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### **November 1991—March 1992**

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## Project Summaries

### Ambient Air Quality

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- 20003 Estimation of Emissions from Charcoal Lighter Fluid and Review of Alternatives (EPA/600/S2-90/003)
- 20019 Assessment of VOC Emissions from Fiberglass Boat Manufacturing (EPA/600/S2-90/019)
- 20044 Emission Factors for Iron Foundries: Criteria and Toxic Pollutants (EPA/600/S2-90/044)
- 20057 Solvent Emission Reduction Study at Newark AFB, Ohio (EPA/600/S2-90/057)

- 21029 Sourcebook: NO<sub>x</sub> Control Technology Data (EPA/600/S2-91/029)
- 21061 Evaluation of VOC Emissions from Heated Roofing Asphalt (EPA/600/S2-91/061)
- 27013 Stack Testing of the Mobile Plasma Arc Unit (EPA/600/S2-87/013)
- 27032 Evaluation of Innovative Combustion Technology for Simultaneous Control of SO<sub>x</sub> and NO<sub>x</sub> (EPA/600/S2-87/032)
- 27086 Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility (EPA/600/S2-87/086)
- 27105 The Influence of Sorbent Physical Properties Upon Reactivity with Sulfur Dioxide (EPA/600/S2-87/105)
- 28001 Survey and Evaluation of Fine Bubble Dome and Disc Diffuser Aeration Systems in North America (EPA/600/S2-88/001)
- 28013 Assessment of SO<sub>2</sub> and NO<sub>x</sub> Emission Control Technology in Europe (EPA/600/S2-88/013)
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- 30008 Precision and Accuracy Assessment for State and Local Air Monitoring Networks. 1988 (EPA/600/S3-90/008)
- 30013 Evaluation of Methods Used to Desorb the Constituents Adsorbed on the Charcoal Contained in Automotive Evaporative Canisters (EPA/600/S3-90/013)
- 30017 Urban Aerosol Transformation and Transport Modeling (EPA/600/S3-90/017)
- 30025 Flow and Dispersion of Pollutants Within Two-Dimensional Valleys. Summary Report on Joint Soviet-American Study (EPA/600/S3-90/025)

30027	Evaluation of the Wake Effects on Plume Dispersion Using Video Image Analysis (EPA/600/S3-90/027)	37002	Further Studies of Parameterized Air Quality Modeling Methods for Materials Damage Assessment (EPA/600/S3-87/002)
30029	The Role of Biogenic Organics in the Southeast Ozone Problem Preliminary Assessments and Implications (EPA/600/S3-90/029)	37010	Joint EPA-EPRI Cold Weather Plume Study (CWPS) Overview of Measurements and Data Base (EPA/600/S3-87/010)
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30040	Summary Report for the National Atmospheric Deposition Program/National Trends Network (NADP/NTN) Site Visitation Program for the Period October 1987 through September 1988 (EPA/600/S3-90/040)	37020	The Production of Mutagenic Compounds as a Result of Urban Photochemistry (EPA/600/S3-87/020)
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31050	Development of Ozone Reactivity Scales for Volatile Organic Compounds (EPA/600/S3-91/050)	38010	National Ambient Volatile Organic Compounds (VOCs) Data Base Update (EPA/600/S3-88/010)
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		38012	Development and Testing of the CBM-IV for Urban and Regional Modeling (EPA/600/S3-88/012)

38015	Development of an Adjustable Buoyancy Balloon Tracer of Atmospheric Motion Phase III Refinement of the Operational Prototype System (EPA/600/S3-88/015)	39026	Annual Report on Establishment and Operation of the Eastern Fine Particle and Visibility Network (EPA/600/S3-89/026)
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70008	Verification of Simplified Procedures for Site-Specific SO <sub>2</sub> and NO <sub>x</sub> Control Cost Estimates (EPA/600/S7-90/008)	77002	Fundamental Studies of Calcium-Based Sorbents for SO <sub>2</sub> Control from Coal-Fired Boilers (EPA/600/S7-87/002)
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70010	Emissions and Cost Estimates for Globally Significant Anthropogenic Sources of NO <sub>x</sub> , N <sub>2</sub> O, CH <sub>4</sub> , CO and CO <sub>2</sub> (EPA/600/S7-90/010)	77006	Kraft Pulp Industry Particulate Emissions Source Category Report (EPA/600/S7-87/006)
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70018	Assessment of Control Technologies for Reducing Emissions of SO <sub>2</sub> and NO <sub>x</sub> from Existing Coal-Fired Utility Boilers (EPA/600/S7-90/018)	77023	Performance and Modeling of a Hot Potassium Carbonate Acid Gas Removal System in Treating Coal Gas (EPA/600/S7-87/023)
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70021	Retrofit Costs for SO <sub>2</sub> and NO <sub>x</sub> Control Options at 200 Coal-Fired Plants (EPA/600/S7-90/021)		

