R98-160
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 6): Vertac, Inc., Jacksonville, AR., January 12, 1998.
PB98-963146REB 99-03 PC A05/MF A01

EPA 541-R98-161
Superfund Record of Decision Amendment (EPA Region 6): Petro-Chemical Systems (Turtle Bayou), Liberty County, TX., April 30, 1998.
PB98-963147REB 99-03 PC A07/MF A02

EPA 541-R98-162
Superfund Record of Decision Amendment (EPA Region 6): Texarkana Wood Preserving Co., Texarkana, TX., March 13, 1998.
PB98-963148REB 99-03 PC A06/MF A01

EPA 541-R98-163
Superfund Record of Decision (EPA Region 6): Madisonville Creosote Works, Inc., Madisonville, LA., August 25, 1998.
PB98-964203REB 99-03 PC A07/MF A02

EPA 541-R98-164
Superfund Record of Decision (EPA Region 6): Rinchem Co., Inc., Albuquerque, NM., September 30, 1998.
PB98-964204REB 99-03 PC A06/MF A01

EPA 541-R98-166
Superfund Record of Decision (EPA Region 7): Weldon Spring Quarry/Plant/Pits (USDOE), St. Charles, MO., September 30, 1998.
PB98-964303REB 99-03 PC A06/MF A01

EPA 541-R98-167
Superfund Record of Decision (EPA Region 7): Iowa Army Ammunition Plant, Operable Unit 1, Middletown, IA., September 29, 1998.
PB98-964304REB 99-03 PC A06/MF A01

EPA 541-R98-168
Superfund Record of Decision (EPA Region 7): Iowa Army Ammunition Plant, Operable Unit 1, Middletown, IA., March 4, 1998.
PB98-964305REB 99-03 PC A06/MF A01

EPA 541-R98-169
Superfund Record of Decision (EPA Region 7): St. Louis Airport/HHS/Futura Coatings Co., St. Louis County, MO., August 27, 1998.
PB98-964306REB 99-03 PC A12/MF A03

EPA 541-R98-170
Superfund Record of Decision (EPA Region 7): 57th and North Broadway Streets, Wichita, KS., June 5, 1998.
PB98-964307REB 99-03 PC A06/MF A01

EPA 541-R98-171
Superfund Record of Decision (EPA Region 7): Bruno Co-Op Association/Associated Properties, Bruno, NE., September 30, 1998.
PB98-964308REB 99-03 PC A06/MF A01

EPA 541-R98-172
Superfund Record of Decision (EPA Region 7): Cornhusker Army Ammunition Plant, Operable Unit 2., Hall County, NE., September 30, 1998.
PB98-964302REB 99-03 PC A03/MF A01

EPA 541-R98-173
Superfund Record of Decision (EPA Region 7): Pester Refinery Co., El Dorado, KS., September 29, 1998.
PB98-964309REB 99-03 PC A04/MF A01

EPA 541-R98-174
Superfund Record of Decision (EPA Region 7): Lake City Army Ammunition Plant (NW Lagoon), Independence, MO., September 29, 1998.
PB98-964310REB 99-03 PC A05/MF A01

EPA 541-R98-175
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Petrochem Recycling Corp./Ekotek Plant, Salt Lake City, UT., December 9, 1997.
PB98-963149REB 99-03 PC A03/MF A01

EPA 541-R98-177
Superfund Record of Decision (EPA Region 8): Portland Cement (Kiln Dust No. 2 and No. 3), Salt Lake City, UT., August 17, 1998.
PB98-964409REB 99-03 PC A06/MF A01

EPA 541-R98-178
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Stringfellow Acid Pits, Riverside, CA., July 9, 1998.
PB98-963151REB 99-03 PC A02/MF A01

EPA 541-R98-179
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Lorentz Barrel and Drum Co., San Jose, CA., April 24, 1998.
PB98-963152REB 99-03 PC A03/MF A01

EPA 541-R98-180
Superfund Record of Decision (EPA Region 9): Indian Bend Washington Area, Operable Unit 3, Scottsdale, AZ., September 30, 1998.
PB98-964511REB 99-03 PC A07/MF A02

EPA 541-R98-181
Superfund Record of Decision (EPA Region 9): Tucson International Airport Area, Operable Unit 3 (AFP 44), Tucson, AZ., September 28, 1998.
PB98-964512REB 99-04 PC A07/MF A02

EPA 541-R98-182
Superfund Record of Decision (EPA Region 10): USArmy Fort Richardson, Operable Unit C, Fort Richardson, AK., September 30, 1998.
PB98-964607REB 99-03 PC A11/MF A03

EPA 541-R98-183
Superfund Record of Decision (EPA Region 10): USNavy Naval Undersea Warfare Engineering Station, Operable Unit 1, Keyport, WA., September 28, 1998.
PB98-964608REB 99-03 PC A11/MF A03

EPA 541-R98-184
Superfund Record of Decision (EPA Region 3): Naval Weapons Station-Yorktown, Operable Units 6 and 7, Yorktown, VA., March 23, 1998.
PB98-963919REB 99-03 PC A06/MF A02

EPA 541-R98-185
Superfund Record of Decision Amendment (EPA Region 10): Eielson Air Force Base, North Star Borough, AK., September 29, 1998.
PB98-963154REB 99-03 PC A03/MF A01

EPA 541-R98-186
Superfund Record of Decision Amendment (EPA Region 10): USAF Eielson Air Force Base, Operable Units 3, 4, and 5, Fairbanks North Star Borough, AK., September 29, 1998.
PB98-963155REB 99-03 PC A04/MF A01

EPA 541-R98-187
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Units 41, 42, 52, and 54, Aiken, SC., September 14, 1998.
PB98-964028REB 99-03 PC A04/MF A01

EPA 541-R98-188
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Waite Park Wells, Waite Park, MN., August 11, 1998.
PB98-963156REB 99-03 PC A03/MF A01

EPA 541-R98-189
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Reilly Tar and Chemical (Indianapolis Plant), Indianapolis, IN., October 6, 1997.
PB98-963157REB 99-03 PC A03/MF A01

EPA 541-R98-190
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), F-Area Retention Basin (281-3F), Aiken, S.C., September 4, 1998.
PB98-964029REB 99-04 PC A07/MF A02

OSWER-9200.0-29A
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PB99-963217REB 99-03 PC A05/MF A01

OSWER-9200.1-17P
Focus Areas for Headquarters Support for Regional Decision Making.
PB99-963228REB 99-04 PC A03/MF A01

OSWER-9200.1-25P
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PB98-963255REB 99-01 PC A01/MF A01

OSWER-9200.1-29FS-P
Superfund Cleanup at Hazardous Waste Sites.
PB99-963206REB 99-03 PC A03/MF A01

OSWER-9200.1-29P
Relocation of Residents Affected by Superfund Sites.
PB99-963212REB 99-01 PC A01/MF A01

OSWER-9200.4-17P
Use of Monitored Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tank Sites.
PB99-963315REB 99-03 PC A04/MF A01

OSWER-9200.4-29P
Proposed TSCA Section 403 Soil Lead Hazard and OSWER's Lead-in Soils Policy.
PB99-963211REB 99-01 PC A01/MF A01

OSWER-9200.4-32P
Y2K Preparedness at Superfund Sites.
PB99-963221REB 99-03 PC A02/MF A01

OSWER-9200.4-33
Use of Site-Specific Land Disposal Restriction Treatability Variances Under 40 CFR 286.44(h) During Cleanups.
PB99-963317REB 99-03 PC A02/MF A01

OSWER-9200.5-164
Yampa River Valley Sub-Area Contingency Plan.
PB99-963402REB 99-01 PC A11/MF A03

OSWER-9200.5-165
Yampa River Valley Sub-Area Emergency Response Action Plan.
PB99-963403REB 99-01 PC A15/MF A03

OSWER-9203.1-17A
Common Contaminants Found at Superfund Sites.
PB98-963217REB 99-01 PC A08/MF A02

OSWER-9230.0-81
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PB96-963267REB 99-03 PC A03/MF A01

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PB99-963303REB 99-03 PC A03/MF A01

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PB99-963302REB 99-03 PC A01/MF A01

OSWER-9285.9-31D
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PB99-963225REB 99-04 PC A06/MF A01

OSWER-9295.5-02
Implementation of EPA/FEMA MOU on CERCLA Relocations.
PB99-963231REB 99-04 PC A03/MF A01

OSWER-9320.8-01FS
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PB98-963326REB 99-01 PC A02/MF A01

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PB99-963220REB 99-03 PC A01/MF A01

OSWER-9355.0-70
Updating Remedy Decisions at Select Superfund Sites. Summary Report FY 1996 and FY 1997.
PB98-963304REB 99-01 PC A06/MF A01

OSWER-9355.0-71P
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PB98-963305REB 99-04 PC A02/MF A01

OSWER-9360.1-02B-P
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PB99-963405REB 99-03 PC A03/MF A01

OSWER-9360.3-20
Response Actions that Affect Residential or Commercial Structures.
PB98-963243REB 99-01 PC A03/MF A01

OSWER-9360.8-15
Region I Inland Area Contingency Plan: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont. Oil Pollution Act of 1990.
PB99-963304REB 99-01 PC A05/MF A01

OSWER-9365.0-1FS
Returning Superfund Sites to Productive Use: Luminous Processors, Athens, Georgia.
PB98-963320REB 99-03 PC A01/MF A01

OSWER-9365.0-3FS
Returning Superfund Sites to Productive Use: Bowers Landfill, Pickaway County, Ohio.
PB98-963322REB 99-03 PC A01/MF A01

OSWER-9375.6-08E
Analysis of State Superfund Programs: 50-State Study, 1998 Update.
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Toxics Release Inventory, 1997. Public Data Release, State Facts Sheets.
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Toxic Chemical Release Inventory Reporting Forms and Instructions. Revised 1998 Version. Section 313 of the Emergency Planning and Community Right-to-Know Act (Title III of the Superfund Amendments and Reauthorization Act of 1986).
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Toxic Release Inventory, 1996. Data Quality Report.
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Toxics Release Inventory, 1996. Public Data Release: Ten Years of Right-to-Know Industry Sector Analyses.
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Toxics Release Inventory, 1997.
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EPA/730/F-98/027
Pesticide Fact Sheet: Fluroxypyr.
PB99-114746REB 99-01 PC A03/MF A01

EPA/730/F-98/028
Pesticide Fact Sheet: Maple Lactone.
PB99-114720REB 99-01 PC A02/MF A01

EPA/730/F-98/029
Pesticide Fact Sheet: 'Bacillus thuringiensis' Subspecies 'israelensis' Strain EG2215.
PB99-115826REB 99-01 PC A03/MF A01

EPA/730/F-98/030
Pesticide Fact Sheet: Canola Oil (October 1998).
PB99-114787REB 99-01 PC A02/MF A01

EPA/730/F-98/031
Pesticide Fact Sheet: Iron (Ferric) Phosphate.
PB99-114803REB 99-01 PC A02/MF A01

EPA/730/F-98/032
Pesticide Fact Sheet: Cinnamaldehyde (October 1998).
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EPA/730/F-98/033
Pesticide Fact Sheet: Potassium dihydrogen Phosphate.
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EPA/730/F-98/034
Pesticide Fact Sheet: Mono- and di-Potassium Salts of Phosphorous Acid.
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EPA/730/F-98/035
Pesticide Fact Sheet: 'Paecilomyces fumosoroseus' Apopka Strain 97.
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Pesticide Fact Sheet: Dihydroazdirachtin (October 1998).
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Pesticide Fact Sheet: 'Beauveria bassiana' Strain ATCC 74040.
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EPA/730/F-98/038
Pesticide Fact Sheet: Trans-11-Tetradecenyl Acetate Technical Pheromone, Cis-11 tetradecenyl Acetate Technical Pheromone (Update, October 1998).
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EPA/730/F-98/039
Pesticide Fact Sheet: Carfentrazone-ethyl.
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EPA/730/N-98/009
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PB99-115834REB 99-01 PC A02/MF A01

EPA/730/N-98/010
Pesticide Registration (PR) Notice 98-10. Notice to Manufacturers, Producers, Formulators and Registrants of Pesticide Products. Notifications, Non-Notifications and Minor Formulation Amendments.
PB99-114266REB 99-01 PC A03/MF A01

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Pesticide Registration (PR) Notice 99-1. Notice to Manufacturers, Producers, Formulators, Registrants and Importers of Pesticide Products. Import of Unregistered Pesticides Intended for Export.
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RED Facts: DCPA.
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EPA/738/F-98/004
RED Facts: Rodenticide Cluster.
PB99-102063REB 99-01 PC A03/MF A01

EPA/738/F-98/005
RED Facts: Dichlobenil.
PB99-106791REB 99-01 PC A03/MF A01

EPA/738/F-98/006
RED Facts: Deet.
PB99-128803REB 99-02 PC A02/MF A01

EPA/738/F-98/007
RED Facts: Triclopyr.
PB99-114241REB 99-01 PC A03/MF A01

EPA/738/F-98/011
RED Facts: Bromoxynil.
PB99-123499REB 99-02 PC A02/MF A01

EPA/738/F-98/013
RED Facts: Propachlor.
PB99-113888REB 99-01 PC A03/MF A01

EPA/738/F-98/015
RED Facts: Aluminum and Magnesium Phosphide.
PB99-123507REB 99-02 PC A03/MF A01

EPA/738/F-98/016
RED Facts: Dicofol.
PB99-123549REB 99-02 PC A02/MF A01

EPA/738/F-98/017
RED Facts: Iprodione.
PB99-123531REB 99-02 PC A02/MF A01

EPA/738/F-98/018
RED Facts: Alachlor.
PB99-123515REB 99-02 PC A03/MF A01

EPA/738/F-98/019
RED Facts: Methomyl.
PB99-128787REB 99-02 PC A02/MF A01

EPA/738/F-98/020
RED Facts: Thiodicarb.
PB99-128779REB 99-02 PC A03/MF A01

EPA/738/F-98/022
RED Facts: Hydramethylnon.
PB99-121204REB 99-02 PC A02/MF A01

EPA/738/F-98-023
RED Facts: 1,3-Dichloropropene.
PB99-128795REB 99-02 PC A02/MF A01

EPA/738/F-98/024
RED Facts: Methylisothiazolinone.
PB99-128811REB 99-02 PC A02/MF A01

EPA/738/F-99/001
RED Facts: Chlorine Gas.
PB99-149510REB 99-03 PC A02/MF A01

EPA/738/F-99/003
RED Facts: Virelure.
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EPA/738/F-99/008
RED Facts: Chlorothalonil.
PB99-157794REB 99-04 PC A03/MF A01

EPA/738/R-98/005
Reregistration Eligibility Decision (RED): DCPA. (Includes RED Facts: DCPA Fact Sheet).
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EPA/738/R-98/007
Reregistration Eligibility Decision (RED): Rodenticide Cluster. (Includes RED Facts: Rodenticide Cluster).
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EPA/738/R-98/008
Reregistration Eligibility Decision (RED): Dichlobenil. (Includes RED Facts: Dichlobenil Fact Sheet).
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EPA/738/R-98/010
Reregistration Eligibility Decision (RED): DEET. (Includes RED Facts: DEET Fact Sheet).
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Reregistration Eligibility Decision (RED): Bromoxynil. (Includes RED Facts: Bromoxynil Fact Sheet).
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EPA/738/R-98/015
Reregistration Eligibility Decision (RED): Propachlor. (Includes RED Facts: Propachlor Fact Sheet).
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Reregistration Eligibility Decision (RED): AL and MG Phosphide. (Includes RED Facts: Aluminum and Magnesium Phosphide Fact Sheet).
PB99-123150REB 99-02 PC A11/MF A03

EPA/738/R-98/018
Reregistration Eligibility Decision (RED): Dicofol. (Includes RED Facts: Dicofol Fact Sheet).
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EPA/738/R-98/019
Reregistration Eligibility Decision (RED): IPRODIONE. (Includes RED Facts: IPRODIONE Fact Sheet).
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EPA/738/R-98/021
Reregistration Eligibility Decision (RED): Methomyl. (Includes RED Facts: Methomyl Fact Sheet).
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EPA/738/R-98/023
Reregistration Eligibility Decision (RED): Hydramethylnon. (Includes RED Facts: Hydramethylnon Fact Sheet).
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EPA/738/R-98/024
Reregistration Eligibility Decision (RED): 1,3-Dichloropropene (Includes RED Facts: 1,3-Dichloropropene.).
PB99-129652REB 99-02 PC A10/MF A03

EPA/738/R-98/025
Reregistration Eligibility Decision (RED): Methylisothiazolinone (Includes RED Facts: Methylisothiazolinone.).
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Reregistration Eligibility Decision (RED): Chlorine Gas. (Includes RED Facts: Chlorine Gas Fact Sheet).
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Reregistration Eligibility Decision (RED): Virelure ((Z)-11-hexadecenal). (Includes RED Facts: Virelure Fact Sheet).
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PB99-151045REB 99-03 PC A02/MF A01

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Biennial Reporting System (BRS) Data: generation and Management of Hazardous Waste, 1997 (Preliminary) (on CD-ROM).
PB99-501488REB 99-03 CD-ROM $480.00

QTRACER: Tracer-Breakthrough Curve Analysis for Karst and Fractured-Rock Acquifer (on CD-ROM).
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Better Assessment Science Integrating Point and Nonpoint Sources. BASINS. Version 2.0. User's Manual.
(EPA/823/B-98/006)
PB99-121295REB 99-02 PC A17/MF A03

TETRA TECH, INC., SAN DIEGO, CA.

Environmental Technology Verification Report: Soil Sampler, Clements Associates, Inc., JMC Environmentalist's Subsoil Probe.
(EPA/600/R-98/091)
PB99-137275REB 99-03 PC A07/MF A02

Environmental Technology Verification Report: Soil Sampler. Geoprobe (Trade Name) Systems, Inc. Large-Bore Soil Sampler.
(EPA/600/R-98/092)
PB99-137283REB 99-03 PC A07/MF A02

Environmental Technology Verification Report: Soil Sampler, Art's Manufacturing and Supply, AMS (Trade Name) DuaL Tube Liner Sampler.
(EPA/600/R-98/093)
PB99-137291REB 99-03 PC A07/MF A02

Environmental Technology Verification Report: Soil Sampler. Simulprobe (Trade Name) Technologies, Inc. Core Barrel Sampler.
(EPA/600/R-98/094)
PB99-137309REB 99-03 PC A07/MF A02

Environmental Technology Verification Report: Passive Soil Gas Sampler. W. L. Gore and Associates, Inc., GORE-SORBER (Trade Name) Screening Survey.
(EPA/600/R-98/095)
PB99-137317REB 99-03 PC A05/MF A01

Environmental Technology Verification Report. Soil Gas Sampler. Quadrel Services, Inc. EMFLUX (Trade Name) Soil Gas Investigation System.
(EPA/600/R-98/096)
PB99-137325REB 99-03 PC A06/MF A01

TEXAS TRANSPORTATION INST., ARLINGTON.

Land Use Compendium.
(DOT-T-99-03, FHWA-PD-99-002)
PB99-129140REB 99-02 PC A11/MF A03

TOXICOLOGY EXCELLENCE FOR RISK ASSESSMENT, CINCINNATI, OH.

Health Risk Assessment/Characterization of the Drinking Water Disinfection Byproduct Chloroform.
(EPA/815/B-98/006)
PB99-111346REB 99-02 PC A05/MF A01

Health Risk Assessment/Characterization of the Drinking Water Disinfection Byproduct Bromate.
(EPA/815/B-98/007)
PB99-111353REB 99-02 PC A05/MF A01

Health Risk Assessment/Characterization of the Drinking Water Disinfection By-Products Chlorine Dioxide and Chlorite.
(EPA/815/B-98/008)
PB99-111361REB 99-02 PC A05/MF A01

TOYOTA TECHNICAL CENTER, U.S.A., INC., ANN ARBOR, MI.

Toyota's Early 2000 Model Year Application for Certification.
PB99-147118REB 99-03 PC A11/MF A03

TUFTS UNIV., MEDFORD, MA. DEPT. OF CHEMISTRY.

Laser Fluorescence EEM Probe for Cone Penetrometer Pollution Analysis.
(EPA/600/R-99/041)
PB99-171605REB 99-04 PC A10/MF A02

UMEA UNIV. (SWEDEN). INST. OF ENVIRONMENTAL CHEMISTRY.

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(EPA/600/A-98/120)
PB99-102204REB 99-01 PC A02/MF A01

UNITED SPACE BOOSTERS, INC., HUNTSVILLE, AL. MATERIALS AND PROCESSES DEPT.

Evaluation of Convergent Spray Technology (Trade Name) Spray Process for Roof Coating Application. Environmental Technology Initiative.
(EPA/600/R-98/129)
PB99-104697REB 99-01 PC A04/MF A01

USDOE ASSISTANT SECRETARY FOR ENERGY EFFICIENCY AND RENEWABLE ENERGY, WASHINGTON, DC (UNITED STATES).