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78007	Effect of Fuel Sulfur on Nitrogen Oxide Formation in Combustion Processes (EPA/600/S7-88/007)	80075	Assessment of the Controllability of Condensable Emissions (EPA/600/S8-90/075)
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78009	Comparison of Historic SO <sub>2</sub> and NO <sub>x</sub> Emission Data Sets (EPA/600/S7-88/009)	80085	Landfill Air Emissions Estimation Model User's Manual (EPA/600/S8-90/085)
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78014	Ohio/Kentucky/TVA Coal-Fired Utility SO <sub>2</sub> and NO <sub>x</sub> Retrofit Study (EPA/600/S7-88/014)	81032	MOBILE4 Sensitivity Analysis (EPA/600/S8-91/032)
78022	Anthropogenic Emissions Data for the 1985 NAPAP Inventory (EPA/600/S7-88/022)	81046	Feasibility and Approach for Mapping Radon Potentials in Florida (EPA/600/S8-91/046)
78024	Documentation of Spatial Allocation Factor Procedures for the 1980 NAPAP Emissions Inventory (EPA/600/S7-88/024)	81051	<b>Recommended Operating Procedure No. 2.3: Sampling and Analysis of Total Hydrocarbons from Sources by Continuous Emission Monitor (EPA/600/S8-91/051)</b>
79008	Reranking of Area Sources in Light of Seasonal/Regional Emission Factors and State/Local Needs (EPA/600/S7-89/008)	81211	<b>HAP-PRO User's Manual (For Use with Version 1.0) (EPA/600/S8-91/211)</b>
79010a	The 1985 NAPAP Emissions Inventory Overview of Allocation Factors (EPA/600/S7-89/010a)	87008	Development of VOST Sample Analysis Protocol for Water-Soluble Volatile POHCs and PICs (EPA/600/S8-87/008)
79010	The 1985 NAPAP Emissions Inventory Development of Species Allocation Factors (EPA/600/S7-89/010)	87009	User's Guide for PAL 2.0, A Gaussian-Plume Algorithm for Point, Area, and Line Sources (EPA/600/S8-87/009)
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79012	<b>The 1985 NAPAP Emissions Inventory (Version 2): Development of the Annual Data and Modelers' Tapes (EPA/600/S7-89/012)</b>	87058	User's Guide to the Complex Terrain Dispersion Model (EPA/600/S8-87/058)
79013	The 1985 NAPAP Emissions Inventory (Version 2) Development of the National Utility Reference File (EPA/600/S7-89/013)	87059	Volatile Organic Compound Emission Projection Model User's Manual (Version 1.8) (EPA/600/S8-87/059)
79014	Reporting of Selected EPA-Sponsored Form EIA-767 Data for 1985-1987 (EPA/600/S7-89/014)	88003	The Complex Terrain Dispersion Model (CTDM) Preprocessor System User Guide and Program Description (EPA/600/S8-88/003)
80005	Technical Assistance Document for Sampling and Analysis of Toxic Organic Compounds in Ambient Air (EPA/600/S8-90/005)	88004	User's Guide to the CTDM Meteorological Preprocessor (METPRO) Program (EPA/600/S8-88/004)
80052	Evaluation of Emission Factors for Formaldehyde from Certain Wood Processing Operations (EPA/600/S8-90/052)	88007	Industrial Combustion Emissions Model (Version 6.0) User's Manual (EPA/600/S8-88/007)
		88009	Industrial Combustion Emissions Model (Version 6.0) Software Description (EPA/600/S8-88/009)

- 88064 Development of the Fuel Choice Module in the Industrial Combustion Emissions Model (EPA/600/S8-88/064)
- 88079 EPA/NOAA/NASA/USDA N<sub>2</sub>O Workshop Volume 1 Measurement Studies and Combustion Sources, September 15-16, 1987, Boulder, Colorado (EPA/600/S8-88/079)
- 88090 A Projection Methodology for Future State Level Volatile Organic Compound Emissions from Stationary Sources (Version 1.8) (EPA/600/S8-88/090)
- 88092 Tutorial Manual for CAT (Controlling Air Toxics), Version 1.0 (EPA/600/S8-88/092)
- 88095 Users' Manual for the Personal Computer Version of the Process Model Projection Technique (Version 3.0) (EPA/600/S8-88/095)
- 88101 Description of the Process Model Projection Technique (PROMPT) (Version 3.0) (EPA/600/S8-88/101)
- 91007 Proceedings of Two Highway Vehicle Emission Inventory Workshops (EPA/600/S9-91/007)
- 91015 Proceedings 1990 SO<sub>2</sub> Control Symposium (EPA/600/S9-91/015)
- 92006 **Identification and Characterization of Missing or Unaccounted for Area Source Categories (EPA/600/SR-92/006)**
- 96026 A Workshop on the Complex Terrain Model Development Project (February 4-6, 1986) (EPA/600/S9-86/026)
- 98009 Findings of the Chlorofluorocarbon Chemical Substitutes International Committee (EPA/600/S9-88/009)
- 99047 Flexible Regional Emissions Data System (FREDS) Documentation for the 1985 NAPAP Emissions Inventory (EPA/600/S9-89/047)
- 99062 Proceedings 1989 Joint Symposium on Stationary Combustion NO<sub>x</sub> Control, San Francisco, CA, March 6-9, 1989, Volumes 1 and 2 (EPA/600/S9-89/062)
- 99089 EPA/IFP European Workshop on the Emission of Nitrous Oxide from Fossil Fuel Combustion (EPA/600/S9-89/089)

## Biotechnology

- 20006 Enhanced Bioremediation Utilizing Hydrogen Peroxide as a Supplemental Source of Oxygen: A Laboratory and Field Study (EPA/600/S2-90/006)
- 20060 In-Situ Biotransformation of Carbon Tetrachloride Under Anoxic Conditions (EPA/600/S2-90/060)
- 21009 Nitrate for Bioremediation of an Aquifer Contaminated with Jet Fuel (EPA/600/S2-91/009)
- 91001 Biological Remediation of Contaminated Sediments, with Special Emphasis on the Great Lakes (EPA/600/S9-91/001)
- 39080 Structure Activity Relationships and Estimation Techniques for Biodegradation of Xenobiotics (EPA/600/S3-89/080)

## Drinking Water

- 17007 Carcinogenic Effects of Arsenic Compounds in Drinking Water (EPA/600/S1-87/007)
- 17008 Formation and Distribution of Organic N-Chloramines from the Ingestion of Chlorinated Drinking Water (EPA/600/S1-87/008)
- 17011 Cytochemical Methods for Assessing *Giardia* Cysts Viability (EPA/600/S1-87/011)
- 19006 The Isolation and Identification of Electrophilic Mutagens Produced During Chlorine Disinfection (EPA/600/S1-89/006)
- 20007 Separated Flow Conditions at Pipe Walls of Water Distribution Mains (EPA/600/S2-90/007)
- 20014 Composite Sampling for Detection of Coliform Bacteria in Water Supply (EPA/600/S2-90/014)
- 20030 Operation of Water Distribution Systems to Improve Water Quality (EPA/600/S2-90/030)
- 20036 Radon Removal Techniques for Small Community Public Water Supplies (EPA/600/S2-90/036)
- 20047 Radon Removal Using Point-of-Entry Water Treatment Techniques (EPA/600/S2-90/047)
- 20049 Radon Removal by POE GAC Systems: Design, Performance and Cost (EPA/600/S2-90/049)
- 21011 Arsenic (III) and Arsenic (V) Removal from Drinking Water in San Ysidro, New Mexico (EPA/600/S2-91/011)
- 21018 Diaper Industry Workshop Report (EPA/600/S2-91/018)
- 21036 Effect of Bromide on Chlorination Byproducts in Finished Drinking Water (EPA/600/S2-91/036)
- 21048 **Evaluation of the MIDDAS Systems for Designing GAC Adsorbers (EPA/600/S2-91/048)**
- 21063 **Radium Removal from Water by Manganese Dioxide Adsorption and Diatomaceous Earth Filtration (EPA/600/S2-91/063)**
- 26015 Design and Construction of a Mobile Activated Carbon Regenerator System (EPA/600/S2-86/015)
- 27006 Alternative Disinfectants and Granular Activated Carbon Effects on Trace Organic Contaminants (EPA/600/S2-87/006)
- 27036 Relationships Between Water Quality and Corrosion of Plumbing Materials in Buildings (EPA/600/S2-87/036)
- 27048 Reactivation of Granular Carbon in an Infrared Traveling Belt Furnace (EPA/600/S2-87/048)
- 27076 Removal of Uranium from Drinking Water by Ion Exchange and Chemical Clarification (EPA/600/S2-87/076)
- 27082 Two Test Procedures for Radon in Drinking Water: Interlaboratory Collaborative Study (EPA/600/S2-87/082)