CONF-980523
Aging of polyurethane insulation foamed with second- and third-generation blowing agents.
DE98004290REB 99-02 PC A03/MF A01

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Interoperable, life-cycle tools for assuring building performance: An overview of a commercial building initiative.
DE98051529REB 99-02 PC A03/MF A01

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Model-based chiller energy tracking for performance assurance at a university building.
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Interoperable, life-cycle tools for assuring building performance: An overview of a commercial building initiative.
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PNNL-11880
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CBS-379
Documenting performance metrics in a building life-cycle information system.
DE98059376REB 99-02 PC A02/MF A01

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Documenting performance metrics in a building life-cycle information system.
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BNL-65255
Integrated sediment decontamination for the New York/New Jersey Harbor.
DE98004438REB 99-02 PC A03/MF A01

LBNL-40316
Monitoring, evaluation, reporting, and verification of climate change mitigation projects: Discussion of issues and methodologies and review of existing protocols and guidelines.
DE98052311REB 99-02 PC A10/MF A02

LBNL-41278
Sorbent-coated diffusion denuders for direct measurement of gas/particle partitioning by semi-volatile organic compounds.
DE98056099REB 99-04 PC A04/MF A01

LBNL-41540
Residential energy use in Lithuania: The prospects for energy efficiency.
DE98058251REB 99-04 PC A03/MF A01

LBNL-41546
Healthy building intervention study: Objectives, methods and results of selected environmental measurements.
DE98056104REB 99-04 PC A04/MF A01

LBNL-41781
Effects of pore fluids in the subsurface on ultrasonic wave propagation.
DE98056108REB 99-04 PC A07/MF A02

USDOE OFFICE OF FINANCIAL MANAGEMENT AND CONTROLLER, WASHINGTON, DC (UNITED STATES).

CONF-980131
Field technology evaluations in EPA's Environmental Technology Verification (ETC) Program.
DE98004063REB 99-02 PC A03/MF A01

ORNL/CP-96484
Field technology evaluations in EPA's Environmental Technology Verification (ETC) Program.
DE98004063REB 99-02 PC A03/MF A01

USDOE, WASHINGTON, DC. USDOE ASSISTANT SECRETARY FOR ENERGY EFFICIENCY AND RENEWABLE ENERGY, WASHINGTON, DC.

CONF-971151
Aging of polyurethane foam insulation in simulated refrigerator walls.
DE98000332REB 99-02 PC A03/MF A01

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Aging of polyurethane foam insulation in simulated refrigerator walls.
DE98000332REB 99-02 PC A03/MF A01

VIRGINIA INST. OF MARINE SCIENCE, GLOUCESTER POINT.

VIMS-138
Distribution of Submerged Aquatic Vegetation in the Chesapeake Bay and Tributaries and the Coastal Bays, 1997.
PB99-145419REB 99-03 PC A17

WASHINGTON UNIV., SEATTLE. DEPT. OF CIVIL ENGINEERING.

WATER RESOURCES SER/TR-156
Evaluation of the Effects of Anthropogenic Activity on Streamflow in the Columbia River Basin.
PB99-115479REB 99-01 PC A08/MF A02

WASHINGTON UNIV., ST. LOUIS, MO. CENTER FOR AIR POLLUTION IMPACT AND TREND ANALYSIS.

Local and Regional Contributions of Fine Particulate Mass to Urban Areas in the Mid-Atlantic and Southwestern U.S.
(EPA/600/R-99/036)
PB99-147209REB 99-03 PC A05/MF A01

WATERLOO UNIV. (ONTARIO).

Biotransformation of Gasoline-Contaminated Groundwater under Mixed Electron-Acceptor Conditions.
(EPA/600/R-99/012)
PB99-139677REB 99-04 PC A08/MF A02

WATERLOO UNIV. (ONTARIO). DEPT. OF EARTH SCIENCES.
In-situ Porous Reactive Wall for Treatment of Cr(VI) and Trichloroethylene in Groundwater.
(EPA/600/A-99/025)
PB99-143281REB 99-03 PC A03/MF A01

WISCONSIN UNIV. COOPERATIVE EXTENSION ENVIRONMENTAL RESOURCES CENTER, LANCASTER.
EPA/USDA Partnership to Support Community-Based Education.
(EPA/910/R-98/008)
PB99-143232REB 99-03 PC A04/MF A01

WISCONSIN UNIV.-MADISON.
Addendum to Draft Drinking Water Criteria Document for 'Cryptosporidium'.
(EPA/815/B-98/011)
PB99-111395REB 99-02 PC A08/MF A02

WISCONSIN UNIV.-MADISON. DEPT. OF BOTANY.
Gas Chromatographic Techniques for the Measurement of Isoprene in Air.
(EPA/600/A-99/014)
PB99-133704REB 99-03 PC A04/MF A01

PERSONAL AUTHOR INDEX

This index is arranged by personal author's last name, report title, and NTIS order number. As many as five authors may be included for each report; all are listed in this index.

SAMPLE ENTRY

Author Name	**BLOOMQUIST, D., DIAMOND, G., ODEN, M., RUTH, B., TIA, M.**
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

PERSONAL AUTHOR INDEX

ABBOTT, J. A.
Emissions of Polynuclear Aromatic Hydrocarbons from the Open Burning of Household Waste in Barrels.
PB99-102238REB 99-01 PC A03/MF A01

ADAMS, J. R.
SCOS97 Radiocarbon Experiment.
PB99-105652REB 99-01 PC A03/MF A01

AKBARI, H.
Measured energy savings of light colored roofs: Results from three California demonstration sites.
DE98057493REB 99-04 PC A03/MF A01

AKLAND, G.
Pesticide Exposure and Health Effects in Young Children, Part 1. Pesticide Data.
PB99-127912REB 99-03 PC A05/MF A01

ALBRIGHT, J.
Regulatory Impact Analysis for the Interim Enhanced Surface Water Treatment Rule.
PB99-111312REB 99-02 PC A12/MF A03

Regulatory Impact Analysis for the Stage 1 Disinfectants/ Disinfection Byproducts Rule.
PB99-111304REB 99-02 PC A14/MF A03

ALDEN, R. W.
Ambient Toxicity Testing in Chesapeake Bay. Year 6 Report.
PB99-115487REB 99-01 PC A10/MF A02

ALDOUS, K. M.
Emissions of Polynuclear Aromatic Hydrocarbons from the Open Burning of Household Waste in Barrels.
PB99-102238REB 99-01 PC A03/MF A01

ALLAMAND, J.
Building a Green Future: A Case Study of EPA Region 10's Building Renovations.
PB99-169120REB 99-04 PC A02/MF A01

ALPERIN, E. S.
Innovative Site Remediation Technology: Design and Application. Volume 5. Thermal Desorption.
PB99-109027REB 99-01 PC A15/MF A03

ALVARADO, E.
Carbon Emissions from Spring 1998 Fires in Tropical Mexico.
PB99-128399REB 99-02 PC A03/MF A01

AMY, G.
Empirically Based Model for Predicting Chlorination and Ozonation By-Products: Trihalomethanes, Haloacetic Acids, Chloral Hydrate, and Bromate.
PB99-145526REB 99-03 PC A10/MF A02

ANDERSON, C.
Forest Ecosystem Indicators: Monitoring, Assessment, Prediction (FEIMAP).
PB99-148611REB 99-03 PC A07/MF A02

ANDERSON, C. B.
Guideline for Developing an Ozone Forecasting Program.
PB99-168874REB 99-04 PC A06/MF A02

ANDERSON, R. D.
Ambient Toxicity Testing in Chesapeake Bay. Year 6 Report.
PB99-115487REB 99-01 PC A10/MF A02

ANDREWS, K.
Evaluation and Application of Methods for Estimating Children's Exposure to Persistent Organic Pollutants in Multiple Media. Volume 1. Final Report.
PB99-134934REB 99-03 PC A08/MF A02

Evaluation and Application of Methods for Estimating Children's Exposure to Persistent Organic Pollutants in Multiple Media. Volume 2. Appendices A-C.
PB99-134942REB 99-03 PC A10/MF A02

Evaluation and Application of Methods for Estimating Children's Exposure to Persistent Organic Pollutants in Multiple Media. Volume 3. Appendices D-T.
PB99-134959REB 99-03 PC A09/MF A02

ANKLEY, G.
Research Plan for Endocrine Disruptors.
PB99-127086REB 99-02 PC A05/MF A01

ANTLEY, B.
Characterization of Organic Emissions from Hazardous Waste Incineration Processes under the New EPA Draft Risk Burn Guidance: Measurement Issues.
PB99-163123REB 99-04 PC A03/MF A01

ARNOLD, J. R.
Hazard Identification in Carcinogen Risk Analysis: An Integrative Approach. Part 3. An Application of the Methodology: Formaldehyde in Air.
PB99-139065REB 99-03 PC A16/MF A03

ARNTS, R. R.
Gas Chromatographic Techniques for the Measurement of Isoprene in Air.
PB99-133704REB 99-03 PC A04/MF A01

ARRIAGA, J. L.
Paso del Norte Ozone Study VOC Measurements, 1996.
PB99-171480REB 99-04 PC A03/MF A01

ARRIAGA, J. L. C.
Hydrocarbon and Carbonyl Ozone Precursors in Mexico City Ambient Air.
PB99-151326REB 99-03 PC A02/MF A01

AUSTIN, H. K.
Report on the Shrimp Virus Peer Review and Risk Assessment Workshop: Developing a Qualitative Ecological Risk Assessment. Held in Arlington, Virginia on January 7-8, 1998.
PB99-155293REB 99-04 PC A20/MF A04

AYYOUBI, A.
Stormwater Treatment at Critical Areas: The Multi-Chambered Treatment Train (MCTT).
PB99-143224REB 99-03 PC A23/MF A04

BAHNER, M.
Characterization of Styrene Emissions from Various Resin Application Equipment and Formulation in the Open Contact Molding Process.
PB99-146342REB 99-03 PC A02/MF A01

BAIRD, T. U.
Highlights: 1998 Department of Defense Survey of Health Related Behaviors among Military Personnel.
PB99-132078REB 99-03 PC A09/MF A02

BAKER, R. A.
Methane Emissions from the U.S. Petroleum Industry.
PB99-128159REB 99-02 PC A09/MF A02

BAKHTEYAR, H.
Mercury Sorption Mechanisms and Control by Calcium-Based Sorbents.
PB99-146334REB 99-03 PC A03/MF A01

BANERJEE, S.
Third-Generation Foam Blowing Agents for Foam Insulation.
PB99-122095REB 99-02 PC A09/MF A02

BARBARO, J. R.
Biotransformation of Gasoline-Contaminated Groundwater under Mixed Electron-Acceptor Conditions.
PB99-139677REB 99-04 PC A08/MF A02

BARIAZ, M. A.
Development of Alternative Solid Waste Managment Options with Economic and Environmental Considerations: A Mathematical Modeling Approach.
PB99-126492REB 99-02 PC A02/MF A01

BARKER, J. F.
Biotransformation of Gasoline-Contaminated Groundwater under Mixed Electron-Acceptor Conditions.
PB99-139677REB 99-04 PC A08/MF A02

BARRON, P.
Stormwater Treatment at Critical Areas: The Multi-Chambered Treatment Train (MCTT).
PB99-143224REB 99-03 PC A23/MF A04

BARSANTI, J.
Sewer and Tank Sediment Flushing: Case Studies.
PB99-127839REB 99-02 PC A06/MF A01

BARTLETT, C.
Site Characterization of Area 6, Dover Air Force Base, in Support of Natural Attenuation and Enhanced Anaerobic Bioremediation Projects. Remediation Technologies Development Forum, Bioremediation of Chlorinated Solvents Work Group.
PB99-166456REB 99-04 PC A12/MF A03

BASKIN, E.
Evaluation of Ozone-Friendly Hydrofluoropropane-Based Zeotropic Refrigerant Mixtures in a Lorenz-Meutzner Refrigerator/Freezer.
PB99-146375REB 99-03 PC A03/MF A01

BASKIR, J.
Characterization of Styrene Emissions from Various Resin Application Equipment and Formulation in the Open Contact Molding Process.
PB99-146342REB 99-03 PC A02/MF A01

BASKIR, J. N.
Application of Pollution Prevention Techniques to Reduce Indoor Air Emissions from Engineered Wood Products.
PB99-118309REB 99-02 PC A10/MF A03

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PB99-118374REB 99-02 PC A25/MF A04

BASKIR, K. N.
Personal Computer Guide for Selecting Alternative Coatings for Metal Parts and Products Painting.
PB99-146359REB 99-03 PC A03/MF A01

BASS, R.
Landfill Gas Emissions Model, Version 2.0. User's Manual.
PB98-150352REB 99-01 PC A07/MF A02

BATHIJA, A.
Health Risks to Fetuses, Infants, and Children (Final Stage 1 D/DBP Rule).
PB99-111379REB 99-02 PC A05/MF A01

BAYER, C.
Controlling Sources of Indoor Air Pollution through Pollution Prevention.
PB99-129801REB 99-02 PC A03/MF A01

BAYLISS, D. L.
Carcinogenic Effects of Benzene: An Update.
PB99-101420REB 99-01 PC A06/MF A01

BAYNE, C.
Field technology evaluations in EPA's Environmental Technology Verification (ETC) Program.
DE98004063REB 99-02 PC A03/MF A01

BAYOGLU, E.
Evaluation of Ozone-Friendly Hydrofluoropropane-Based Zeotropic Refrigerant Mixtures in a Lorenz-Meutzner Refrigerator/Freezer.
PB99-146375REB 99-03 PC A03/MF A01

BECKER, J.
NOx Abatement by Fuel-Lean Reburning: Laboratory Combustor and Pilot-Scale Package Boiler Results.
PB99-102162REB 99-01 PC A03/MF A01

BEEDLOW, P.
Forest Ecosystem Indicators: Monitoring, Assessment, Prediction (FEIMAP).
PB99-148611REB 99-03 PC A07/MF A02

BENDER, J.
Cost and Technology Document for the Interim Enhanced Surface Water Treatment Rule.
PB99-111494REB 99-02 PC A06/MF A01

Regulatory Impact Analysis for the Interim Enhanced Surface Water Treatment Rule.
PB99-111312REB 99-02 PC A12/MF A03

BENDER, S. F.
Environmental Technology Verification Report. Field Portable Gas Chromatograph/Mass Spectrometer. Viking Instruments Corporation SpectraTrak (Trademark) 672.
ADA364012REB 99-04 PC A07/MF A02

BENJEY, B.
Urban Air Quality Simulation with Community Multi-Scale Air Quality (CMAQ) Modeling System.
PB99-102246REB 99-01 PC A02/MF A01

BENNETT, P.
Environmental Technology Verification Report: Ultrasonic Aqueous Cleaning Systems, Smart Sonic Corporation, SMarT SONIC (Trade Name).
PB99-143380REB 99-03 PC A04/MF A01

BENNETT, T.
In-situ Porous Reactive Wall for Treatment of Cr(VI) and Trichloroethylene in Groundwater.
PB99-143281REB 99-03 PC A03/MF A01

BERGER, P.
Cryptosporidium and 'Giardia' Occurrence Assessment for the Interim Enhanced Surface Water Treatment Rule.
PB99-111338REB 99-02 PC A10/MF A02

Regulatory Impact Analysis for the Interim Enhanced Surface Water Treatment Rule.
PB99-111312REB 99-02 PC A12/MF A03

BIAZAR, A.
Photochemical Plume-in-Grid Simulations of Major Point Sources in the Community Multiscale Air Quality (CMAQ) Modeling System.
PB99-121451REB 99-02 PC A02/MF A01

BIDWELL, K.
Snapshots of Environmental Cost Accounting.
PB99-134264REB 99-03 PC A10/MF A02

BINKOWSKI, F.
Urban Air Quality Simulation with Community Multi-Scale Air Quality (CMAQ) Modeling System.
PB99-102246REB 99-01 PC A02/MF A01

BIRCH, M. E.
Analysis of Carbonaceous Aerosols Using the Thermal Optical Transmittance and Thermal Optical Reflectance Methods.
PB99-171597REB 99-04 PC A03/MF A01

BIRNBAUM, R.
National Air Quality and Emissions Trends Report, 1997.
PB99-143059REB 99-03 PC A11/MF A03

BISSONETTE, E.
Cost and Technology Document for the Interim Enhanced Surface Water Treatment Rule.
PB99-111494REB 99-02 PC A06/MF A01

Regulatory Impact Analysis for the Interim Enhanced Surface Water Treatment Rule.
PB99-111312REB 99-02 PC A12/MF A03

BLACK, R. J.
Improving the Environmental Safety of Munitions Disposal by OB and OD.
ADA363488REB 99-04 PC A03/MF A01

BLACKARD, A.
Landfill Gas Emissions Model, Version 2.0. User's Manual.
PB98-150352REB 99-01 PC A07/MF A02

BLOWES, D. W.
In-situ Porous Reactive Wall for Treatment of Cr(VI) and Trichloroethylene in Groundwater.
PB99-143281REB 99-03 PC A03/MF A01

Permeable Reactive Barrier Technologies for Contaminant Remediation.
PB99-105702REB 99-01 PC A07/MF A02

BOESE, B.
Effects of Habitat Alteration by Estuarine Stressors on Ecological Resources of Pacific Northwest Estuaries. Research Plan.
PB99-147191REB 99-03 PC A14/MF A03

BOMAN, G. K.
Application of the Electromagnetic Borehole Flowmeter.
PB99-100018REB 99-02 PC A05/MF A01

BORIO, R. W.
Demonstration of Natural Gas Rebum for NOx Emissions Reduction at Ohio Edison Company's Cyclone-Fired Niles Plant Unit No. 1.
PB99-156408REB 99-04 PC A13/MF A03

BORNICK, R. M.
Use of Pyrolysis/GC/MS to Characterize the Organic Quality of Surface Waters. Special Application to Drinking Water Treatment and the Formation of Disinfection Byproducts.
PB99-139552REB 99-03 PC A12/MF A03

BORUM, D.
Occurrence Assessment for Disinfectants and Disinfection Byproducts in Public Drinking Water Supplies.
PB99-111320REB 99-02 PC A10/MF A03

BOTTRELL, D.
Field technology evaluations in EPA's Environmental Technology Verification (ETC) Program.
DE98004063REB 99-02 PC A03/MF A01

BOWSER, J. J.
Lower Rio Grande Valley Transboundary Air Pollution Project (TAPP).
PB99-146938REB 99-04 PC A12/MF A03

BRAATNE, J. H.
Biological Aspects of Hybrid Poplar Cultivation on Floodplains in Western North America: A Review.
PB99-167330REB 99-04 PC A05/MF A01

BRACKNEY, L.
Evaluation and Application of Methods for Estimating Children's Exposure to Persistent Organic Pollutants in Multiple Media. Volume 1. Final Report.
PB99-134934REB 99-03 PC A08/MF A02

Evaluation and Application of Methods for Estimating Children's Exposure to Persistent Organic Pollutants in Multiple Media. Volume 2. Appendices A-C.
PB99-134942REB 99-03 PC A10/MF A02

Evaluation and Application of Methods for Estimating Children's Exposure to Persistent Organic Pollutants in Multiple Media. Volume 3. Appendices D-T.
PB99-134959REB 99-03 PC A09/MF A02

BRAY, R. M.
Highlights: 1998 Department of Defense Survey of Health Related Behaviors among Military Personnel.
PB99-132078REB 99-03 PC A09/MF A02

BREEN, B.
Ensuring Potentially Responsible Party Compliance with CERCLA Obligations.
PB99-151078REB 99-03 PC A03/MF A01

Guidance on Administrative Response Cost Settlements under Section 122(h) of CERCLA and Administrative Cashout Settlements with Peripheral Parties under Section 122(h) of CERCLA and Attorney General Authority.
PB99-156242REB 99-04 PC A06/MF A01

Inclusion of Contribution Waiver by Private Parties in CERCLA Administrative and Judicial Settlements.
PB99-151052REB 99-03 PC A03/MF A01

Interim Final Guidance on Disbursement of Funds from EPA Special Accounts to CERCLA Potentially Responsible Parties.
PB99-151060REB 99-03 PC A03/MF A01

BRILL, E. D.
Development of Alternative Solid Waste Managment Options with Economic and Environmental Considerations: A Mathematical Modeling Approach.
PB99-126492REB 99-02 PC A02/MF A01

BRNA, T. G.
Air Pollution Control Technologies Performance Verification: A Permit Tool.
PB99-137416REB 99-03 PC A03/MF A01

Baghouse Filtration Products Verification.
PB99-102196REB 99-01 PC A06/MF A01

Environmental Technology Verification: Add-on NOx Controls.
PB99-142937REB 99-03 PC A03/MF A01

BROBST, R. B.
US 40CFR503 Regulation's Impact on Human Health and Environment and Its Significance to POTWS.
PB99-104036REB 99-01 PC A03/MF A01

BROCKMANN, C.
Controlling Sources of Indoor Air Pollution through Pollution Prevention.
PB99-129801REB 99-02 PC A03/MF A01

BROCKMANN, C. M.
Application of Pollution Prevention Techniques to Reduce Indoor Air Emissions from Engineered Wood Products.
PB99-118309REB 99-02 PC A10/MF A03

BRODE, R.
AERMOD: Model Formulation and Evaluation Results.
PB99-142929REB 99-03 PC A04/MF A01

BROPHY, J.
Oxygenates in Water: Critical Information and Research Needs.
PB99-121188REB 99-02 PC A06/MF A01

BROWN, E.
Development of On-Road Emission Factors Heavy-Duty Diesel Vehicles Using a Continuous Sampling System.
PB99-106296REB 99-01 PC A03/MF A01

BROWN, K. G.
Hazard Identification in Carcinogen Risk Analysis: An Integrative Approach.
PB99-139057REB 99-03 PC A12/MF A03