- 27088 Decision Support System for Drinking Water Research Using Microcomputers and Mainframes (EPA/600/S2-87/088)
- 27109 Reverse Osmosis Treatment to Remove Inorganic Contaminants from Drinking Water (EPA/600/S2-87/109)
- 28014 A Selection Guide for Volatilization Technologies for Water Treatment (EPA/600/S2-88/014)
- 28039 Radium Removal for a Small Community Water Supply System (EPA/600/S2-88/039)
- 28057 Manganese Dioxide Coated Filters for Removing Radium from Drinking Water (EPA/600/S2-88/057)
- 29012 Uranium Removal from Drinking Water Using a Small Full-Scale System (EPA/600/S2-89/012)
- 29019 Protozoan Sources of Spontaneous Coliform Occurrence in Chlorinated Drinking Water (EPA/600/S2-89/019)
- 29027 Point-of-Entry Drinking Water Treatment Systems for Superfund Applications (EPA/600/S2-89/027)
- 29029 Removal of DBCP from Groundwater, Volume 1, POE/POU Treatment Devices Institutional and Jurisdictional Factors (EPA/600/ S2-89/029)
- 29030 Nutrients for Bacterial Growth in Drinking Water Bioassay Evaluation (EPA/600/S2-89/030)
- 29032 Removal of Humic Substances and Algae by Dissolved Air Flotation (EPA/600/S2-89/032)
- 29046 Predicting the Inactivation of *Giardia lamblia* A Mathematical and Statistical Model (EPA/600/S2-89/046)
- 29050 Point-of-Use Treatment of Drinking Water in San Ysidro, NM (EPA/600/S2-89/050)
- 31016 Microbial Transformation Rate Constants of Structurally Diverse Man-Made Chemicals (EPA/600/S3-91/016)
- 46040 USEPA Method Study, Method 510.1 The Determination of the Maximum Total Trihalomethane Potential (EPA/600/S4-86/040)
- 49002 Experimental Design and Data Analysis Applicable to Assays for Monitoring Waterborne Viruses (EPA/600/S4-89/002)
- 57001 Analysis of Costs for the Treatment of Dental Fluorosis (EPA/ 600/S5-87/001)
- 57002 Planning Models for Urban Water Supply Expansion (EPA/ 600/S5-87/002)
- 57003 Statistical Models for Water Main Failures (EPA/600/S5-87/003)

## Ecological Assessment

- 21043 Regional Assessment of Aquifer Vulnerability and Sensitivity in the Conterminous United States (EPA/600/S2-91/043)