Hazard Identification in Carcinogen Risk Analysis: An Integrative Approach. Part 3. An Application of the Methodology: Formaldehyde in Air.
PB99-139065REB 99-03 PC A16/MF A03

BROWN, S.
Comparison of the Sink Characteristics of Three Full-Scale Environmental Chambers.
PB99-171506REB 99-04 PC A02/MF A01

Forest Ecosystem Indicators: Monitoring, Assessment, Prediction (FEIMAP).
PB99-148611REB 99-03 PC A07/MF A02

BRUCE, R. M.
Toxicological Review of Naphthalene (CAS No. 91-20-3) in Support of Summary Information on the Integrated Risk Information System (IRIS).
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BRUSSEAU, M. L.
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PB99-144651REB 99-03 PC A03/MF A01

VENKATRAM, A.
AERMOD: Model Formulation and Evaluation Results.
PB99-142929REB 99-03 PC A04/MF A01

VESCIO, N.
Investigation of Remote Sensing Devices for Chemical Characterization of Motor Vehicle Exhaust.
PB99-127987REB 99-02 PC A04/MF A01

VIGON, B.
Life-Cycle Impact Assessment Demonstration for the GBU-24.
PB99-102659REB 99-03 PC A06/MF A01

VINCUS, A. A.
Highlights: 1998 Department of Defense Survey of Health Related Behaviors among Military Personnel.
PB99-132078REB 99-03 PC A09/MF A02

VINE, E.
Monitoring evaluation, reporting and verification of climate change mitigation projects.
DE98056102REB 99-04 PC A03/MF A01

Monitoring, evaluation, reporting, and verification of climate change mitigation projects: Discussion of issues and methodologies and review of existing protocols and guidelines.
DE98052311REB 99-02 PC A10/MF A02

Residential energy use in Lithuania: The prospects for energy efficiency.
DE98058251REB 99-04 PC A03/MF A01

VOGAN, J. L.
Permeable Reactive Barrier Technologies for Contaminant Remediation.
PB99-105702REB 99-01 PC A07/MF A02

WALKER, J. A.
Highlights: 1998 Department of Defense Survey of Health Related Behaviors among Military Personnel.
PB99-132078REB 99-03 PC A09/MF A02

WANG, C.
Empirically Based Model for Predicting Chlorination and Ozonation By-Products: Trihalomethanes, Haloacetic Acids, Chloral Hydrate, and Bromate.
PB99-145526REB 99-03 PC A10/MF A02

WANG, P. F.
Three Dimensional Hydrodynamic Model for Stratified Flows in Lakes and Estuaries (HYDRO3D): Theory, User Guidance, and Applications for Superfund and Ecological Risk Assessments.
PB99-169898REB 99-04 PC A12/MF A03

WANG, X.
Field Test of Cyclodextrin for Enhanced In-situ Flushing of Multiple-Component Immiscible Organic Liquid Contamination: Project Overview and Intial Results.
PB99-121428REB 99-02 PC A04/MF A01

WARD, T. E.
Improving the Environmental Safety of Munitions Disposal by OB and OD.
ADA363488REB 99-04 PC A03/MF A01

WARNER, M. A.
Municipal Solid Waste Landfills. Volume 2. Summary of Requirements for Section 111(d) State Plans for Implementing the Municipal Solid Waste Landfills Emission Guidelines.
PB99-117434REB 99-01 PC A15/MF A03

WATRUD, L. S.
Genetically Engineered Plants in the Environment:Applications and Issues.
PB99-163099REB 99-04 PC A04/MF A01

WATSON, J. G.
Guidance for the Network Design and Optimum Site Exposure for PM2.5 and PM10.
PB99-157513REB 99-04 PC A07/MF A02

Guidance for Using Continuous Monitors in PM2.5 Monitoring Networks.
PB99-121600REB 99-02 PC A10/MF A02

WAYLAND, M.
Guideline on Data Handling Conventions for the PM NAAQS.
PB99-149023REB 99-03 PC A05/MF A01

WEAVER, F. J.
Aging of polyurethane foam insulation in simulated refrigerator walls.
DE98000332REB 99-02 PC A03/MF A01

Aging of polyurethane insulation foamed with second- and third-generation blowing agents.
DE98004290REB 99-02 PC A03/MF A01

WEIL, J.
AERMOD: Model Formulation and Evaluation Results.
PB99-142929REB 99-03 PC A04/MF A01

WELLER, D. E.
Nanticoke Wetland Assessment Study.
PB99-148629REB 99-03 PC A03/MF A01

WELSH, H. H.
Strategy and Design of the Effectiveness Monitoring Program for the Northwest Forest Plan.
PB99-134686REB 99-03 PC A09/MF A02

WENDT, J. O. L.
Fine Particle Emissions from Residual Fuel Oil Combustion: Characterization and Mechanisms of Formation.
PB99-163131REB 99-04 PC A04/MF A01

Multi-Component Coagulation and Condensation of Toxic Metals in Combustors.
PB99-102154REB 99-01 PC A03/MF A01

NOx Abatement by Fuel-Lean Reburning: Laboratory Combustor and Pilot-Scale Package Boiler Results.
PB99-102162REB 99-01 PC A03/MF A01

Physical and Chemical Characterization of Fine Particulate from the Combustion of Residual Fuel Oil.
PB99-121477REB 99-02 PC A03/MF A01

WERNER, A. S.
Flow Reference Method Testing and Analysis: Field Test Plan. Texas Utilities Decordova Steam Electric Station.
PB99-150336REB 99-04 PC A13/MF A03

WHEELER, W.
Cost Effectiveness Analysis of Effluent Limitations Guidelines and Standards for the Centralized Waste Treament Industry.
PB99-130759REB 99-02 PC A05/MF A01

Economic Analysis of Effluent Limitation Guidelines and Standards for the Centralized Waste Treatment Industry.
PB99-130742REB 99-02 PC A17/MF A03

WHEELESS, S. C.
Highlights: 1998 Department of Defense Survey of Health Related Behaviors among Military Personnel.
PB99-132078REB 99-03 PC A09/MF A02

WHIGHAM, D. F.
Nanticoke Wetland Assessment Study.
PB99-148629REB 99-03 PC A03/MF A01

WHITAKER, D.
Controlling Sources of Indoor Air Pollution through Pollution Prevention.
PB99-129801REB 99-02 PC A03/MF A01

WHITAKER, D. A.
Application of Pollution Prevention Techniques to Reduce Indoor Air Emissions from Engineered Wood Products.
PB99-118309REB 99-02 PC A10/MF A03

WHITE, A. L.
Snapshots of Environmental Cost Accounting.
PB99-134264REB 99-03 PC A10/MF A02

WHITE, C.
Landfill Gas Emissions Model, Version 2.0. User's Manual.
PB98-150352REB 99-01 PC A07/MF A02

WHITE, D.
Heirarachial Framework for Conserving Biodiversity.
PB99-121444REB 99-02 PC A05/MF A01

WHITE, L. D.
Electronic (Fenceless) Control of Livestock.
PB99-140014REB 99-03 PC A04/MF A01

WHITING, J. R.
Distribution of Submerged Aquatic Vegetation in the Chesapeake Bay and Tributaries and the Coastal Bays, 1997.
PB99-145419REB 99-03 PC A17

WIDMER, F.
Fate and Transport of Recombinant 'Sinorhizobium meliloti' with Enhanced N2-Fixing Abilities during a Multiyear Field Trial with Transgenic Alfalfa.
PB99-128381REB 99-02 PC A03/MF A01

WIEDEMAN, A.
Chesapeake Bay Watershed Model Application and Calculation of Nutrient and Sediment Loadings. Appendix F: Point Source Loadings.
PB99-115511REB 99-01 PC A99/MF A06

WIEDEMEIER, T. H.
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Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water.
PB99-130023REB 99-02 PC A13/MF A03

WIENER, R. W.
Design and Performancee of a Low Flowrate Inlet.
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WIGINGTON, P. J.
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Use of Mono- to Tri-Chlorinated Dibenzodioxin (CDD) and Dibenzofuran (CDF) Congeners/Homologues as Indicators of Tetra- to Octa-CDD/CDF Emissions from Municipal Waste and Waste/Coal Combustion.
PB99-102204REB 99-01 PC A02/MF A01

WILCOX, D. J.
Distribution of Submerged Aquatic Vegetation in the Chesapeake Bay and Tributaries and the Coastal Bays, 1997.
PB99-145419REB 99-03 PC A17

WILKES, K. E.
Aging of polyurethane foam insulation in simulated refrigerator walls.
DE98000332REB 99-02 PC A03/MF A01

Aging of polyurethane insulation foamed with second- and third-generation blowing agents.
DE98004290REB 99-02 PC A03/MF A01

WILLIAMS, E. E.
Laboratory Evaluation of Six New/Modified Portable X-ray Fluorescence Spectrometers for the Measurement of Lead in Characterized Pain Films and Research Material Boards. Volume 2. Appendices.
PB99-162489REB 99-04 PC A99/MF A06

Laboratory Evaluation of Six New/Modified Portable X-ray Fluorescence Spectrometers for the Measurement of Lead in Characterized Paint Films and Research Material Boards. Volume 1. Technical Report.
PB99-162471REB 99-04 PC A16/MF A03

WILSON, B. H.
Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water.
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WILSON, J. T.
Exposure and Risk Assessment at Petroleum Contamination Site with Multimedia Contaminant Fate, Transport, and Exposure Model (MMSOILS).
PB99-105645REB 99-01 PC A02/MF A01

Hydrocarbon and MTBE Removal Rates during Natural Attenuation Application.
PB99-175440REB 99-04 PC A02/MF A01

Performance Monitoring for Natural Attenuation of Contaminants in Aquifers.
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Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water.
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WILSON, M.
Cryptosporidium and 'Giardia' Occurrence Assessment for the Interim Enhanced Surface Water Treatment Rule.
PB99-111338REB 99-02 PC A10/MF A02

WILSON, R.
AERMOD: Model Formulation and Evaluation Results.
PB99-142929REB 99-03 PC A04/MF A01

WINBERRY, J.
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WITT, M. E.
Groundwater Geochemistry of Area 6, Dover Air Force Base, Dover, Delaware.
PB99-162430REB 99-04 PC A20/MF A04

WOOD, A. L.
Field Test of Cyclodextrin for Enhanced In-situ Flushing of Multiple-Component Immiscible Organic Liquid Contamination: Project Overview and Intial Results.
PB99-121428REB 99-02 PC A04/MF A01

WORKMAN, R.
Characterization of Organic Emissions from Hazardous Waste Incineration Processes under the New EPA Draft Risk Burn Guidance: Measurement Issues.
PB99-163123REB 99-04 PC A03/MF A01

WRIGHT, R.
Characterization of Styrene Emissions from Various Resin Application Equipment and Formulation in the Open Contact Molding Process.
PB99-146342REB 99-03 PC A02/MF A01

WU, Y.
Photochemical Plume-in-Grid Simulations of Major Point Sources in the Community Multiscale Air Quality (CMAQ) Modeling System.
PB99-121451REB 99-02 PC A02/MF A01

YAKUSHIN, E.
Application of Multifuel Reburn for NOx Control on a 300 MWe Boiler in Ukraine.
PB99-146391REB 99-03 PC A03/MF A01

YARBROUGH, D. W.
Aging of polyurethane foam insulation in simulated refrigerator walls.
DE98000332REB 99-02 PC A03/MF A01

YEH, G. T.
3DHYDROGEOCHEM: A 3-Dimensional Model of Density-Dependent Subsurface Flow and Thermal Multispecies-Multicomponent HYDROGEOCHEMical Transport.
PB99-150419REB 99-04 PC A09/MF A02

YOLANDA, F. G.
Hydrocarbon and Carbonyl Ozone Precursors in Mexico City Ambient Air.
PB99-151326REB 99-03 PC A02/MF A01

YOUNG, D. R.
Delineation of Pacific Northwest SAVs from Aerial Photography: Natural Color or Color Infrared Film.
PB99-163107REB 99-04 PC A03/MF A01

YOUNG, J.
Urban Air Quality Simulation with Community Multi-Scale Air Quality (CMAQ) Modeling System.
PB99-102246REB 99-01 PC A02/MF A01

YOUNG, S. C.
Application of the Electromagnetic Borehole Flowmeter.
PB99-100018REB 99-02 PC A05/MF A01

YURK, J.
Characterization of Organic Emissions from Hazardous Waste Incineration Processes under the New EPA Draft Risk Burn Guidance: Measurement Issues.
PB99-163123REB 99-04 PC A03/MF A01

ZAKIKHANI, M.
Three Dimensional Hydrodynamic Model for Stratified Flows in Lakes and Estuaries (HYDRO3D): Theory, User Guidance, and Applications for Superfund and Ecological Risk Assessments.
PB99-169898REB 99-04 PC A12/MF A03

ZEEMAN, M. G.
Using Reproductuve and Developmental Effects Data in Ecological Risk Assessments for Oviparous Vertebrates Exposed To Contaminants.
PB99-121436REB 99-02 PC A05/MF A01

ZHANG, J. S.
Comparison of the Sink Characteristics of Three Full-Scale Environmental Chambers.
PB99-171506REB 99-04 PC A02/MF A01

ZHU, H. W.
Empirically Based Model for Predicting Chlorination and Ozonation By-Products: Trihalomethanes, Haloacetic Acids, Chloral Hydrate, and Bromate.
PB99-145526REB 99-03 PC A10/MF A02

ZIEGENFUSS, M. C.
Standard Operating Procedures for Conducting Acute and Chronic Aquatic Toxicity Tests with 'Eurytemora affinis', a Calanoid Copepod.
PB99-115503REB 99-01 PC A05/MF A01

ZWEIDINGER, R.
NERL PM Research Monitoring Platforms: Baltimore, Fresno, and Phoenix. Data Report.
PB99-105660REB 99-01 PC A05/MF A01

CONTRACT/GRANT NUMBER INDEX

Entries in this index list reports produced as a result of research done under specific contract or grant numbers. Entries are sequenced by contract or grant number, corporate author, and NTIS order number.

SAMPLE ENTRY

Contract or Grant Number	**DTFH61-93-C-0060**
Performing Organization	University of Wyoming Research Corp., Laramie
NTIS Order Number/Media Code Price Codes	PB94-100443/REB PC A10/MF A03

CONTRACT/GRANT NUMBER INDEX

5-R01-HL42490
USDOE Office of Energy Research, Washington, DC (United States).
DE98056099REB 99-04 PC A04/MF A01

AC02-76CH00016
USDOE Office of Energy Research, Washington, DC (United States).
DE98004438REB 99-02 PC A03/MF A01

AC03-76SF00098
Environmental Protection Agency, Washington, DC (United States).
DE98056102REB 99-04 PC A03/MF A01
DE98057493REB 99-04 PC A03/MF A01
USDOE Assistant Secretary for Energy Efficiency and Renewable Energy, Washington, DC (United States).
DE98051526REB 99-02 PC A03/MF A01
DE98051529REB 99-02 PC A03/MF A01
USDOE Assistant Secretary for Human Resources and Administration, Washington, DC (United States).
DE98059376REB 99-02 PC A02/MF A01
USDOE Office of Energy Research, Washington, DC (United States).
DE98052311REB 99-02 PC A10/MF A02
DE98056099REB 99-04 PC A04/MF A01
DE98056104REB 99-04 PC A04/MF A01
DE98056108REB 99-04 PC A07/MF A02
DE98058251REB 99-04 PC A03/MF A01

AC05-96OR22464
Environmental Protection Agency, Washington, DC (United States). USDOE Office of Environmental Restoration and Waste Management, Washington, DC (United States).
DE98005924REB 99-02 PC A03/MF A01
USDOE Assistant Secretary for Energy Efficiency and Renewable Energy, Washington, DC (United States).
DE98004290REB 99-02 PC A03/MF A01
USDOE Office of Financial Management and Controller, Washington, DC (United States).
DE98004063REB 99-02 PC A03/MF A01
USDOE, Washington, DC. USDOE Assistant Secretary for Energy Efficiency and Renewable Energy, Washington, DC.
DE98000332REB 99-02 PC A03/MF A01

AC06-76RL01830
USDOE Assistant Secretary for Environment, Safety, and Health, Washington, DC (United States).
DE98054110REB 99-02 PC A05/MF A01

AC36-83CH10093
USDOE Assistant Secretary for Energy Efficiency and Renewable Energy, Washington, DC (United States).
DE98005092REB 99-02 PC A05/MF A01

AFOSR-960010
USDOE Office of Energy Research, Washington, DC (United States).
DE98056108REB 99-04 PC A07/MF A02

EPA-CB993267-03-1
Virginia Inst. of Marine Science, Gloucester Point.
PB99-145419REB 99-03 PC A17

EPA-CB993589010
Maryland Univ., Queenstown. Wye Research and Education Center.
PB99-103970REB 99-01 PC A06/MF A02

EPA-CR-818322
Pennsylvania State Univ., University Park. Dept. of Civil and Environmental Engineering.
PB99-150419REB 99-04 PC A09/MF A02

EPA-CR-821825-011
Notre Dame Univ., IN.
PB99-139552REB 99-03 PC A12/MF A03

EPA-CX824291-01-1
Nevada Univ. System, Reno. Desert Research Inst.
PB99-121600REB 99-02 PC A10/MF A02

EPA-EQ925003-01
NIEHS Center Community Outreach Programs, Seattle, WA.
PB99-162422REB 99-04 PC A10/MF A02

EPA-R-285NASX
OMNI Environmental Services, Inc., Beaverton, OR.
PB99-129934REB 99-02 PC A03/MF A01

EPA-R-814345-01-0
Florida Univ., Gainesville.
PB99-169898REB 99-04 PC A12/MF A03

EPA-R-818419-03
Research Triangle Inst., Research Triangle Park, NC.
PB99-146342REB 99-03 PC A02/MF A01

EPA-R-819573
Alabama Univ. at Birmingham. Dept. of Civil and Environmental Engineering.
PB99-143224REB 99-03 PC A23/MF A04

EPA-R-820574
Illinois Univ. at Urbana-Champaign. Dept. of Urban and Regional Planning.
PB99-109670REB 99-01 PC A03/MF A01

EPA-R-821100-01-0
Arizona State Univ., Tempe.
PB99-127920REB 99-03 PC A04/MF A01

EPA-R-821788-01-1
Mississippi State Univ., Mississippi State. Forest Products Lab.
PB99-153637REB 99-04 PC A08/MF A02

EPA-R-821848-01-0
Tennessee Univ., Knoxville. Center for Clean Products and Clean Technologies.
PB99-104705REB 99-01 PC A07/MF A02

EPA-R-821887
Waterloo Univ. (Ontario).
PB99-139677REB 99-04 PC A08/MF A02

EPA-R-822002
Research Triangle Inst., Research Triangle Park, NC.
PB99-118309REB 99-02 PC A10/MF A03
PB99-129801REB 99-02 PC A03/MF A01

EPA-R-822024
Arizona Univ., Tucson.
PB99-121428REB 99-02 PC A04/MF A01

EPA-R-822025
Research Triangle Inst., Research Triangle Park, NC.
PB99-129801REB 99-02 PC A03/MF A01

EPA-R-822227
National Inst. of Standards and Technology (BFRL), Gaithersburg, MD. Thermal Machinery Group.
PB99-139040REB 99-03 PC A03/MF A01

EPA-R-822642-01
Research Triangle Inst., Research Triangle Park, NC.
PB99-171530REB 99-04 PC A02/MF A01

EPA-R-822780
Southern Research Inst., Birmingham, AL.
PB99-129793REB 99-02 PC A03/MF A01

EPA-R-822871
Research Triangle Inst., Research Triangle Park, NC.
PB99-126476REB 99-02 PC A03/MF A01

EPA-R-822956
Battelle Columbus Labs., OH.
PB99-102659REB 99-03 PC A06/MF A01

EPA-R-823017
Waterloo Univ. (Ontario). Dept. of Earth Sciences.
PB99-143281REB 99-03 PC A03/MF A01

EPA-R-823020
Georgia Inst. of Tech., Atlanta. School of Civil and Environmental Engineering.
PB99-146367REB 99-03 PC A03/MF A01

EPA-R-823052
North Carolina State Univ. at Raleigh. Dept. of Civil Engineering.
PB99-126492REB 99-02 PC A02/MF A01

EPA-R-823791-01
Wisconsin Univ.-Madison. Dept. of Botany.
PB99-133704REB 99-03 PC A04/MF A01

EPA-R-824049
Midwest Research Inst., Cary, NC.
PB99-143364REB 99-03 PC A02/MF A01

EPA-R-824152
Research Triangle Inst., Research Triangle Park, NC.
PB99-102717REB 99-02 PC A05/MF A01

EPA-R-824257-01
Research Triangle Inst., Research Triangle Park, NC.
PB99-146359REB 99-03 PC A03/MF A01

EPA-R-824287
Syracuse Research Corp., North Syracuse, NY. Environmental Science Center.
PB99-122095REB 99-02 PC A09/MF A02

EPA-R-824433-01-0
California Dept. of Health Services, Sacramento. Dept. of Toxic Substances Control.
PB99-143380REB 99-03 PC A04/MF A01
California Environmental Protection Agency, Sacramento. Office of Pollution Prevention and Technology Development.
PB99-155442REB 99-04 PC A05/MF A01

EPA-R-824639
Mound Laser and Photonics Center, Inc., Miamisburg, OH.
PB99-137424REB 99-03 PC A02/MF A01

EPA-R-825389-01
Arizona Univ., Tucson. Dept. of Chemical and Environmental Engineering.
PB99-102154REB 99-01 PC A03/MF A01

EPA-R-826152-01-0
Research Triangle Inst., Research Triangle Park, NC. Center for Engineering and Environmental Technology.
PB99-137416REB 99-03 PC A03/MF A01

EPA-R-826152-01-1
ETS, Inc., Roanoke, VA.
PB99-102196REB 99-01 PC A06/MF A01
Research Triangle Inst., Research Triangle Park, NC. Center for Engineering and Environmental Technology.
PB99-142937REB 99-03 PC A03/MF A01

EPA-R-826215
Battelle, Columbus, OH.
PB99-126849REB 99-02 PC A02/MF A01

EPA-R-826311
Southern Research Inst., Chapel Hill, NC.
PB99-115578REB 99-01 PC A03/MF A01
PB99-137440REB 99-03 PC A03/MF A01

EPA-R-826311-01-0
Southern Research Inst., Research Triangle Park, NC. Greenhouse Gas Technology Verification Center.
PB99-118333REB 99-02 PC A05/MF A01

EPA-7D-0869-NAEX
Washington Univ., St. Louis, MO. Center for Air Pollution Impact and Trend Analysis.
PB99-147209REB 99-03 PC A05/MF A01

EPA-8C-R059-NTSX
Montgomery Watson, Boston, MA.
PB99-127839REB 99-02 PC A06/MF A01

EPA-68-02-4280
ABB/Combustion Engineering, Inc., Windsor, CT. Power Plant Labs.
PB99-156408REB 99-04 PC A13/MF A03

EPA-68-02-4544
Research Triangle Inst., Research Triangle Park, NC.
PB99-162471REB 99-04 PC A16/MF A03
PB99-162489REB 99-04 PC A99/MF A06

EPA-68-C0-0048
Science Applications International Corp., San Diego, CA.
PB99-129827REB 99-02 PC A06/MF A01

EPA-68-C3-0322
Powell and Associates Science Services, Las Vegas, NV.
PB99-105702REB 99-01 PC A07/MF A02

EPA-68-C3-0374
Tetra Tech, Inc., Fairfax, VA.
PB99-121295REB 99-02 PC A17/MF A03

EPA-68-C4-0031
Powell and Associates Science Services, Las Vegas, NV.
PB99-105702REB 99-01 PC A07/MF A02

EPA-68-C4-0060
Research Triangle Inst., Durham, NC.
PB99-130759REB 99-02 PC A05/MF A01
Research Triangle Inst., Research Triangle Park, NC.
PB99-130742REB 99-02 PC A17/MF A03

EPA-68-C5-0011
Research Triangle Inst., Research Triangle Park, NC. Analytical and Chemical Sciences Unit.
PB99-127912REB 99-03 PC A05/MF A01

EPA-68-C5-0013
Eastern Research Group, Inc., Morrisville, NC.
PB99-163396REB 99-04 PC A17/MF A03

EPA-68-C5-0037
Tetra Tech EM, Inc., Cincinnati, OH.
PB99-155251REB 99-04 PC A07/MF A02
Tetra Tech, Inc., San Diego, CA.
PB99-137275REB 99-03 PC A07/MF A02
PB99-137283REB 99-03 PC A07/MF A02
PB99-137291REB 99-03 PC A07/MF A02
PB99-137309REB 99-03 PC A07/MF A02
PB99-137317REB 99-03 PC A05/MF A01
PB99-137325REB 99-03 PC A06/MF A01

EPA-68-C5-0039
IT Corp., Cincinnati, OH.
PB99-104713REB 99-01 PC A10/MF A03

EPA-68-C5-0061
Cadmus Group, Inc., Waltham, MA.
PB99-147282REB 99-03 PC A05/MF A01
PB99-147290REB 99-03 PC A06/MF A01

EPA-68-C5-0108
IT Corp., Cincinnati, OH.
PB99-144248REB 99-04 PC A08/MF A02

EPA-68-C6-0027
Science Applications International Corp., Reston, VA.
PB99-101412REB 99-01 PC A05/MF A01

EPA-68-C6-0039
International Consultants, Inc., Dayton, OH.
PB99-111502REB 99-02 PC A05/MF A01
PB99-111510REB 99-02 PC A05/MF A01

EPA-68-C6-0041
Eastern Research Group, Inc., Lexington, MA.
PB99-155293REB 99-04 PC A20/MF A04

EPA-68-C6-0059
Science Applications International Corp., McLean, VA.
PB99-111304REB 99-02 PC A14/MF A03
PB99-111312REB 99-02 PC A12/MF A03
PB99-111320REB 99-02 PC A10/MF A03
PB99-111338REB 99-02 PC A10/MF A02
PB99-111494REB 99-02 PC A06/MF A01

EPA-68-C9-0009
Brown (Kenneth G.), Chapel Hill, NC.
PB99-139057REB 99-03 PC A12/MF A03
PB99-139065REB 99-03 PC A16/MF A03

EPA-68-C9-9201
ARCADIS Geraghty and Miller, Inc., Research Triangle Park, NC.
PB99-146920REB 99-04 PC A06/MF A01

CONTRACT/GRANT NUMBER INDEX

EPA-68-C98-010
Tetra Tech, Inc., Fairfax, VA.
PB99-121295REB 99-02 PC A17/MF A03

EPA-68-C-99-201
ARCADIS Geraghty and Miller, Inc., Research Triangle Park, NC.
PB99-146995REB 99-04 PC A07/MF A02
PB99-171514REB 99-04 PC A02/MF A01
PB99-171548REB 99-04 PC A03/MF A01
PB99-171555REB 99-04 PC A03/MF A01
PB99-171563REB 99-04 PC A03/MF A01

EPA-68-D1-0008
International Fuel Cells Corp., South Windsor, CT.
PB99-105199REB 99-02 PC A09/MF A02

EPA-68-D1-0117
Radian International LLC, Research Triangle Park, NC.
PB98-150352REB 99-01 PC A07/MF A02

EPA-68-D2-0134
ManTech Environmental Technology, Inc., Research Triangle Park, NC.
PB99-146938REB 99-04 PC A12/MF A03
QST Environmental, Inc., Gainesville, FL.
PB99-105660REB 99-01 PC A05/MF A01

EPA-68-D2-0139
Battelle Memorial Inst., Columbus, OH.
PB99-113912REB 99-01 PC A12/MF A03

EPA-68-D2-0160
Radian Corp., Research Triangle Park, NC.
PB99-155236REB 99-04 PC A19/MF A04
Radian International LLC, Austin, TX.
PB99-128159REB 99-02 PC A09/MF A02

EPA-68-D2-0164
Energy and Environmental Research Corp., Irvine, CA.
PB99-146391REB 99-03 PC A03/MF A01

EPA-68-D2-0168
Cadmus Group, Inc., Durham, NC.
PB99-150310REB 99-04 PC A16/MF A03
PB99-150336REB 99-04 PC A13/MF A03

EPA-68-D2-20162
Pacific Environmental Services, Inc., Herndon, VA.
PB99-123457REB 99-02 PC A12/MF A03

EPA-68-D3-0004
QuanTech, Inc., Rosslyn, VA.
PB99-113326REB 99-01 PC A06/MF A01
PB99-113508REB 99-01 PC A12/MF A03

EPA-68-D3-0033
Radian International LLC, Research Triangle Park, NC.
PB98-150352REB 99-01 PC A07/MF A02

EPA-68-D3-0035
Midwest Research Inst., Cary, NC.
PB99-172694REB 99-04 PC A07/MF A02
Pechan (E.H.) and Associates, Inc., Rancho Cordova, CA.
PB99-150948REB 99-03 PC A08/MF A02

EPA-68-D3-0095
Eastern Research Group, Inc., Lexington, MA.
PB99-158701REB 99-04 PC A23/MF A04
PB99-162968REB 99-04 PC A23/MF A04
PB99-172728REB 99-04 PC A99/MF A06
Eastern Research Group, Inc., Morrisville, NC.
PB99-155277REB 99-04 PC A16/MF A03
Radian Corp., Research Triangle Park, NC.
PB99-162448REB 99-04 PC A15/MF A03

EPA-68-D4-0005
Acurex Environmental Corp., Research Triangle Park, NC.
PB99-102618REB 99-01 PC A05/MF A01
PB99-146334REB 99-03 PC A03/MF A01
PB99-146375REB 99-03 PC A03/MF A01
ARCADIS Geraghty and Miller, Inc., Research Triangle Park, NC.
PB99-102147REB 99-01 PC A03/MF A01
PB99-102162REB 99-01 PC A03/MF A01
PB99-102238REB 99-01 PC A03/MF A01
PB99-127987REB 99-02 PC A04/MF A01
PB99-144347REB 99-03 PC A04/MF A01
PB99-146995REB 99-04 PC A07/MF A02
PB99-163081REB 99-04 PC A03/MF A01
PB99-171514REB 99-04 PC A02/MF A01
PB99-171522REB 99-04 PC A02/MF A01
Arizona Univ., Tucson. Dept. of Chemical and Environmental Engineering.
PB99-121477REB 99-02 PC A03/MF A01
Umea Univ. (Sweden). Inst. of Environmental Chemistry.
PB99-102204REB 99-01 PC A02/MF A01

EPA-68-D4-0022
Eastern Research Group, Inc., Morrisville, NC.
PB99-118341REB 99-02 PC A08/MF A02
PB99-124034REB 99-02 PC A23/MF A04
PB99-132060REB 99-03 PC A10/MF A03
PB99-132193REB 99-03 PC A06/MF A01

EPA-68-D4-0023
Battelle Memorial Inst., Columbus, OH.
PB99-134835REB 99-03 PC A06/MF A01
PB99-134843REB 99-03 PC A06/MF A01
PB99-134850REB 99-03 PC A07/MF A02
PB99-134934REB 99-03 PC A08/MF A02
PB99-134942REB 99-03 PC A10/MF A02
PB99-134959REB 99-03 PC A09/MF A02

EPA-68-D5-0008
Battelle, Columbus, OH.
PB99-149387REB 99-03 PC A19/MF A04
Battelle Memorial Inst., Columbus, OH.
PB99-140030REB 99-03 PC A06/MF A01

EPA-68-D5-0028
Eastern Research Group, Inc., Lexington, MA.
PB99-136335REB 99-03 PC A12/MF A03
PB99-155285REB 99-04 PC A14/MF A03

EPA-68-D5-0040
Research Triangle Inst., Research Triangle Park, NC.
PB99-143356REB 99-03 PC A03/MF A01
PB99-162471REB 99-04 PC A16/MF A03
PB99-162489REB 99-04 PC A99/MF A06

EPA-68-D5-0049
ManTech Environmental Technology, Inc., Research Triangle Park, NC.
PB99-146938REB 99-04 PC A12/MF A03

EPA-68-D5-0052
Ascension Technology, Inc., Lincoln Center, MA.
PB99-156390REB 99-04 PC A07/MF A02

EPA-68-D5-0128
AeroVironment Environmental Services, Inc., Monrovia, CA.
PB99-114563REB 99-02 PC A05/MF A01

EPA-68-D7-0001
Eastern Research Group, Inc., Lexington, MA.
PB99-122202REB 99-02 PC A05/MF A01
PB99-131005REB 99-04 PC A99/MF E14
PB99-155459REB 99-04 PC A06/MF A01
PB99-155467REB 99-04 PC A04/MF A01

EPA-68-D7-0061
Cadmus Group, Inc., Durham, NC.
PB99-150286REB 99-04 PC A07/MF A02
PB99-150294REB 99-04 PC A99/MF E11

EPA-68-D7-0067
Pechan-Avanti Group, Durham, NC.
PB99-150260REB 99-04 PC A07/MF A02

EPA-68-D9-8027
Midwest Research Inst., Kansas City, MO.
PB99-137432REB 99-03 PC A03/MF A01

EPA-68-D-98-026
EC/R, Inc., Chapel Hill, NC.
PB99-116493REB 99-01 PC A13/MF A03

EPA-68D30001
Pacific Environmental Services, Inc., Research Triangle Park, NC.
PB99-168817REB 99-04 PC A10/MF A03

EPA-68-D-70069
Pacific Environmental Services, Inc., Research Triangle Park, NC.
PB99-163453REB 99-04 PC A99/MF A06
PB99-163461REB 99-04 PC A24/MF A04
PB99-168262REB 99-04 PC A09/MF A02
PB99-168270REB 99-04 PC A99/MF A06
PB99-168288REB 99-04 PC A23/MF A04

EPA/68D98006
EC/R, Inc., Chapel Hill, NC.
PB99-162950REB 99-04 PC A15/MF A03

EPA-68-W1-0055
Science Applications International Corp., Arlington, VA.
PB99-139180REB 99-03 PC A19/MF A04

EPA-68-W5-0055
Federal Remediation Technologies Roundtable.
PB99-106742REB 99-01 PC A14/MF A03
PB99-106759REB 99-01 PC A13/MF A03
PB99-106767REB 99-01 PC A13/MF A03
PB99-106775REB 99-01 PC A14/MF A03
PB99-106783REB 99-01 PC A11/MF A03
PB99-118481REB 99-01 PC A09/MF A02
PB99-118499REB 99-01 PC A12/MF A03
Tetra Tech EM Inc., Denver, CO.
PB99-156812REB 99-04 PC A09/MF A02

EPA-68-W6-0014
Environmental Management Support, Inc., Silver Spring, MD.
PB99-149460REB 99-03 PC A04/MF A01
PB99-149478REB 99-03 PC A04/MF A01
PB99-156747REB 99-04 PC A05/MF A01
PB99-156796REB 99-04 PC A07/MF A02
Federal Remediation Technologies Roundtable.
PB99-156804REB 99-04 PC A04/MF A01

EPA-68-W6-0048
Midwest Research Inst., Kansas City, MO.
PB99-113425REB 99-01 PC A11/MF A03

EPA-68-W6-0050
Cadmus Group, Inc., Durham, NC.
PB99-150369REB 99-04 PC A17/MF A03
PB99-150385REB 99-04 PC A14/MF A03

EPA-68-W-99/003
Tetra Tech EM Inc., Denver, CO.
PB99-156754REB 99-04 PC A06/MF A01
PB99-156812REB 99-04 PC A09/MF A02

EPA-68W40001
CDR Associates, Boulder, CO.
PB99-164725REB 99-04 PC A09/MF A02

EPA-69-D4-0005
Acurex Environmental Corp., Research Triangle Park, NC.
PB99-106296REB 99-01 PC A03/MF A01

N00025-94-D-0002
Excellence Culture Growth, Inc., Vienna, VA.
PB99-101685REB 99-01 PC A15/MF A03

NOAA-NA77OZ0204-01
Virginia Inst. of Marine Science, Gloucester Point.
PB99-145419REB 99-03 PC A17

NTIS ORDER/REPORT NUMBER INDEX

Entries in this index list the NTIS order number and the monitor agency numbers, each in its alphanumeric position. Please use the NTIS order number to order items available from NTIS to ensure faster service.

SAMPLE ENTRY

NTIS Order Number	**PB94-100443/REB**
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
Sponsoring Organization Report Number(s)	**EPA/530/R-93/013A**
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

NTIS ORDER/REPORT NUMBER INDEX

ADA363488REB
Improving the Environmental Safety of Munitions Disposal by OB and OD.
ADA363488REB 99-04 PC A03/MF A01

ADA364012REB
Environmental Technology Verification Report. Field Portable Gas Chromatograph/Mass Spectrometer. Viking Instruments Corporation SpectraTrak (Trademark) 672.
ADA364012REB 99-04 PC A07/MF A02

BNL-65255
Integrated sediment decontamination for the New York/New Jersey Harbor.
DE98004438REB 99-02 PC A03/MF A01

CBP/TRS-207/98
Chesapeake Bay Watershed Model Application and Calculation of Nutrient and Sediment Loadings. Appendix F: Point Source Loadings.
PB99-115511REB 99-01 PC A99/MF A06

CBP/TRS-209/98
Chesapeake Bay Watershed Model Application and Calculation of Nutrient and Sediment Loadings. Appendix I: Phase 4 Chesapeake Bay Watershed Model Operations Manual.
PB99-115529REB 99-01 PC A14/MF A03

CBP/TRS-210/98
Ambient Toxicity Testing in Chesapeake Bay. Year 6 Report.
PB99-115487REB 99-01 PC A10/MF A02

CBP/TRS-211/98
Proceedings: 1997 Chesapeake Bay Program Regional Land Forums.
PB99-114019REB 99-01 PC A04/MF A01

CBP/TRS-213/98
Influence of Salinity on the Chronic Toxicity of Atrazine to Sago Pondweed: Filling a Data Need for Development of an Estuarine Chronic Criterion.
PB99-115495REB 99-01 PC A04/MF A01

CBP/TRS-214/98
Standard Operating Procedures for Conducting Acute and Chronic Aquatic Toxicity Tests with 'Eurytemora affinis', a Calanoid Copepod.
PB99-115503REB 99-01 PC A05/MF A01

CBP/TRS-216/98
Probabilistic Ecological Risk Assessment of Tributyltin in the Chesapeake Bay Watershed.
PB99-103970REB 99-01 PC A06/MF A02

CBP/TRS-218/99
Chesapeake Bay and Atlantic Coast, 1998. Tautog Fishery Management Plan.
PB99-134587REB 99-03 PC A05/MF A01

CBP/TRS-220/99
Riparian Forest Buffers: Linking Land and Water. The Chesapeake Bay Riparian Forest Buffer Initiative.
PB99-155418REB 99-04 PC A03/MF A01

CBP/TRS-222/99
Community Watershed Initiative Strategy: Recognizing Shared Vision, Realizing Shared Goals.
PB99-140048REB 99-03 PC A03/MF A01

CBP/TRS-222-100
Chesapeake Bay Basin Toxics Loading and Release Inventory. Basinwide Toxics Reduction and Prevention Strategy Commitment Report: A Supporting Document for the 1999 Toxics Reevaluation and Revision.
PB99-149114REB 99-03 PC A14/MF A03

CBP/TRS-222/102
Chesapeake Bay Watershed: It's Land and People.
PB99-156416REB 99-04 PC A03

CBP/TRS-222/105
Removing Impediments to Migratory Fishes in the Chesapeake Bay Watershed. Annual Progress Report 1997-1998.
PB99-155434REB 99-04 PC A05/MF A01

CBP/TRS-222/107
Targeting Toxics: A Characterization Report. A Tool for Directing Management and Monitoring Actions in the Chesapeake Bay's Tidal Rivers. A Technical Workplan.
PB99-162844REB 99-04 PC A07/MF A02

CBP/TRS-222/111
Center for Chesapeake Communities' Summit Report. Toward a Sustainable Chesapeake. Held in Baltimore, Maryland on March 21-23, 1999.
PB99-165136REB 99-04 PC A05/MF A01

CBP/TRS-223/99
Environmental Outcome-Based Management: Using Environmental Goals and Measures in the Chesapeake Bay Program.
PB99-162836REB 99-04 PC A04/MF A01

CBP-219/99
Better Backyard: A Citizen Resource Guide to Beneficial Landscaping and Habitat Restoration in the Chesapeake Bay Watershed.
PB99-133852REB 99-02 PC A05/MF A01

CBS-379
Documenting performance metrics in a building life-cycle information system.
DE98059376REB 99-02 PC A02/MF A01

CONF-971151
Aging of polyurethane foam insulation in simulated refrigerator walls.
DE98000332REB 99-02 PC A03/MF A01

CONF-980131
Field technology evaluations in EPA's Environmental Technology Verification (ETC) Program.
DE98004063REB 99-02 PC A03/MF A01

CONF-980523
Aging of polyurethane insulation foamed with second- and third-generation blowing agents.
DE98004290REB 99-02 PC A03/MF A01

CONF-980822-PROC
1998 federal technical standards workshop: Proceedings.
DE98006268REB 99-04 PC A25/MF A04

CONF-9611208
Interoperable, life-cycle tools for assuring building performance: An overview of a commercial building initiative.
DE98051529REB 99-02 PC A03/MF A01

CONF-9709154
Model-based chiller energy tracking for performance assurance at a university building.
DE98051526REB 99-02 PC A03/MF A01

DCN-0073-03-089-005
Landfill Gas Emissions Model, Version 2.0. User's Manual.
PB98-150352REB 99-01 PC A07/MF A02

DCN-93-298-130-12-10
Nonmethane Organic Compounds and Speciated Nonmethane Organic Compounds Monitoring Program, 1993.
PB99-155236REB 99-04 PC A19/MF A04

DCN-96-650-008-03-01
Non-Methane Organic Compounds and Speciated Non-Methane Organic Compounds Monitoring Program, 1994.
PB99-162448REB 99-04 PC A15/MF A03

DE98000332REB
Aging of polyurethane foam insulation in simulated refrigerator walls.
DE98000332REB 99-02 PC A03/MF A01

DE98004063REB
Field technology evaluations in EPA's Environmental Technology Verification (ETC) Program.
DE98004063REB 99-02 PC A03/MF A01

DE98004290REB
Aging of polyurethane insulation foamed with second- and third-generation blowing agents.
DE98004290REB 99-02 PC A03/MF A01

DE98004438REB
Integrated sediment decontamination for the New York/New Jersey Harbor.
DE98004438REB 99-02 PC A03/MF A01

DE98005092REB
Guide to the emissions certification procedures for alternative fuel aftermarket conversions.
DE98005092REB 99-02 PC A05/MF A01

DE98005492REB
Offsite environmental monitoring report; radiation monitoring around United States nuclear test areas, Calendar Year 1996.
DE98005492REB 99-02 PC A07/MF A02

DE98005924REB
Field analytical technology verification: The ETV Site Characterization Program.
DE98005924REB 99-02 PC A03/MF A01

DE98006268REB
1998 federal technical standards workshop: Proceedings.
DE98006268REB 99-04 PC A25/MF A04

DE98051526REB
Model-based chiller energy tracking for performance assurance at a university building.
DE98051526REB 99-02 PC A03/MF A01

DE98051529REB
Interoperable, life-cycle tools for assuring building performance: An overview of a commercial building initiative.
DE98051529REB 99-02 PC A03/MF A01

DE98052311REB
Monitoring, evaluation, reporting, and verification of climate change mitigation projects: Discussion of issues and methodologies and review of existing protocols and guidelines.
DE98052311REB 99-02 PC A10/MF A02

DE98054110REB
Approach to ensuring quality in environmental software.
DE98054110REB 99-02 PC A05/MF A01

DE98056099REB
Sorbent-coated diffusion denuders for direct measurement of gas/particle partitioning by semi-volatile organic compounds.
DE98056099REB 99-04 PC A04/MF A01

DE98056102REB
Monitoring evaluation, reporting and verification of climate change mitigation projects.
DE98056102REB 99-04 PC A03/MF A01

DE98056104REB
Healthy building intervention study: Objectives, methods and results of selected environmental measurements.
DE98056104REB 99-04 PC A04/MF A01

DE98056108REB
Effects of pore fluids in the subsurface on ultrasonic wave propagation.
DE98056108REB 99-04 PC A07/MF A02

DE98057493REB
Measured energy savings of light colored roofs: Results from three California demonstration sites.
DE98057493REB 99-04 PC A03/MF A01

DE98058251REB
Residential energy use in Lithuania: The prospects for energy efficiency.
DE98058251REB 99-04 PC A03/MF A01

DE98059376REB
Documenting performance metrics in a building life-cycle information system.
DE98059376REB 99-02 PC A02/MF A01

DOT-T-99-02
System of Activity-Based Models for Portland, Oregon.
PB99-133837REB 99-03 PC A09/MF A02

DOT-T-99-03
Land Use Compendium.
PB99-129140REB 99-02 PC A11/MF A03

EPA/SAB/CASAC-99/001
CASAC Review of the Draft Diesel Health Assessment Document. Review of the Office of Research and Development's Draft Diesel Health Assessment Document by the Clean Air Scientific Advisory Committee (CASAC).
PB99-116527REB 99-01 PC A08/MF A02

EPA-SAB-COUNCIL-ADV-99-005
SAB Advisory: The Clean Air Act Section 812 Prospective Study: Health and Ecological Initial Studies.
PB99-133266REB 99-02 PC A04/MF A01

EPA-SAB-DWC-ADV-98-004
SAB Advisory on the National Drinking Water Contaminant Occurrence Database.
PB99-116410REB 99-01 PC A03/MF A01

EPA-SAB-EC-98-013
SAB Report: Review of the USEPA's Report to Congress on Residual Risk.
PB99-116535REB 99-01 PC A08/MF A02

EPA-SAB-EEAC-ADV-98-005
SAB Advisory on Economic Research Topics and Priorities.
PB99-116543REB 99-01 PC A03/MF A01

EPA-SAB-EHC-99-002
SAB Report: Review of the RfC Methods Case Studies. Review of Case Studies Associated with the Document Methods for Derivation of Inhalation Reference Concentrations and Application of Inhalation Dosimetry (EPA/600/8-90/066F).
PB99-126419REB 99-02 PC A04/MF A01

EPA-SAB-EHC-99-003
SAB Report: Review of the Health Risk Assessment of 1,3-Butadiene. Review of the Office of Research and Development's Draft Health Risk Assessment of 1,3-Butadiene.
PB99-124406REB 99-02 PC A06/MF A01

EPA-SAB-EHC-99-004
SAB Report: Technical Review of the Proposed TSCA Section 403 Regulation (Identification of Dangerous Levels of Lead).
PB99-124380REB 99-02 PC A05/MF A01

EPA-SAB-EHC-99-005
SAB Report: Development of the Acute Reference Exposure. Review of the Draft Document Methods for Exposure-Response Analysis for Acute Inhalation Exposure to Chemicals: Development of the Acute Reference Exposure (EPA/600/R-68/051).
PB99-124398REB 99-02 PC A04/MF A01

EPA-SAB-IHEC-ADV-99-004
SAB Advisory: The National Human Expsoure Assessment Survey (NHEXAS) Pilot Studies.
PB99-133290REB 99-02 PC A04/MF A01

EPA-SAB-RAC-99-009
SAB Report: Review of Health Risk from Low-Level Environmental Exposures to Radio-Nuclides (FGR-13 Report). Review of the Office of Radiation and Indoor Air's Federal Guidance Report 13-Part 1, Interim Version (FGR-13).
PB99-133282REB 99-02 PC A04/MF A01

EPA/200/B-98/001
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PB99-124323REB 99-02 PC A99/MF E08

EPA/200/R-94/003
Proceedings of the National Environmental Justice Advisory Council and Subcommittees. Held in Washington, DC. on October 25-27, 1994.
PB99-147985REB 99-03 PC A14/MF A03

EPA/200/R-95/008
Summary of the Meeting of the National Environmental Justice Advisory Council. Held in Washington, DC. on December 12-14, 1995. Executive Summary.
PB99-147845REB 99-03 PC A03/MF A01

EPA/200/R-96/003
Summary of the Meeting of the National Environmental Justice Advisory Council. Held in Baltimore, Maryland on December 10-12, 1996.
PB99-147837REB 99-03 PC A14/MF A03

EPA/200/R-96/004
Report of the Environmental Justice Enforcement and Compliance Assurance Roundtable. Held in San Antonio, Texas on October 17-19, 1996.
PB99-147761REB 99-03 PC A05/MF A01

EPA/200/R-97/001
Summary of the Meeting of the National Environmental Justice Advisory Council. Held in Wabeno, Wisconsin on May 13-15, 1997.
PB99-147829REB 99-03 PC A12/MF A03

EPA/200/R-97/002
Summary of the Meeting of the National Environmental Justice Advisory Council. Held in Durham, North Carolina on December 8-10, 1997.
PB99-147852REB 99-03 PC A11/MF A03

EPA/200/R-98/002
Summary of the Meeting of the National Environmental Justice Advisory Council. Held in Oakland, California on May 31-June 3, 1998.
PB99-147860REB 99-03 PC A11/MF A03

EPA/300/F-98/001
Using Supplemental Environmental Projects to Facilitate Brownfields Redevelopment.
PB99-151045REB 99-03 PC A02/MF A01

EPA/305/B-98/006
Protocol for Conducting Environmental Compliance Audits of Treatment, Storage and Disposal Facilities under the Resource Conservation and Recovery Act.
PB99-105579REB 99-02 PC A13/MF A03

EPA/305/B-98/007
Protocol for Conducting Environmental Compliance Audits under the Emergency Planning and Community Right-to-Know Act.
PB99-122194REB 99-02 PC A05/MF A01

EPA/305/B-98/009
Protocol for Conducting Environmental Compliance Audits under the Comprehensive Environmental Response, Compensation, and Liability Act.
PB99-122186REB 99-02 PC A06/MF A01

EPA/305/R-98/001
Providing Safe Drinking Water in America: 1996 National Public Water Systems Compliance Report and Update on Implementation of the 1996 Safe Drinking Water Act Amendments.
PB99-111726REB 99-01 PC A07/MF A02

EPA/310/B-99/001
Kraft Pulp Mill Compliance Assessment Guide (Includes: CAA, CWA, RCRA and EPCRA).
PB99-163396REB 99-04 PC A17/MF A03

EPA/310/R-95/001
Profile of the Dry Cleaning Industry. EPA Office of Compliance Sector Notebook Project.
PB99-122723REB 99-02 PC A06/MF A01

EPA/310/R-95/002
Profile of the Electronics and Computer Industry. EPA Office of Compliance Sector Notebook Project.
PB99-122731REB 99-02 PC A09/MF A02

EPA/310/R-95/003
Profile of the Wood Furniture and Fixtures Industry. EPA Office of Compliance Sector Notebook Project.
PB99-122889REB 99-02 PC A07/MF A02

EPA/310/R-95/004
Profile of the Inorganic Chemical Industry. EPA Office of Compliance Sector Notebook Project.
PB99-122871REB 99-02 PC A08/MF A02

EPA/310/R-95/005
Profile of the Iron and Steel Industry. EPA Office of Compliance Sector Notebook Project.
PB99-122863REB 99-02 PC A07/MF A02

EPA/310/R-95/006
Profile of the Lumber and Wood Products Industry. EPA Office of Compliance Sector Notebook Project.
PB99-122855REB 99-02 PC A08/MF A02

EPA/310/R-95/008
Profile of the Metal Mining Industry. EPA Office of Compliance Sector Notebook Project.
PB99-122848REB 99-02 PC A08/MF A02

EPA/310/R-95/009
Profile of the Motor Vehicle Assembly Industry. EPA Office of Compliance Sector Notebook Project.
PB99-122681REB 99-02 PC A09/MF A02

EPA/310/R-95/010
Profile of the Nonferrous Metals Industry. EPA Office of Compliance Sector Notebook Project.
PB99-122707REB 99-02 PC A08/MF A02

EPA/310/R-95/011
Profile of the Non-Fuel, Non-Metal Mining Industry. EPA Office of Compliance Sector Notebook Project.
PB99-122699REB 99-02 PC A07/MF A02

EPA/310/R-95/012
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Superfund Record of Decision (EPA Region 4): Camp Lejeune Military Reservation (USNavy) Operable Unit 11, Site 7 and 80, Onslow County, NC., January 20, 1998.
PB98-964003REB 99-02 PC A08/MF A02

EPA 541-R98-020
Superfund Record of Decision (EPA Region 4): Milan Army Ammunition Plant, Milan, TN., March 11, 1998.
PB98-964004REB 99-02 PC A08/MF A02

EPA 541-R98-021
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Unit 20, K-Area Bingham Pump Outage Pit (643-1G), Aiken, SC., March 23, 1998.
PB98-964005REB 99-02 PC A05/MF A01

EPA 541-R98-022
Superfund Record of Decision (EPA Region 4): Jacksonville Naval Air Station, Operable Unit 1, Jacksonville, FL., August 3, 1998.
PB98-964006REB 99-03 PC A05/MF A01

EPA 541-R98-023
Superfund Record of Decision (EPA Region 4): Homestead Air Force Base, Operable Unit 2, Homestead, FL., July 16, 1998.
PB98-964007REB 99-03 PC A08/MF A02

EPA 541-R98-027
Superfund Record of Decision (EPA Region 9): Treasure Island Naval Station, Hunter's Point Annex (Parcel B), San Francisco, CA., October 9, 1997.
PB98-964501REB 99-03 PC A07/MF A02

EPA 541-R98-028
Superfund Record of Decision (EPA Region 9): Yuma Marine Corps Air Station, Operable Unit 2, Yuma, AZ., December 2, 1997.
PB98-964502REB 99-03 PC A10/MF A02

EPA 541-R98-029
Superfund Record of Decision (EPA Region 9): Travis Air Force Base, North, East, and West Industrial Operable Units, Solano County, CA., December 3, 1997.
PB98-964503REB 99-03 PC A15/MF A03

EPA 541-R98-030
Superfund Record of Decision (EPA Region 9): Tracy Defense Depot (USArmy) (2 Volumes), Tracy, CA., April 14, 1998.
PB98-964504REB 99-03 PC A99/MF A06

EPA 541-R98-031
Superfund Record of Decision (EPA Region 9): Barstow Marine Corps Logistics Base, Operable Units 1 and 2, Barstow, CA., April 7, 1998.
PB98-964505REB 99-03 PC A15/MF A03

EPA 541-R98-032
Superfund Record of Decision (EPA Region 9): Barstow Marine Corps Logistics Base, Operable Units 5 and 6, Barstow, CA., January 12, 1998.
PB98-964506REB 99-03 PC A99/MF A06

EPA 541-R98-033
Superfund Record of Decision Amendment (EPA Region 9): J. H. Baxter and Company, Weed CA., March 27, 1998.
PB98-963104REB 99-03 PC A08/MF A02

EPA 541-R98-034
Superfund Record of Decision (EPA Region 10): Eastern Michaud Flats Contamination, Pocatello, ID., June 8, 1998.
PB98-964601REB 99-03 PC A12/MF A03

EPA 541-R98-035
Superfund Record of Decision (EPA Region 10): Idaho National Engineering Laboratory (USDOE), Operable Unit 2-13, Idaho Falls, ID., December 17, 1997.
PB98-964602REB 99-02 PC A12/MF A03

EPA 541-R98-039
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Westinghouse Elevator Company Plant, Gettysburg, PA., August 3, 1998.
PB98-963106REB 99-03 PC A03/MF A01

EPA 541-R98-040
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 10): Fort Lewis Logistics Center, Tillicum, WA., September 9, 1998.
PB98-963109REB 99-03 PC A03/MF A01

EPA 541-R98-041
Superfund Record of Decision (EPA Region 9): Andersen Air Force Base, Operable Unit 3 (Marbo Annex), Yigo, Guam, June 16, 1998.
PB98-964507REB 99-03 PC A12/MF A03

EPA 541-R98-042
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Osborne Landfill (ROD No. 1), Grove City, PA., August 24, 1998.
PB98-963110REB 99-02 PC A03/MF A01

EPA 541-R98-043
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Osborne Landfill (ROD No. 2), Grove City, PA., August 24, 1998.
PB98-963111REB 99-02 PC A02/MF A01

EPA 541-R98-044
Superfund Explanation of Significant Diference for the Record of Decision (EPA Region 2): Ramapo Landfill, Ramapo, NY., November 26, 1997.
PB98-963112REB 99-02 PC A02/MF A01

EPA 541-R-98-045
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Hunterstown Road, Straban Township, PA., August 25, 1998.
PB98-963113REB 99-02 PC A02/MF A01

EPA 541-R98-046
Superfund Record of Decision (EPA Region 3): Ohio River Park Site, Operable Unit 3, Neville Island, PA., September 17, 1998.
PB98-963907REB 99-03 PC A06/MF A01

EPA 541-R98-047
Superfund Record of Decision (EPA Region 6): Lincoln Creosote Site, Bossier City, LA., November 26, 1997.
PB98-964201REB 99-02 PC A04/MF A01

EPA 541-R98-048
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): North Penn Area 1, Souderton, PA., September 24, 1998.
PB98-963114REB 99-03 PC A02/MF A01

EPA 541-R98-049
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): CryoChem, Inc., Operable Unit 3 (Contamination Soil), Worman, PA., September 22, 1998.
PB98-963115REB 99-03 PC A03/MF A01

EPA 541-R98-050
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Arrowhead Associates Scovill Corporation, Montross, VA., September 15, 1998.
PB98-963116REB 99-03 PC A03/MF A01

EPA 541-R98-051
Superfund Record of Decision (EPA Region 9): Williams Air Force Bae, Operable Unit 5, Chandler, AZ., October 14, 1997.
PB98-964508REB 99-03 PC A06/MF A02

EPA 541-R98-052
Superfund Record of Decision (EPA Region 10): Vancouver Water Station No. 1 Contamination, Vancouver, WA., September 11, 1998.
PB98-964603REB 99-03 PC A05/MF A01

EPA 541-R98-053
Superfund Record of Decision (EPA Region 2): Asbestos Dump, Operable Unit 3, Millington, NJ., September 8, 1998.
PB98-963805REB 99-03 PC A09/MF A02

EPA 541-R98-054
Superfund Record of Decision (EPA Region 3): Fischer and Porter Company, Operable Unit 2, Warminster, PA., September 28, 1998.
PB98-963915REB 99-03 PC A05/MF A01

EPA 541-R98-055
Superfund Record of Decision (EPA Region 4): Davis Park Road TCE, Gastonia, NC., September 29, 1998.
PB98-964009REB 99-03 PC A06/MF A01

EPA 541-R98-056
Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 5, Jacksonville, FL., August 4, 1998.
PB98-964010REB 99-03 PC A04/MF A01

EPA 541-R98-057
Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 6, Jacksonville, FL., August 27, 1998.
PB98-964011REB 99-03 PC A05/MF A01

EPA 541-R98-058
Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 8, Jacksonville, FL., August 27, 1998.
PB98-964012REB 99-03 PC A05/MF A01

EPA 541-R98-059
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Fire Department Hose Training Facility, Aiken, SC., August 4, 1998.
PB98-964013REB 99-03 PC A05/MF A01

EPA 541-R98-060
Superfund Record of Decision (EPA Region 10): Idaho National Engineering Lab (USDOE), Operable Unit 8-98, Idaho Falls, ID., September 29, 1998.
PB98-964604REB 99-03 PC A10/MF A02

EPA 541-R98-061
Superfund Record of Decision (EPA Region 10): Idaho National Engineering Lab (USDOE) (ANL-W), Operable Unit 9-04, Idaho Falls, ID., September 29, 1998.
PB98-964605REB 99-03 PC A11/MF A03

EPA 541-R98-062
Superfund Explanation of Significant Difference for the the Record of Decision (EPA Region 10): Idaho National Engineering Lab (USDOE) Pit 9 (WAG-7), Operable Units 7-10, Idaho Falls, ID., September 1, 1998.
PB98-963117REB 99-03 PC A03/MF A01

EPA 541-R98-063
Superfund Record of Decision (EPA Region 10): Tulalip Landfill, Marysville, WA., September 29, 1998.
PB98-964606REB 99-03 PC A06/MF A01

EPA 541-R98-064
Superfund Record of Decision (EPA Region 3): Metropolitan Mirror and Glass, Frackville, PA., September 30, 1998.
PB98-963908REB 99-03 PC A04/MF A01

EPA 541-R98-065
Superfund Record of Decision (EPA Region 3): Langley AFB/NASA Langley Center, Tabbs Creek Operable Unit, Hampton, VA., September 30, 1998.
PB98-963909REB 99-03 PC A05/MF A01

EPA 541-R98-066
Superfund Record of Decision (EPA Region 3): Langley AFB/NASA Langley Center, Area E, Warehouse Operable Unit, Hampton, VA., September 28, 1998.
PB98-963910REB 99-03 PC A04/MF A01

EPA 541-R98-067
Superfund Record of Decision (EPA Region 3): Letterkenny Army Depot (PDO and SE Areas), Chambersburg, Franklin County, PA., September 30, 1998.
PB98-963911REB 99-03 PC A06/MF A01

EPA 541-R98-068
Superfund Record of Decision (EPA Region 4): Agriculture and Nutrition (Montgomery), Operable Unit 2, Montgomery, AL., September 28, 1998.
PB98-964014REB 99-03 PC A07/MF A02

EPA 541-R98-069
Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 9 (Disposal Burn Area), Dahlgren, VA., September 30, 1998.
PB98-963912REB 99-03 PC A06/MF A01

EPA 541-R98-070
Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 17 (1400 Area Lanfill), Dahlgren, VA., September 30, 1998.
PB98-963913REB 99-03 PC A05/MF A01

EPA 541-R98-071
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Motor Shops Seepage Basin (716-A), Aiken, SC., June 26, 1998.
PB98-964015REB 99-03 PC A05/MF A01

EPA 541-R98-072
Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 1, FL., September 25, 1998.
PB98-964016REB 99-03 PC A07/MF A02

EPA 541-R98-073
Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 14, Pensacola, FL., September 25, 1998.
PB98-964017REB 99-03 PC A04/MF A01

EPA 541-R98-074
Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 17, Pensacola, FL., September 25, 1998.
PB98-964018REB 99-03 PC A06/MF A01

EPA 541-R98-075
Superfund Record of Decision (EPA Region 6): Longhorn Army Ammunition Plant, group 1 Sites, Karnack, TX., January 23, 1998.
PB98-964202REB 99-04 PC A11/MF A03

EPA 541-R98-076
Superfund Record of Decision (EPA Region 8): California Gulch, Operable Unit 3, Leadville, Co., May 6, 1998.
PB98-964401REB 99-03 PC A05/MF A01

EPA 541-R98-077
Superfund Record of Decision (EPA Region 8): California Gulch, Operable Unit 4, Leadville, CO., March 31, 1998.
PB98-964402REB 99-03 PC A11/MF A03

EPA 541-R98-078
Superfund Record of Decision (EPA Region 8): Murray Smelter, Murray City, UT., April 1, 1998.
PB98-964403REB 99-03 PC A08/MF A02

EPA 541-R98-079
Superfund Record of Decision (EPA Region 8): Eagle Mine, Operable Unit 2, Mintum/Reddiff, CO., September 3, 1998.
PB98-964404REB 99-03 PC A03/MF A01

EPA 541-R98-080
Superfund Record of Decision (EPA Region 8): Smeltertown Site, Operable Unit 2, Former Koppers Wood Training Site, Salida, CO., June 4, 1998.
PB98-964405REB 99-03 PC A11/MF A03

EPA 541-R98-081
Superfund Record of Decision (EPA Region 3): Norfolk Naval Base, Operable Unit 2, CD Landfill Site 6, Norfolk, VA., September 30, 1998.
PB98-963914REB 99-03 PC A07/MF A02

EPA 541-R98-082
Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 5, Albany, GA., February 11, 1998.
PB98-964019REB 99-03 PC A06/MF A01

EPA 541-R98-083
Superfund Record of Decision (EPA Region 9): San Gabriel Valley (Area 4), Puente Valley operable Unit, La Puente, CA., September 30, 1998.
PB98-964509REB 99-03 PC A10/MF A03

EPA 541-R98-084
Superfund Record of Decision (EPA Region 9): Mather Air Force Base, Basewide Operable Unit Sites, Sacramento, CA., September 28, 1998.
PB98-964510REB 99-03 PC A19/MF A04

EPA 541-R98-085
Superfund Record of Decision (EPA Region 4): Flanders Filters, Inc., Site, Washington, NC., September 18, 1998.
PB98-964020REB 99-03 PC A09/MF A02

EPA 541-R98-086
Superfund Record of Decision (EPA Region 4): Shuron Inc. Site, Barnwell, SC., September 9, 1998.
PB98-964021REB 99-03 PC A14/MF A03

EPA 541-R98-087
Superfund Record of Decision Amendment (EPA Region 4): Geiger (C and M Oil) Site, Rantowles, SC., September 9, 1998.
PB98-963118REB 99-03 PC A07/MF A02

EPA 541-R98-088
Superfund Record of Decision Amendment (EPA Region 4): Whitehouse Oil Pits, Whitehouse, FL., September 24, 1998.
PB98-963119REB 99-03 PC A05/MF A01

EPA 541-R98-089
Superfund Record of Decision (EPA Region 5): H. O. D. Landfill, Antioch, IL., September 28m 1998.
PB98-964102REB 99-03 PC A09/MF A02

EPA 541-R98-090
Superfund Record of Decision (EPA Region 5): Byron Salvage Yard, Byron, IL., September 24, 1998.
PB98-964103REB 99-04 PC A08/MF A02

EPA 541-R98-092
Superfund Record of Decision (EPA Region 5): DuPage County Landfill/Blackwell Forest Preserve, Warrenville, IL., September 30, 1998.
PB98-964105REB 99-03 PC A06/MF A02

EPA 541-R98-093
Superfund Record of Decision (EPA Region 5): Petoskey Municipal Well Field Petoskey, MI., September 30, 1998.
PB98-964106REB 99-03 PC A08/MF A02

EPA 541-R98-094
Superfund Record of Decision (EPA Region 5): Penta Wood Products Inc., Daniel, WI., September 29, 1998.
PB98-964107REB 99-03 PC A07/MF A02

EPA 541-R98-095
Superfund Record of Decision (EPA Region 5): Spickler Landfill, Operable Unit 2, Spencer, WI., September 29, 1998.
PB98-964108REB 99-03 PC A04/MF A01

EPA 541-R98-096
Superfund Record of Decision (EPA Region 8): Anaconda Company Smelter (ARWW&S) Operable Unit, Anaconda, MT., September 29, 1998.
PB98-964406REB 99-03 PC A99/MF E08

EPA 541-R98-098
Superfund Record of Decision (EPA Region 5): Allied Paper/Portage Creek/Kalamazoo River, Operable Unit 3, Kalamazoo, MI., February 10, 1998.
PB98-964110REB 99-03 PC A05/MF A01

EPA 541-R98-099
Superfund Record of Decision Amendment (EPA Region 5): Springfield Township Dump, Davisburg, MI., June 10, 1998.
PB98-963120REB 99-03 PC A05/MF A01

EPA 541-R98-100
Superfund Record of Decision Amendment (EPA Region 5): H. Brown Company, Inc., Grand Rapids, MI., February 25, 1998.
PB98-963121REB 99-03 PC A05/MF A01

EPA 541-R98-101
Superfund Record of Decision Amendment (EPA Region 5): Ott/Story/Cordova Chemical Co., Dalton Township, MI., February 26, 1998.
PB98-963122REB 99-03 PC A06/MF A01

EPA 541-R98-102
Superfund Record of Decision (EPA Region 4): Koppers Co., Inc. (Charleston Plant), Charleston, SC., April 29, 1998.
PB98-964022REB 99-03 PC A16/MF A03

EPA 541-R98-103
Superfund Record of Decision (EPA Region 4): Stauffer Chemical Co. (Tarpon Springs), Operable Unit 1, Tarpon Springs, FL., July 2, 1998.
PB98-964023REB 99-03 PC A06/MF A01

EPA 541-R98-104
Superfund Record of Decision (EPA Region 4): Calhoun Park Area, Charleston, SC., September 30, 1998.
PB98-964024REB 99-03 PC A08/MF A02

EPA 541-R98-105
Superfund Record of Decision (EPA Region 5): Wright-Patterson AFB (41 IRP Sites), Dayton, OH., September 30, 1998.
PB98-964111REB 99-03 PC A06/MF A01

EPA 541-R98-106
Superfund Record of Decision (EPA Region 8): Monticello Mill Tailings (USDOE), Operable Unit 3, Monticello, UT., September 29, 1998.
PB98-964407REB 99-03 PC A05/MF A01

EPA 541-R98-107
Superfund Record of Decision (EPA Region 8): Hill Air Air Force Base, Operable Unit 1, Ogden, UT., September 29, 1998.
PB98-964408REB 99-03 PC A16/MF A03

EPA 541-R98-108
Superfund Record of Decision (EPA Region 3): Dover Air Force Base, WP 21 and IWBs Areas, Dover, DE., May 1, 1998.
PB98-963916REB 99-03 PC A05/MF A01

EPA 541-R98-109
Superfund Record of Decision (EPA Region 3): Allegany Ballistics Laboratory (USNavy) Site 10, Mineral, WV., June 30, 1998.
PB98-963917REB 99-03 PC A05/MF A01

EPA 541-R98-110
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 4): Wrigley Charcoal Plant, Wrigley, TN., October 20, 1997.
PB98-963123REB 99-03 PC A02/MF A01

EPA 541-R98-111
Superfund Record of Decision (EPA Region 4): Woolfolk Chemical Works, Inc. (Operable Unit 3), Fort Valley, GA., August 6, 1998.
PB98-964008REB 99-03 PC A07/MF A02

EPA 541-R98-112
Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE) Operable Unit 5, Paducah, KY., August 10, 1998.
PB98-964025REB 99-03 PC A07/MF A02

EPA 541-R98-113
Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE), Operable Unit 15, Paducah, KY., August 10, 1998.
PB98-964026REB 99-03 PC A05/MF A01

EPA 541-R98-114
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) D-Area Oil Seepage Basin (631-G), Aiken, SC., August 14, 1998.
PB98-964027REB 99-03 PC A08/MF A02

EPA 541-R98-116
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Silver Bow Creek/Butte Area Silver Bow and Deer Lodge, MT., August 31, 1998.
PB98-963125REB 99-03 PC A04/MF A01

EPA 541-R98-117
Superfund Record of Decision Amendment (EPA Region 1): Tibbetts Road, Barrington, NH., September 28, 1998.
PB98-963126REB 99-03 PC A10/MF A02

EPA 541-R98-118
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Beacon Heights Landfill, Beacon Falls, CT., September 9, 1998.
PB98-963127REB 99-03 PC A03/MF A01

EPA 541-R98-119
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Iron Horse Park, Operable Unit 1, Boston/Marine Wastewater Lagoons, Billerica, MA., October 1, 1997.
PB98-963128REB 99-03 PC A03/MF A01

EPA 541-R98-120
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Loring Air Force Base, Operable Unit 2, Limestone, Maine, September 30, 1998.
PB98-963129REB 99-04 PC A03/MF A01

EPA 541-R98-121
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Davisville Naval Construction Battalion Center, North Kingston, RI., September 30, 1998.
PB98-963130REB 99-03 PC A02/MF A01

EPA 541-R98-122
Superfund Record of Decison (EPA Region 1): Davisville Naval Construction Battalion Center, Operable Unit 4, North Kingstown, RI., September 30, 1998.
PB98-963705REB 99-03 PC A07/MF A02

EPA 541-R98-123
Superfund Record of Decison (EPA Region 1): Davisville Naval Construction Battalion Center, Operable Unit 5, North Kingstown, RI., June 30, 1998.
PB98-963706REB 99-03 PC A06/MF A02

EPA 541-R98-124
Superfund Record of Decision (EPA Region 1): Fletcher's Paint Works and Storage, Milford, NH., September 30, 1998.
PB98-963707REB 99-03 PC A19/MF A04

EPA 541-R98-125.
Superfund Record of Decision (EPA Region 1): Loring Air Force Base, Operable Units 3, 5, 10, and 11, Limestone, ME., August 21, 1998.
PB98-963708REB 99-03 PC A07/MF A02

EPA 541-R98-126
Superfund Record of Decision (EPA Region 1): New Bedford Site, Upper and Lower Harbor Operable Units, New Bedford, MA., September 25, 1998.
PB98-963709REB 99-03 PC A16/MF A03

EPA 541-R98-127
Superfund Record of Decision (EPA Region 1): Burgess Brothers Landfill, Woodford, VT., September 25, 1998.
PB98-963710REB 99-03 PC A08/MF A02

EPA 541-R98-128
Superfund Record of Decision (EPA Region 1): New London Submarine Base, Source Control Operable Unit 10, New London, CT., June 26, 1998.
PB98-963711REB 99-03 PC A03/MF A01

EPA 541-R98-129
Superfund Record of Decision (EPA Region 1): Brunswick Naval Air Station Site 2: Orion Street LF (South), Brunswick, ME., September 29, 1998.
PB98-963712REB 99-03 PC A07/MF A02

EPA 541-R98-130
Superfund Record of Decision (EPA Region 1): Pine Street Canal, Burlington, VT., September 29, 1998.
PB98-963713REB 99-03 PC A15/MF A03

EPA 541-R98-131
Superfund Record of Decision (EPA Region 1): Bennington Municipal Sanitary Landfill, Bennington, VT., September 29, 1998.
PB98-963714REB 99-03 PC A09/MF A02

EPA 541-R98-132
Superfund Record of Decision (EPA Region 1): Otis Air National Guard (USAF), Operable Unit 3, Falmouth, MA., September 30, 1998.
PB98-963715REB 99-03 PC A05/MF A01

EPA 541-R98-133
Superfund Record of Decision (EPA Region 1): Otis Air National Guard (USAF), Operable Unit 5, Falmouth, MA., September 30, 1998.
PB98-963716REB 99-03 PC A15/MF A03

EPA 541-R98-134
Superfund Record of Decision (EPA Region 1): New Hampshire Plating Company, Merrimack, NH., September 28, 1998.
PB98-963717REB 99-03 PC A13/MF A03

EPA 541-R98-135
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): Cosden Chemical Coatings Corp., Beverly, NJ., September 24, 1998.
PB98-963131REB 99-03 PC A03/MF A01

EPA 541-R98-136
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): Reich Farms, Pleasant Plains, NJ., May 26, 1998.
PB98-963132REB 99-03 PC A03/MF A01

EPA 541-R98-137
Superfund Record of Decision (EPA Region 2) Carroll and Dubies Sewage Disposal, Port Jervis, NY., August 24, 1998.
PB98-963133REB 99-03 PC A02/MF A01

EPA 541-R98-138
Superfund Record of Decision (EPA Region 2): Sayreville Landfill, Operable Unit 2, Sayreville, NJ., September 23, 1998.
PB98-963806REB 99-03 PC A08/MF A02

EPA 541-R98-139
Superfund Record of Decision (EPA Region 2): Goldisc Recordings, Inc., Operable Unit 2, Holbrook, NY., September 30, 1998.
PB98-963807REB 99-03 PC A07/MF A02

EPA 541-R98-140
Superfund Record of Decision (EPA Region 2): York Oil Co., Operable Unit 2, Moira, NY., September 29, 1998.
PB98-963808REB 99-03 PC A12/MF A03

EPA 541-R98-141
Superfund Record of Decision (EPA Region 2): Chemsol, Inc., Piscataway, NJ., September 18, 1998.
PB98-963809REB 99-03 PC A99/MF E08

EPA 541-R98-142
Superfund Record of Decision (EPA Region 2): Naval Weapons Station Earle (Site A), Operable Unit 3, Colts Neck, NJ., September 29, 1998.
PB98-963810REB 99-03 PC A06/MF A01

EPA 541-R98-143
Superfund Record of Decision (EPA Region 2): Burnt Fly Bog, Marlboro Township, NJ., September 30, 1998.
PB98-963811REB 99-03 PC A07/MF A02

EPA 541-R98-144
Superfund Record of Decision (EPA Region 2): DuPont Necco Park Site, Operable Unit 1, Niagara County, NY., September 18, 1998.
PB98-963812REB 99-03 PC A18/MF A04

EPA 541-R98-145
Superfund Record of Decision Amendment (EPA Region 3): NCR Corporation (Millsboro Plant), Millsboro, DE., September 29, 1998.
PB98-963134REB 99-03 PC A03/MF A01

EPA 541-R98-146
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): North Penn Area 1 Site, Souderton, PA., October 29, 1997.
PB98-963135REB 99-03 PC A02/MF A01

EPA 541-R98-147
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Whitmoyer Laboratories, Jackson Township, PA., May 12, 1998.
PB98-963136REB 99-03 PC A03/MF A01

EPA 541-R98-148
Superfund Record of Decision (EPA Region 3): US Navy Ships Parts Control Center Site 1: Carter Road Landfill, Mechanicsburg, PA., September 30, 1998.
PB98-963918REB 99-03 PC A04/MF A01

EPA 541-R98-149
Superfund Record of Decision Amendment (EPA Region 4): Hercules 009 Landfill, Brunswick, GA., August 14, 1998.
PB98-963137REB 99-03 PC A02/MF A01

EPA 541-R98-150
Superfund Record of Decision Amendment (EPA Region 4): Cedartown Municipal Landfill, Cedartown, GA., May 11, 1998.
PB98-963138REB 99-03 PC A04/MF A01

EPA 541-R98-151
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Tri-County Landfill/Waste Management Illinois, South Elgin, IL., April 23, 1998.
PB98-963139REB 99-03 PC A03/MF A01

EPA 541-R98-152
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Galen Myers Dump/Drum Salvage, Osceola, IN., September 30, 1998.
PB98-963140REB 99-03 PC A03/MF A01

EPA 541-R98-153
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Kohler company Landfill, Kohler, WI., September 29, 1998.
PB98-963141REB 99-03 PC A02/MF A01

EPA 541-R98-154
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Refuse Hideaway Landfill, Middleton, WI., September 30, 1998.
PB98-963142REB 99-03 PC A03/MF A01

EPA 541-R98-155
Superfund Record of Decision Amendment (EPA Region 5): Woodstock Municipal LF, Woodstock, IL., July 15, 1998.
PB98-963143REB 99-03 PC A07/MF A02

EPA 541-R98-156
Superfund Record of Decision Amendment (EPA Region 5): Allied Chemical and Ironton Coke, Ironton, OH., September 30, 1998.
PB98-963144REB 99-03 PC A03/MF A01

EPA 541-R98-157
Superfund Record of Decision Amendment (EPA Region 5): Moss-American (Kerr-McGee Oil Co.), Milwaukee, WI., September 30, 1998.
PB98-963145REB 99-03 PC A06/MF A01

EPA 541-R98-158
Superfund Record of Decision (EPA Region 5): Continental Steel Corp., Kokomo, IN., September 30, 1998.
PB98-964104REB 99-03 PC A13/MF A03

Superfund Record of Decision (EPA Region 5): H and K Sales (Belding Warehouse), Belding, MI., November 4, 1997.
PB98-964112REB 99-03 PC A04/MF A01

EPA 541-R98-159
Superfund Record of Decision (EPA Region 5): Spartan Chemical Co., Wyoming, MI., April 9, 1998.
PB98-964113REB 99-03 PC A05/MF A01

EPA 541-R98-160
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 6): Vertac, Inc., Jacksonville, AR., January 12, 1998.
PB98-963146REB 99-03 PC A05/MF A01

EPA 541-R98-161
Superfund Record of Decision Amendment (EPA Region 6): Petro-Chemical Systems (Turtle Bayou), Liberty County, TX., April 30, 1998.
PB98-963147REB 99-03 PC A07/MF A02

EPA 541-R98-162
Superfund Record of Decision Amendment (EPA Region 6): Texarkana Wood Preserving Co., Texarkana, TX., March 13, 1998.
PB98-963148REB 99-03 PC A06/MF A01

EPA 541-R98-163
Superfund Record of Decision (EPA Region 6): Madisonville Creosote Works, Inc., Madisonville, LA., August 25, 1998.
PB98-964203REB 99-03 PC A07/MF A02

EPA 541-R98-164
Superfund Record of Decision (EPA Region 6): Rinchem Co., Inc., Albuquerque, NM., September 30, 1998.
PB98-964204REB 99-03 PC A06/MF A01

EPA 541-R98-166
Superfund Record of Decision (EPA Region 7): Weldon Spring Quarry/Plant/Pits (USDOE), St. Charles, MO., September 30, 1998.
PB98-964303REB 99-03 PC A06/MF A01

EPA 541-R98-167
Superfund Record of Decision (EPA Region 7): Iowa Army Ammunition Plant, Operable Unit 1, Middletown, IA., September 29, 1998.
PB98-964304REB 99-03 PC A06/MF A01

EPA 541-R98-168
Superfund Record of Decision (EPA Region 7): Iowa Army Ammunition Plant, Operable Unit 1, Middletown, IA., March 4, 1998.
PB98-964305REB 99-03 PC A06/MF A01

EPA 541-R98-169
Superfund Record of Decision (EPA Region 7): St. Louis Airport/HHS/Futura Coatings Co., St. Louis County, MO., August 27, 1998.
PB98-964306REB 99-03 PC A12/MF A03

EPA 541-R98-170
Superfund Record of Decision (EPA Region 7): 57th and North Broadway Streets, Wichita, KS., June 5, 1998.
PB98-964307REB 99-03 PC A06/MF A01

EPA 541-R98-171
Superfund Record of Decision (EPA Region 7): Bruno Co-Op Association/Associated Properities, Bruno, NE., September 30, 1998.
PB98-964308REB 99-03 PC A06/MF A01

EPA 541-R98-172
Superfund Record of Decision (EPA Region 7): Cornhusker Army Ammunition Plant, Operable Unit 2., Hall County, NE., September 30, 1998.
PB98-964302REB 99-03 PC A03/MF A01

EPA 541-R98-173
Superfund Record of Decision (EPA Region 7): Pester Refinery Co., El Dorado, KS., September 29, 1998.
PB98-964309REB 99-03 PC A04/MF A01

EPA 541-R98-174
Superfund Record of Decision (EPA Region 7): Lake City Army Ammunition Plant (NW Lagoon), Independence, MO., September 29, 1998.
PB98-964310REB 99-03 PC A05/MF A01

EPA 541-R98-175
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Petrochem Recycling Corp./Ekotek Plant, Salt Lake City, UT., December 9, 1997.
PB98-963149REB 99-03 PC A03/MF A01

EPA 541-R98-177
Superfund Record of Decision (EPA Region 8): Portland Cement (Kiln Dust No. 2 and No. 3), Salt Lake City, UT., August 17, 1998.
PB98-964409REB 99-03 PC A06/MF A01

EPA 541-R98-178
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Stringfellow Acid Pits, Riverside, CA., July 9, 1998.
PB98-963151REB 99-03 PC A02/MF A01

EPA 541-R98-179
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Lorentz Barrel and Drum Co., San Jose, CA., April 24, 1998.
PB98-963152REB 99-03 PC A03/MF A01

EPA 541-R98-180
Superfund Record of Decision (EPA Region 9): Indian Bend Washington Area, Operable Unit 3, Scottsdale, AZ., September 30, 1998.
PB98-964511REB 99-03 PC A07/MF A02

EPA 541-R98-181
Superfund Record of Decision (EPA Region 9): Tucson International Airport Area, Operable Unit 3 (AFP 44), Tucson, AZ., September 28, 1998.
PB98-964512REB 99-04 PC A07/MF A02

EPA 541-R98-182
Superfund Record of Decision (EPA Region 10): USArmy Fort Richardson, Operable Unit C, Fort Richardson, AK., September 30, 1998.
PB98-964607REB 99-03 PC A11/MF A03

EPA 541-R98-183
Superfund Record of Decision (EPA Region 10): USNavy Naval Undersea Warfare Engineering Station, Operable Unit 1, Keyport, WA., September 28, 1998.
PB98-964608REB 99-03 PC A11/MF A03

EPA 541-R98-184
Superfund Record of Decision (EPA Region 3): Naval Weapons Station-Yorktown, Operable Units 6 and 7, Yorktown, VA., March 23, 1998.
PB98-963919REB 99-03 PC A06/MF A02

EPA 541-R98-185
Superfund Record of Decision Amendment (EPA Region 10): Eielson Air Force Base, North Star Borough, AK., September 29, 1998.
PB98-963154REB 99-03 PC A03/MF A01

EPA 541-R98-186
Superfund Record of Decision Amendment (EPA Region 10): USAF Eielson Air Force Base, Operable Units 3, 4, and 5, Fairbanks North Star Borough, AK., September 29, 1998.
PB98-963155REB 99-03 PC A04/MF A01

EPA 541-R98-187
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Units 41, 42, 52, and 54, Aiken, SC., September 14, 1998.
PB98-964028REB 99-03 PC A04/MF A01

EPA 541-R98-188
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Waite Park Wells, Waite Park, MN., August 11, 1998.
PB98-963156REB 99-03 PC A03/MF A01

EPA 541-R98-189
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Reilly Tar and Chemical (Indianapolis Plant), Indianapolis, IN., October 6, 1997.
PB98-963157REB 99-03 PC A03/MF A01

EPA 541-R98-190
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), F-Area Retention Basin (281-3F), Aiken, S.C., September 4, 1998.
PB98-964029REB 99-04 PC A07/MF A02

EPA/542/B-97/008
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Urban Air Quality Simulation with Community Multi-Scale Air Quality (CMAQ) Modeling System.
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Tires, Open Burning.
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Modeling Stomatal Response to Atmospheric Humidity.
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PB99-102063REB 99-01 PC A03/MF A01

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RED Facts: Dichlobenil.
PB99-106791REB 99-01 PC A03/MF A01

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RED Facts: Deet.
PB99-128803REB 99-02 PC A02/MF A01

EPA/738/F-98/007
RED Facts: Triclopyr.
PB99-114241REB 99-01 PC A03/MF A01

EPA/738/F-98/011
RED Facts: Bromoxynil.
PB99-123499REB 99-02 PC A02/MF A01

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RED Facts: Propachlor.
PB99-113888REB 99-01 PC A03/MF A01

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RED Facts: Aluminum and Magnesium Phosphide.
PB99-123507REB 99-02 PC A03/MF A01

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RED Facts: Dicofol.
PB99-123549REB 99-02 PC A02/MF A01

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RED Facts: Iprodione.
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RED Facts: Hydramethylnon.
PB99-121204REB 99-02 PC A02/MF A01

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RED Facts: 1,3-Dichloropropene.
PB99-128795REB 99-02 PC A02/MF A01

EPA/738/F-98/024
RED Facts: Methylisothiazolinone.
PB99-128811REB 99-02 PC A02/MF A01

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RED Facts: Chlorine Gas.
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EPA/738/R-98/007
Reregistration Eligibility Decision (RED): Rodenticide Cluster. (Includes RED Facts: Rodenticide Cluster).
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PB99-112062REB 99-01 PC A15/MF A03

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Reregistration Eligibility Decision (RED): Dicofol. (Includes RED Facts: Dicofol Fact Sheet).
PB99-119588REB 99-02 PC A14/MF A03

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Reregistration Eligibility Decision (RED): IPRODIONE. (Includes RED Facts: IPRODIONE Fact Sheet).
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PB99-129652REB 99-02 PC A10/MF A03

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Reregistration Eligibility Decision (RED): Methylisothiazolinone (Includes RED Facts: Methylisothiazolinone.).
PB99-129637REB 99-02 PC A09/MF A02

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Reregistration Eligibility Decision (RED): Chlorine Gas. (Includes RED Facts: Chlorine Gas Fact Sheet).
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PB98-963114REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): North Penn Area 1, Souderton, PA., September 24, 1998.
PB98-963114REB 99-03 PC A02/MF A01

PB98-963115REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): CryoChem, Inc., Operable Unit 3 (Contamination Soil), Worman, PA., September 22, 1998.
PB98-963115REB 99-03 PC A03/MF A01

PB98-963116REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Arrowhead Associates Scovill Corporation, Montross, VA., September 15, 1998.
PB98-963116REB 99-03 PC A03/MF A01

PB98-963117REB
Superfund Explanation of Significant Difference for the the Record of Decision (EPA Region 10): Idaho National Engineering Lab (USDOE) Pit 9 (WAG-7), Operable Units 7-10, Idaho Falls, ID., September 1, 1998.
PB98-963117REB 99-03 PC A03/MF A01

PB98-963118REB
Superfund Record of Decision Amendment (EPA Region 4): Geiger (C and M Oil) Site, Rantowles, SC., September 9, 1998.
PB98-963118REB 99-03 PC A07/MF A02

PB98-963119REB
Superfund Record of Decision Amendment (EPA Region 4): Whitehouse Oil Pits, Whitehouse, FL., September 24, 1998.
PB98-963119REB 99-03 PC A05/MF A01

PB98-963120REB
Superfund Record of Decision Amendment (EPA Region 5): Springfield Township Dump, Davisburg, MI., June 10, 1998.
PB98-963120REB 99-03 PC A05/MF A01

PB98-963121REB
Superfund Record of Decision Amendment (EPA Region 5): H. Brown Company, Inc., Grand Rapids, MI., February 25, 1998.
PB98-963121REB 99-03 PC A05/MF A01

PB98-963122REB
Superfund Record of Decision Amendment (EPA Region 5): Ott/Story/Cordova Chemical Co., Dalton Township, MI., February 26, 1998.
PB98-963122REB 99-03 PC A06/MF A01

PB98-963123REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 4): Wrigley Charcoal Plant, Wrigley, TN., October 20, 1997.
PB98-963123REB 99-03 PC A02/MF A01

PB98-963124REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Burlington Northern (Somers Plant), Somers, MT., July 21, 1998.
PB98-963124REB 99-03 PC A03/MF A01

PB98-963125REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Silver Bow Creek/Butte Area Silver Bow and Deer Lodge, MT., August 31, 1998.
PB98-963125REB 99-03 PC A04/MF A01

PB98-963126REB
Superfund Record of Decision Amendment (EPA Region 1): Tibbetts Road, Barrington, NH., September 28, 1998.
PB98-963126REB 99-03 PC A10/MF A02

PB98-963127REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Beacon Heights Landfill, Beacon Falls, CT., September 9, 1998.
PB98-963127REB 99-03 PC A03/MF A01

PB98-963128REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Iron Horse Park, Operable Unit 1, Boston/Marine Wastewater Lagoons, Billerica, MA., October 1, 1997.
PB98-963128REB 99-03 PC A03/MF A01

PB98-963129REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Loring Air Force Base, Operable Unit 2, Limestone, Maine, September 30, 1998.
PB98-963129REB 99-04 PC A03/MF A01

PB98-963130REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 1): Davisville Naval Construction Battalion Center, North Kingston, RI., September 30, 1998.
PB98-963130REB 99-03 PC A02/MF A01

PB98-963131REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): Cosden Chemical Coatings Corp., Beverly, NJ., September 24, 1998.
PB98-963131REB 99-03 PC A03/MF A01

PB98-963132REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 2): Reich Farms, Pleasant Plains, NJ., May 26, 1998.
PB98-963132REB 99-03 PC A03/MF A01

PB98-963133REB
Superfund Record of Decision (EPA Region 2) Carroll and Dubies Sewage Disposal, Port Jervis, NY., August 24, 1998.
PB98-963133REB 99-03 PC A02/MF A01

PB98-963134REB
Superfund Record of Decision Amendment (EPA Region 3): NCR Corporation (Millsboro Plant), Millsboro, DE., September 29, 1998.
PB98-963134REB 99-03 PC A03/MF A01

PB98-963135REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): North Penn Area 1 Site, Souderton, PA., October 29, 1997.
PB98-963135REB 99-03 PC A02/MF A01

PB98-963136REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 3): Whitmoyer Laboratories, Jackson Township, PA., May 12, 1998.
PB98-963136REB 99-03 PC A03/MF A01

PB98-963137REB
Superfund Record of Decision Amendment (EPA Region 4): Hercules 009 Landfill, Brunswick, GA., August 14, 1998.
PB98-963137REB 99-03 PC A02/MF A01

PB98-963138REB
Superfund Record of Decision Amendment (EPA Region 4): Cedartown Municipal Landfill, Cedartown, GA., May 11, 1998.
PB98-963138REB 99-03 PC A04/MF A01

PB98-963139REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Tri-County Landfill/Waste Management Illinois, South Elgin, IL., April 23, 1998.
PB98-963139REB 99-03 PC A03/MF A01

PB98-963140REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Galen Myers Dump/Drum Salvage, Osceola, IN., September 30, 1998.
PB98-963140REB 99-03 PC A03/MF A01

PB98-963141REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Kohler company Landfill, Kohler, WI., September 29, 1998.
PB98-963141REB 99-03 PC A02/MF A01

PB98-963142REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Refuse Hideaway Landfill, Middleton, WI., September 30, 1998.
PB98-963142REB 99-03 PC A03/MF A01

PB98-963143REB
Superfund Record of Decision Amendment (EPA Region 5): Woodstock Municipal LF, Woodstock, IL., July 15, 1998.
PB98-963143REB 99-03 PC A07/MF A02

PB98-963144REB
Superfund Record of Decision Amendment (EPA Region 5): Allied Chemical and Ironton Coke, Ironton, OH., September 30, 1998.
PB98-963144REB 99-03 PC A03/MF A01

PB98-963145REB
Superfund Record of Decision Amendment (EPA Region 5): Moss-American (Kerr-McGee Oil Co.), Milwaukee, WI., September 30, 1998.
PB98-963145REB 99-03 PC A06/MF A01

PB98-963146REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 6): Vertac, Inc., Jacksonville, AR., January 12, 1998.
PB98-963146REB 99-03 PC A05/MF A01

PB98-963147REB
Superfund Record of Decision Amendment (EPA Region 6): Petro-Chemical Systems (Turtle Bayou), Liberty County, TX., April 30, 1998.
PB98-963147REB 99-03 PC A07/MF A02

PB98-963148REB
Superfund Record of Decision Amendment (EPA Region 6): Texarkana Wood Preserving Co., Texarkana, TX., March 13, 1998.
PB98-963148REB 99-03 PC A06/MF A01

PB98-963149REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Petrochem Recycling Corp./Ekotek Plant, Salt Lake City, UT., December 9, 1997.
PB98-963149REB 99-03 PC A03/MF A01

PB98-963150REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 8): Lowry Landfill, Aurora, CO., October 24, 1997.
PB98-963150REB 99-03 PC A13/MF A03

PB98-963151REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Stringfellow Acid Pits, Riverside, CA., July 9, 1998.
PB98-963151REB 99-03 PC A02/MF A01

PB98-963152REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 9): Lorentz Barrel and Drum Co., San Jose, CA., April 24, 1998.
PB98-963152REB 99-03 PC A03/MF A01

PB98-963153REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 7): Pester Refinery Co., El Dorado, KS., September 29, 1998.
PB98-963153REB 99-03 PC A03/MF A01

PB98-963154REB
Superfund Record of Decision Amendment (EPA Region 10): Eielson Air Force Base, North Star Borough, AK., September 29, 1998.
PB98-963154REB 99-03 PC A03/MF A01

PB98-963155REB
Superfund Record of Decision Amendment (EPA Region 10): USAF Eielson Air Force Base, Operable Units 3, 4, and 5, Fairbanks North Star Borough, AK., September 29, 1998.
PB98-963155REB 99-03 PC A04/MF A01

PB98-963156REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Waite Park Wells, Waite Park, MN., August 11, 1998.
PB98-963156REB 99-03 PC A03/MF A01

PB98-963157REB
Superfund Explanation of Significant Difference for the Record of Decision (EPA Region 5): Reilly Tar and Chemical (Indianapolis Plant), Indianapolis, IN., October 6, 1997.
PB98-963157REB 99-03 PC A03/MF A01

PB98-963203REB
Meeting Summaries from the EPA/ICMA Relocation Stakeholder Forums.
PB98-963203REB 99-01 PC A07/MF A02

PB98-963217REB
Common Contaminants Found at Superfund Sites.
PB98-963217REB 99-01 PC A08/MF A02

PB98-963243REB
Response Actions that Affect Residential or Commercial Structures.
PB98-963243REB 99-01 PC A03/MF A01

PB98-963255REB
Regional Site Assessment Priorities Plans.
PB98-963255REB 99-01 PC A01/MF A01

PB98-963304REB
Updating Remedy Decisions at Select Superfund Sites. Summary Report FY 1996 and FY 1997.
PB98-963304REB 99-01 PC A06/MF A01

PB98-963305REB
Interim Policy on the Use of Permanent Relocations as Part of Superfund Remedial Actions.
PB98-963305REB 99-04 PC A02/MF A01

PB98-963320REB
Returning Superfund Sites to Productive Use: Luminous Processors, Athens, Georgia.
PB98-963320REB 99-03 PC A01/MF A01

PB98-963322REB
Returning Superfund Sites to Productive Use: Bowers Landfill, Pickaway County, Ohio.
PB98-963322REB 99-03 PC A01/MF A01

PB98-963326REB
Evaluating Ground Water Plumes Under the Hazard Ranking System.
PB98-963326REB 99-01 PC A02/MF A01

PB98-963327REB
Evaluating Karst Geology Using the Hazard Ranking System.
PB98-963327REB 99-01 PC A01/MF A01

PB98-963702REB
Superfund Record of Decision (EPA Region 1): New London Submarine Base, Defense Reutilization Marketing Office (Contaminated Soil and Groundwater) Groton, CT., March 31, 1998.
PB98-963702REB 99-03 PC A08/MF A02

PB98-963703REB
Superfund Record of Decision (EPA Region 1): New London Submarine Base, Soil and Sediment Area A Downstream Water Courses/Overbank Disposal Area, Groton, CT., March 31, 1998.
PB98-963703REB 99-03 PC A08/MF A02

PB98-963704REB
Superfund Record of Decision (EPA Region 1): Brunswick Naval Air Station - No Further ACtion at Sites 4 (Acid/Caustic Pit), 11 (Fire Training Area), 13 (Defense Reutilization and Marketing Office Area) and a Remedial Action for the Eastern Plume, Brunswick, ME., February 10, 1998.
PB98-963704REB 99-02 PC A08/MF A02

PB98-963705REB
Superfund Record of Decison (EPA Region 1): Davisville Naval Construction Battalion Center, Operable Unit 4, North Kingstown, RI., September 30, 1998.
PB98-963705REB 99-03 PC A07/MF A02

PB98-963706REB
Superfund Record of Decison (EPA Region 1): Davisville Naval Construction Battalion Center, Operable Unit 5, North Kingstown, RI., June 30, 1998.
PB98-963706REB 99-03 PC A06/MF A02

PB98-963707REB
Superfund Record of Decision (EPA Region 1): Fletcher's Paint Works and Storage, Milford, NH., September 30, 1998.
PB98-963707REB 99-03 PC A19/MF A04

PB98-963708REB
Superfund Record of Decision (EPA Region 1): Loring Air Force Base, Operable Units 3, 5, 10, and 11, Limestone, ME., August 21, 1998.
PB98-963708REB 99-03 PC A07/MF A02

PB98-963709REB
Superfund Record of Decision (EPA Region 1): New Bedford Site, Upper and Lower Harbor Operable Units, New Bedford, MA., September 25, 1998.
PB98-963709REB 99-03 PC A16/MF A03

PB98-963710REB
Superfund Record of Decision (EPA Region 1): Burgess Brothers Landfill, Woodford, VT., September 25, 1998.
PB98-963710REB 99-03 PC A08/MF A02

PB98-963711REB
Superfund Record of Decision (EPA Region 1): New London Submarine Base, Source Control Operable Unit 10, New London, CT., June 26, 1998.
PB98-963711REB 99-03 PC A03/MF A01

PB98-963712REB
Superfund Record of Decision (EPA Region 1): Brunswick Naval Air Station Site 2: Orion Street LF (South), Brunswick, ME., September 29, 1998.
PB98-963712REB 99-03 PC A07/MF A02

PB98-963713REB
Superfund Record of Decision (EPA Region 1): Pine Street Canal, Burlington, VT., September 29, 1998.
PB98-963713REB 99-03 PC A15/MF A03

PB98-963714REB
Superfund Record of Decision (EPA Region 1): Bennington Municipal Sanitary Landfill, Bennington, VT., September 29, 1998.
PB98-963714REB 99-03 PC A09/MF A02

PB98-963715REB
Superfund Record of Decision (EPA Region 1): Otis Air National Guard (USAF), Operable Unit 3, Falmouth, MA., September 30, 1998.
PB98-963715REB 99-03 PC A05/MF A01

PB98-963716REB
Superfund Record of Decision (EPA Region 1): Otis Air National Guard (USAF), Operable Unit 5, Falmouth, MA., September 30, 1998.
PB98-963716REB 99-03 PC A15/MF A03

PB98-963717REB
Superfund Record of Decision (EPA Region 1): New Hampshire Plating Company, Merrimack, NH., September 28, 1998.
PB98-963717REB 99-03 PC A13/MF A03

PB98-963802REB
Superfund Record of Decision (EPA Region 2): Rosen Brothers Scrap Yard/Dump, Cortland, NY., March 23, 1998.
PB98-963802REB 99-02 PC A15/MF A03

PB98-963803REB
Superfund Record of Decision (EPA Region 2): Plattsburgh Air Force Base, SS-005, Operable Unit 12, Plattsburgh, NY., April 2, 1998.
PB98-963803REB 99-02 PC A05/MF A01

PB98-963804REB
Superfund Record of Decision (EPA Region 2): Plattsburgh Air Force Base, SS-006, Operable Unit 13, Plattsburgh, NY., April 2, 1998.
PB98-963804REB 99-02 PC A05/MF A01

PB98-963805REB
Superfund Record of Decision (EPA Region 2): Asbestos Dump, Operable Unit 3, Millington, NJ., September 8, 1998.
PB98-963805REB 99-03 PC A09/MF A02

PB98-963806REB
Superfund Record of Decision (EPA Region 2): Sayreville Landfill, Operable Unit 2, Sayreville, NJ., September 23, 1998.
PB98-963806REB 99-03 PC A08/MF A02

PB98-963807REB
Superfund Record of Decision (EPA Region 2): Goldisc Recordings, Inc., Operable Unit 2, Holbrook, NY., September 30, 1998.
PB98-963807REB 99-03 PC A07/MF A02

PB98-963808REB
Superfund Record of Decision (EPA Region 2): York Oil Co., Operable Unit 2, Moira, NY., September 29, 1998.
PB98-963808REB 99-03 PC A12/MF A03

PB98-963809REB
Superfund Record of Decision (EPA Region 2): Chemsol, Inc., Piscataway, NJ., September 18, 1998.
PB98-963809REB 99-03 PC A99/MF E08

PB98-963810REB
Superfund Record of Decision (EPA Region 2): Naval Weapons Station Earle (Site A), Operable Unit 3, Colts Neck, NJ., September 29, 1998.
PB98-963810REB 99-03 PC A06/MF A01

PB98-963811REB
Superfund Record of Decision (EPA Region 2): Burnt Fly Bog, Marlboro Township, NJ., September 30, 1998.
PB98-963811REB 99-03 PC A07/MF A02

PB98-963812REB
Superfund Record of Decision (EPA Region 2): DuPont Necco Park Site, Operable Unit 1, Niagara County, NY., September 18, 1998.
PB98-963812REB 99-03 PC A18/MF A04

PB98-963903REB
Superfund Record of Decision (EPA Region 3): Malvern TCE, Malvern, PA., November 26, 1997.
PB98-963903REB 99-03 PC A10/MF A02

PB98-963904REB
Superfund Record of Decision (EPA Region 3): Metal Banks, Philadelphia, PA., December 31, 1997.
PB98-963904REB 99-02 PC A09/MF A02

PB98-963905REB
Superfund Record of Decision (EPA Region 3): MW Manufacturing Operable Unit 5, Valley Township, PA., December 22, 1997.
PB98-963905REB 99-02 PC A05/MF A01

PB98-963906REB
Superfund Record of Decision (EPA Region 3): Halby Chemical Co., Operable Unit 2, New Castle, DE., March 31, 1998.
PB98-963906REB 99-03 PC A08/MF A02

PB98-963907REB
Superfund Record of Decision (EPA Region 3): Ohio River Park Site, Operable Unit 3, Neville Island, PA., September 17, 1998.
PB98-963907REB 99-03 PC A06/MF A01

PB98-963908REB
Superfund Record of Decision (EPA Region 3): Metropolitan Mirror and Glass, Frackville, PA., September 30, 1998.
PB98-963908REB 99-03 PC A04/MF A01

PB98-963909REB
Superfund Record of Decision (EPA Region 3): Langley AFB/NASA Langley Center, Tabbs Creek Operable Unit, Hampton, VA., September 30, 1998.
PB98-963909REB 99-03 PC A05/MF A01

PB98-963910REB
Superfund Record of Decision (EPA Region 3): Langley AFB/NASA Langley Center, Area E, Warehouse Operable Unit, Hampton, VA., September 28, 1998.
PB98-963910REB 99-03 PC A04/MF A01

PB98-963911REB
Superfund Record of Decision (EPA Region 3): Letterkenny Army Depot (PDO and SE Areas), Chambersburg, Franklin County, PA., September 30, 1998.
PB98-963911REB 99-03 PC A06/MF A01

PB98-963912REB
Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 9 (Disposal Burn Area), Dahlgren, VA., September 30, 1998.
PB98-963912REB 99-03 PC A06/MF A01

PB98-963913REB
Superfund Record of Decision (EPA Region 3): Naval Surface Warfare-Dahlgren Site 17 (1400 Area Lanfill), Dahlgren, VA., September 30, 1998.
PB98-963913REB 99-03 PC A05/MF A01

PB98-963914REB
Superfund Record of Decision (EPA Region 3): Norfolk Naval Base, Operable Unit 2, CD Landfill Site 6, Norfolk, VA., September 30, 1998.
PB98-963914REB 99-03 PC A07/MF A02

PB98-963915REB
Superfund Record of Decision (EPA Region 3): Fischer and Porter Company, Operable Unit 2, Warminster, PA., September 28, 1998.
PB98-963915REB 99-03 PC A05/MF A01

PB98-963916REB
Superfund Record of Decision (EPA Region 3): Dover Air Force Base, WP 21 and IWBs Areas, Dover, DE., May 1, 1998.
PB98-963916REB 99-03 PC A05/MF A01

PB98-963917REB
Superfund Record of Decision (EPA Region 3): Allegany Ballistics Laboratory (USNavy) Site 10, Mineral, WV., June 30, 1998.
PB98-963917REB 99-03 PC A05/MF A01

PB98-963918REB
Superfund Record of Decision (EPA Region 3): US Navy Ships Parts Control Center Site 1: Carter Road Landfill, Mechanicsburg, PA., September 30, 1998.
PB98-963918REB 99-03 PC A04/MF A01

PB98-963919REB
Superfund Record of Decision (EPA Region 3): Naval Weapons Station-Yorktown, Operable Units 6 and 7, Yorktown, VA., March 23, 1998.
PB98-963919REB 99-03 PC A06/MF A02

PB98-964002REB
Superfund Record of Decision (EPA Region 4): Oak Ridge Reservation (USDOE) Molten Salt Reactor Experiment (MSRE) Facility, Oak Ridge, TN., July 7, 1998.
PB98-964002REB 99-03 PC A04/MF A01

PB98-964003REB
Superfund Record of Decision (EPA Region 4): Camp Lejeune Military Reservation (USNavy) Operable Unit 11, Site 7 and 80, Onslow County, NC., January 20, 1998.
PB98-964003REB 99-02 PC A08/MF A02

PB98-964004REB
Superfund Record of Decision (EPA Region 4): Milan Army Ammunition Plant, Milan, TN., March 11, 1998.
PB98-964004REB 99-02 PC A08/MF A02

PB98-964005REB
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Unit 20, K-Area Bingham Pump Outage Pit (643-1G), Aiken, SC., March 23, 1998.
PB98-964005REB 99-02 PC A05/MF A01

PB98-964006REB
Superfund Record of Decision (EPA Region 4): Jacksonville Naval Air Station, Operable Unit 1, Jacksonville, FL., August 3, 1998.
PB98-964006REB 99-03 PC A05/MF A01

PB98-964007REB
Superfund Record of Decision (EPA Region 4): Homestead Air Force Base, Operable Unit 2, Homestead, FL., July 16, 1998.
PB98-964007REB 99-03 PC A08/MF A02

PB98-964008REB
Superfund Record of Decision (EPA Region 4): Woolfolk Chemical Works, Inc. (Operable Unit 3), Fort Valley, GA., August 6, 1998.
PB98-964008REB 99-03 PC A07/MF A02

PB98-964009REB
Superfund Record of Decision (EPA Region 4): Davis Park Road TCE, Gastonia, NC., September 29, 1998.
PB98-964009REB 99-03 PC A06/MF A01

PB98-964010REB
Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 5, Jacksonville, FL., August 4, 1998.
PB98-964010REB 99-03 PC A04/MF A01

PB98-964011REB
Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 6, Jacksonville, FL., August 27, 1998.
PB98-964011REB 99-03 PC A05/MF A01

PB98-964012REB
Superfund Record of Decision (EPA Region 4): Cecil Field Naval Air Station, Operable Unit 8, Jacksonville, FL., August 27, 1998.
PB98-964012REB 99-03 PC A05/MF A01

PB98-964013REB
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Fire Department Hose Training Facility, Aiken, SC., August 4, 1998.
PB98-964013REB 99-03 PC A05/MF A01

PB98-964014REB
Superfund Record of Decision (EPA Region 4): Agriculture and Nutrition (Montgomery), Operable Unit 2, Montgomery, AL., September 28, 1998.
PB98-964014REB 99-03 PC A07/MF A02

PB98-964015REB
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), Motor Shops Seepage Basin (716-A), Aiken, SC., June 26, 1998.
PB98-964015REB 99-03 PC A05/MF A01

PB98-964016REB
Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 1, FL., September 25, 1998.
PB98-964016REB 99-03 PC A07/MF A02

PB98-964017REB
Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 14, Pensacola, FL., September 25, 1998.
PB98-964017REB 99-03 PC A04/MF A01

PB98-964018REB
Superfund Record of Decision (EPA Region 4): Pensacola Naval Air Station, Operable Unit 17, Pensacola, FL., September 25, 1998.
PB98-964018REB 99-03 PC A06/MF A01

PB98-964019REB
Superfund Record of Decision (EPA Region 4): Marine Corps Logistics Base, Operable Unit 5, Albany, GA., February 11, 1998.
PB98-964019REB 99-03 PC A06/MF A01

PB98-964020REB
Superfund Record of Decision (EPA Region 4): Flanders Filters, Inc., Site, Washington, NC., September 18, 1998.
PB98-964020REB 99-03 PC A09/MF A02

PB98-964021REB
Superfund Record of Decision (EPA Region 4): Shuron Inc. Site, Barnwell, SC., September 9, 1998.
PB98-964021REB 99-03 PC A14/MF A03

PB98-964022REB
Superfund Record of Decision (EPA Region 4): Koppers Co., Inc. (Charleston Plant), Charleston, SC., April 29, 1998.
PB98-964022REB 99-03 PC A16/MF A03

PB98-964023REB
Superfund Record of Decision (EPA Region 4): Stauffer Chemical Co. (Tarpon Springs), Operable Unit 1, Tarpon Springs, FL., July 2, 1998.
PB98-964023REB 99-03 PC A06/MF A01

PB98-964024REB
Superfund Record of Decision (EPA Region 4): Calhoun Park Area, Charleston, SC., September 30, 1998.
PB98-964024REB 99-03 PC A08/MF A02

PB98-964025REB
Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE) Operable Unit 5, Paducah, KY., August 10, 1998.
PB98-964025REB 99-03 PC A07/MF A02

PB98-964026REB
Superfund Record of Decision (EPA Region 4): Paducah Gaseous Diffusion Plant (USDOE), Operable Unit 15, Paducah, KY., August 10, 1998.
PB98-964026REB 99-03 PC A05/MF A01

PB98-964027REB
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) D-Area Oil Seepage Basin (631-G), Aiken, SC., August 14, 1998.
PB98-964027REB 99-03 PC A08/MF A02

PB98-964028REB
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE) Operable Units 41, 42, 52, and 54, Aiken, SC., September 14, 1998.
PB98-964028REB 99-03 PC A04/MF A01

PB98-964029REB
Superfund Record of Decision (EPA Region 4): Savannah River Site (USDOE), F-Area Retention Basin (281-3F), Aiken, S.C., September 4, 1998.
PB98-964029REB 99-04 PC A07/MF A02

PB98-964102REB
Superfund Record of Decision (EPA Region 5): H. O. D. Landfill, Antioch, IL., September 28m 1998.
PB98-964102REB 99-03 PC A09/MF A02

PB98-964103REB
Superfund Record of Decision (EPA Region 5): Byron Salvage Yard, Byron, IL., September 24, 1998.
PB98-964103REB 99-04 PC A08/MF A02

PB98-964104REB
Superfund Record of Decision (EPA Region 5): Continental Steel Corp., Kokomo, IN., September 30, 1998.
PB98-964104REB 99-03 PC A13/MF A03

PB98-964105REB
Superfund Record of Decision (EPA Region 5): DuPage County Landfill/Blackwell Forest Preserve, Warrenville, IL., September 30, 1998.
PB98-964105REB 99-03 PC A06/MF A02

PB98-964106REB
Superfund Record of Decision (EPA Region 5): Petoskey Municipal Well Field Petoskey, MI., September 30, 1998.
PB98-964106REB 99-03 PC A08/MF A02

PB98-964107REB
Superfund Record of Decision (EPA Region 5): Penta Wood Products Inc., Daniel, WI., September 29, 1998.
PB98-964107REB 99-03 PC A07/MF A02

PB98-964108REB
Superfund Record of Decision (EPA Region 5): Spiddler Landfill, Operable Unit 2, Spencer, WI., September 29, 1998.
PB98-964108REB 99-03 PC A04/MF A01

PB98-964110REB
Superfund Record of Decision (EPA Region 5): Allied Paper/Portage Creek/Kalamazoo River, Operable Unit 3, Kalamazoo, MI., February 10, 1998.
PB98-964110REB 99-03 PC A05/MF A01

PB98-964111REB
Superfund Record of Decision (EPA Region 5): Wright-Patterson AFB (41 IRP Sites), Dayton, OH., September 30, 1998.
PB98-964111REB 99-03 PC A06/MF A01

PB98-964112REB
Superfund Record of Decision (EPA Region 5): H and K Sales (Belding Warehouse), Belding, MI., November 4, 1997.
PB98-964112REB 99-03 PC A04/MF A01

PB98-964113REB
Superfund Record of Decision (EPA Region 5): Spartan Chemical Co., Wyoming, MI., April 9, 1998.
PB98-964113REB 99-03 PC A05/MF A01

PB98-964201REB
Superfund Record of Decision (EPA Region 6): Lincoln Creosote Site, Bossier City, LA., November 26, 1997.
PB98-964201REB 99-02 PC A04/MF A01

PB98-964202REB
Superfund Record of Decision (EPA Region 6): Longhorn Army Ammunition Plant, group 1 Sites, Karnack, TX., January 23, 1998.
PB98-964202REB 99-04 PC A11/MF A03

PB98-964203REB
Superfund Record of Decision (EPA Region 6): Madisonville Creosote Works, Inc., Madisonville, LA., August 25, 1998.
PB98-964203REB 99-03 PC A07/MF A02

PB98-964204REB
Superfund Record of Decision (EPA Region 6): Rinchem Co., Inc., Albuquerque, NM., September 30, 1998.
PB98-964204REB 99-03 PC A06/MF A01

PB98-964302REB
Superfund Record of Decision (EPA Region 7): Cornhusker Army Ammunition Plant, Operable Unit 2., Hall County, NE., September 30, 1998.
PB98-964302REB 99-03 PC A03/MF A01

PB98-964303REB
Superfund Record of Decision (EPA Region 7): Weldon Spring Quarry/Plant/Pits (USDOE), St. Charles, MO., September 30, 1998.
PB98-964303REB 99-03 PC A06/MF A01

PB98-964304REB
Superfund Record of Decision (EPA Region 7): Iowa Army Ammunition Plant, Operable Unit 1, Middletown, IA., September 29, 1998.
PB98-964304REB 99-03 PC A06/MF A01

PB98-964305REB
Superfund Record of Decision (EPA Region 7): Iowa Army Ammunition Plant, Operable Unit 1, Middletown, IA., March 4, 1998.
PB98-964305REB 99-03 PC A06/MF A01

PB98-964306REB
Superfund Record of Decision (EPA Region 7): St. Louis Airport/HHS/Futura Coatings Co., St. Louis County, MO., August 27, 1998.
PB98-964306REB 99-03 PC A12/MF A03

PB98-964307REB
Superfund Record of Decision (EPA Region 7): 57th and North Broadway Streets, Wichita, KS., June 5, 1998.
PB98-964307REB 99-03 PC A06/MF A01

PB98-964308REB
Superfund Record of Decision (EPA Region 7): Bruno Co-Op Association/Associated Properities, Bruno, NE., September 30, 1998.
PB98-964308REB 99-03 PC A06/MF A01

PB98-964309REB
Superfund Record of Decision (EPA Region 7): Pester Refinery Co., El Dorado, KS., September 29, 1998.
PB98-964309REB 99-03 PC A04/MF A01

PB98-964310REB
Superfund Record of Decision (EPA Region 7): Lake City Army Ammunition Plant (NW Lagoon), Independence, MO., September 29, 1998.
PB98-964310REB 99-03 PC A05/MF A01

PB98-964401REB
Superfund Record of Decision (EPA Region 8): California Gulch, Operable Unit 3, Leadville, Co., May 6, 1998.
PB98-964401REB 99-03 PC A05/MF A01

PB98-964402REB
Superfund Record of Decision (EPA Region 8): California Gulch, Operable Unit 4, Leadville, CO., March 31, 1998.
PB98-964402REB 99-03 PC A11/MF A03

PB98-964403REB
Superfund Record of Decision (EPA Region 8): Murray Smelter, Murray City, UT., April 1, 1998.
PB98-964403REB 99-03 PC A08/MF A02

PB98-964404REB
Superfund Record of Decision (EPA Region 8): Eagle Mine, Operable Unit 2, Minturn/Redcliff, CO., September 3, 1998.
PB98-964404REB 99-03 PC A03/MF A01

PB98-964405REB
Superfund Record of Decision (EPA Region 8): Smeltertown Site, Operable Unit 2, Former Koppers Wood Training Site, Salida, CO., June 4, 1998.
PB98-964405REB 99-03 PC A11/MF A03

PB98-964406REB
Superfund Record of Decision (EPA Region 8): Anaconda Company Smelter (ARWW&S) Operable Unit, Anaconda, MT., September 29, 1998.
PB98-964406REB 99-03 PC A99/MF E08

PB98-964407REB
Superfund Record of Decision (EPA Region 8): Monticello Mill Tailings (USDOE), Operable Unit 3, Monticello, UT., September 29, 1998.
PB98-964407REB 99-03 PC A05/MF A01

PB98-964408REB
Superfund Record of Decision (EPA Region 8): Hill Air Air Force Base, Operable Unit 1, Ogden, UT., September 29, 1998.
PB98-964408REB 99-03 PC A16/MF A03

PB98-964409REB
Superfund Record of Decision (EPA Region 8): Portland Cement (Kiln Dust No. 2 and No. 3), Salt Lake City, UT., August 17, 1998.
PB98-964409REB 99-03 PC A06/MF A01

PB98-964501REB
Superfund Record of Decision (EPA Region 9): Treasure Island Naval Station, Hunter's Point Annex (Parcel B), San Francisco, CA., October 9, 1997.
PB98-964501REB 99-03 PC A07/MF A02

PB98-964502REB
Superfund Record of Decision (EPA Region 9): Yuma Marine Corps Air Station, Operable Unit 2, Yuma, AZ., December 2, 1997.
PB98-964502REB 99-03 PC A10/MF A02

PB98-964503REB
Superfund Record of Decision (EPA Region 9): Travis Air Force Base, North, East, and West Industrial Operable Units, Solano County, CA., December 3, 1997.
PB98-964503REB 99-03 PC A15/MF A03

PB98-964504REB
Superfund Record of Decision (EPA Region 9): Tracy Defense Depot (USArmy) (2 Volumes), Tracy, CA., April 14, 1998.
PB98-964504REB 99-03 PC A99/MF A06

PB98-964505REB
Superfund Record of Decision (EPA Region 9): Barstow Marine Corps Logistics Base, Operable Units 1 and 2, Barstow, CA., April 7, 1998.
PB98-964505REB 99-03 PC A15/MF A03

PB98-964506REB
Superfund Record of Decision (EPA Region 9): Barstow Marine Corps Logistics Base, Operable Units 5 and 6, Barstow, CA., January 12, 1998.
PB98-964506REB 99-03 PC A99/MF A06

PB98-964507REB
Superfund Record of Decision (EPA Region 9): Andersen Air Force Base, Operable Unit 3 (Marbo Annex), Yigo, Guam, June 16, 1998.
PB98-964507REB 99-03 PC A12/MF A03

PB98-964508REB
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PB98-964508REB 99-03 PC A06/MF A02

PB98-964509REB
Superfund Record of Decision (EPA Region 9): San Gabriel Valley (Area 4), Puente Valley operable Unit, La Puente, CA., September 30, 1998.
PB98-964509REB 99-03 PC A10/MF A03

PB98-964510REB
Superfund Record of Decision (EPA Region 9): Mather Air Force Base, Basewide Operable Unit Sites, Sacramento, CA., September 28, 1998.
PB98-964510REB 99-03 PC A19/MF A04

PB98-964511REB
Superfund Record of Decision (EPA Region 9): Indian Bend Washington Area, Operable Unit 3, Scottsdale, AZ., September 30, 1998.
PB98-964511REB 99-03 PC A07/MF A02

PB98-964512REB
Superfund Record of Decision (EPA Region 9): Tucson International Airport Area, Operable Unit 3 (AFP 44), Tucson, AZ., September 28, 1998.
PB98-964512REB 99-04 PC A07/MF A02

PB98-964601REB
Superfund Record of Decision (EPA Region 10): Eastern Michaud Flats Contamination, Pocatello, ID., June 8, 1998.
PB98-964601REB 99-03 PC A12/MF A03

PB98-964602REB
Superfund Record of Decision (EPA Region 10): Idaho National Engineering Laboratory (USDOE), Operable Unit 2-13, Idaho Falls, ID., December 17, 1997.
PB98-964602REB 99-02 PC A12/MF A03

PB98-964603REB
Superfund Record of Decision (EPA Region 10): Vancouver Water Station No. 1 Contamination, Vancouver, WA., September 11, 1998.
PB98-964603REB 99-03 PC A05/MF A01

PB98-964604REB
Superfund Record of Decision (EPA Region 10): Idaho National Engineering Lab (USDOE), Operable Unit 8-98, Idaho Falls, ID., September 29, 1998.
PB98-964604REB 99-03 PC A10/MF A02

PB98-964605REB
Superfund Record of Decision (EPA Region 10): Idaho National Engineering Lab (USDOE) (ANL-W), Operable Unit 9-04, Idaho Falls, ID., September 29, 1998.
PB98-964605REB 99-03 PC A11/MF A03

PB98-964606REB
Superfund Record of Decision (EPA Region 10): Tulalip Landfill, Marysville, WA., September 29, 1998.
PB98-964606REB 99-03 PC A06/MF A01

PB98-964607REB
Superfund Record of Decision (EPA Region 10): USArmy Fort Richardson, Operable Unit C, Fort Richardson, AK., September 30, 1998.
PB98-964607REB 99-03 PC A11/MF A03

PB98-964608REB
Superfund Record of Decision (EPA Region 10): USNavy Naval Undersea Warfare Engineering Station, Operable Unit 1, Keyport, WA., September 28, 1998.
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PB99-100059REB 99-01 PC A02/MF A01

PB99-100067REB
Pesticide Registration (PR) Notice 98-8. Notice to Manufacturers, Formulators, Producers and Registrants of Pesticide Products. Waiver of Fees Associated with Tolerance Objections.
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Latest Environmental Protection Agency Update Describes Clean Up Needs

Numerous Business Opportunities Outlined in New Report at NTIS

Nearly a quarter of a million U. S. sites with potential contamination from hazardous waste and petroleum products are identified in a new report from EPA's Office of Solid Waste and Emergency Response. The study, *Cleaning Up the Nation's Waste Sites: Markets and Technology Trends,* is available from the National Technical Information Service.

Invaluable information on site characteristics, market size, and other factors is backed by liberal use of charts for quick grasp of demand. The estimated cost for all future work is about $187 million or higher.

According to the study, it will take several decades of planned investment from federal, state, and local government agencies and private industry to meet the continuing demand for site remediation services and technologies. But, with information provided in the report, technology vendors, developers and investors, and government officials can assess the demand for cleanup services. And, from that assessment, they may better identify business opportunities and plan technology research and development efforts.

The report covers all the major cleanup programs in the United States, including:

- Superfund
- Underground storage tanks
- U.S. Departments of Defense and Energy
- Resource Conservation and Recovery Act (RCRA)
- State programs
- Many others

In addition to updating the previous issue, the report includes significant new information on cleanup needs related to underground storage tanks, RCRA corrective actions, and sites administered by DOD, DOE, and other federal agencies.

Cleaning Up the Nation's Waste Sites: Markets and Technology Trends is available from NTIS, 1-800-553-NTIS (6847), for $44 plus $4 handling fee, no additional charge for shipping; quote order number PB96-178041KLS. Most major credit cards accepted. Order via e-mail: **orders@ntis.fedworld.gov**. Fax order to: (703) 321-8547.

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Product Announcement

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EPA's Solid Waste Test Methods on CD-ROM

Official SW-846 Product Contains Latest Update

The National Technical Information Service has just made available the Environment Protection Agency's official CD-ROM version of SW-846 methods. This valuable information product provides test procedures and guidance, recommended by EPA's Office of Solid Waste, to conduct evaluations and measurements required by the Resource Conservation and Recovery Act.

The material includes procedures for (1) field and laboratory quality control, (2) sampling, (3) determining hazardous constituents in wastes, (4) determining hazardous characteristics of wastes, and (5) determining physical properties of wastes.

The CD-ROM contains the very latest EPA information, the Third Edition Basic Manual with Final Updates I, II, IIA, IIB, and III already integrated. User-friendly with many search choices, the CD allows the operator to:

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SW-846 Version 2.0 on CD-ROM (Integrated Updates Through III) is available from NTIS, 1-800-553-NTIS (6847) for $125 plus $4 handling fee for a single user, PB97-501928KLY; $320 plus $4 handling fee for 5 LAN users, PB97-502512KLY; $1,250 plus $4 handling fee for unlimited users, PB97-502520KLY. There are no additional charges for shipping. Most major credit cards accepted. Order via e:mail: **orders@ntis.fedworld.gov**. Fax order to: (703) 321-8547.

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