- 31019 Preliminary Testing, Evaluation and Sensitivity Analysis for the Terrestrial Ecosystem Exposure Assessment Model (TEEM) (EPA/600/S3-91/019)
- 31051 **Forest Health Monitoring Plot Design and Logistics Study (EPA/600/S3-91/051)**
- 36057 GETS, a Simulation Model for Dynamic Bioaccumulation of Nonpolar Organics by Gill Exchange A Users' Guide (EPA/600/S3-86/057)
- 37006 Response of Benthic Ecosystems to Deep Ocean Sewage Outfalls in Hawaii A Nutrient Cycling Approach to Biological Impact Assessment and Monitoring (EPA/600/S3-87/006)
- 37011 Physiological Impact of Dredged Sediment on Two Benthic Species (EPA/600/S3-87/011)
- 37016 Field Validation of Multi-Species Laboratory Test Systems for Estuarine Benthic Communities (EPA/600/S3-87/016)
- 37038 FGETS (Food and Gill Exchange of Toxic Substances) A Simulation Model for Predicting Bioaccumulation of Nonpolar Organic Pollutants by Fish (EPA/600/S3-87/038)
- 39011 An Automated Monitoring System for Fish Physiology and Toxicology (EPA/600/S3-89/011)
- 41026 **Example Environmental Assessment Report for Estuaries (EPA/600/S4-91/026)**
- 86029 AEERL Procedures Manual Level I Environmental Assessment Terrestrial Ecological Tests (EPA/600/S8-86/029)

## Global Climate Change

- 21056 **Manual for Non-CFC Aerosol Packaging: Conversion from CFC to Hydrocarbon Propellants (EPA/600/S2-91/056)**
- 28003 Control Technology Overview Report CFC Emissions from Rigid Foam Manufacturing (EPA/600/S2-88/003)
- 28004 Control Technology Overview Report CFC-11 Emissions from Flexible Polyurethane Foam Manufacturing (EPA/600/S2-88/004)
- 29037 Potential Technologies for Collection and Destruction of CFCs, Halons and Related Compounds (EPA/600/S2-89/037)
- 29062 Aerosol Industry Success in Reducing CFC Propellant Usage (EPA/S2-89/062)
- 30026 Strategies for the Development of Climate Scenarios for Impact Assessment (EPA/600/S3-90/026)
- 30089 An Overview of Climate Information Needs for Ecological Effects Models (EPA/600/S3-90/089)
- 31070 **Tropospheric Nitrogen: The Influence of Anthropogenic Sources on Distributions and Deposition (EPA/600/S3-91/070)**



- 31074 **The Role of Climate in Forest Monitoring and Assessment: A New England Example (EPA/600/S3-91/074)**
- 38046 Climate Change and its Interaction with Air Chemistry Perspectives and Research Needs (EPA/600/S3-88/046)
- 71010 **Experimental Investigation of PIC Formation in CFC Incineration (EPA/600/S7-91/010)**
- 79011 Technologies for CFC/Halon Destruction (EPA/600/S7-89/011)
- 80071 Literature Review of Greenhouse Gas Emissions from Biogenic Sources (EPA/600/S8-90/071)
- 88106 Area Source Documentation for the 1985 National Acid Precipitation Assessment Program Inventory (EPA/600/S8-88/106)
- 89042 Assessment of National and Regional Acid Deposition Precursor Emission Trends (EPA/600/S8-89/042)
- 91024 Proceedings EPA/NGA Workshop on Global Climate and State Actions, December 3-4, 1990 (EPA/600/S9-91/024)
- 92007 **Demonstration of Fuel Cells to Recover Energy from Landfill Gas: Phase I Final Report: Conceptual Study (EPA/600/SR-92/007)**
- 96010 Proceedings Second Annual Acid Deposition Emission Inventory Symposium (November 1985) (EPA/600/S9-86/010)
- 96017 U S EPA Workshop to Develop a Simple Model for Acid Deposition—Final Report (EPA/600/S9-86/017)
- 96018 Workshop on Model Evaluation Protocols Chairman's Report (EPA/600/S9-86/018)

## Groundwater

- 20002 A New Approach and Methodologies for Characterizing the Hydrogeologic Properties of Aquifers (EPA/600/S2-90/002)
- 20009 Denitrification in Nonhomogeneous Laboratory Scale Aquifers 1 Preliminary Model for Transport and Fate of a Single Compound (EPA/600/S2-90/009)
- 20022 A Feasibility Study of the Effectiveness of Drilling Mud as a Plugging Agent in Abandoned Wells (EPA/600/S2-90/022)
- 21010 Movement of Bacteria through Soil and Aquifer Sand (EPA/600/S2-91/010)
- 21014 Denitrification in Nonhomogeneous Laboratory Scale Aquifers 4 Hydraulics, Nitrogen Chemistry, and Microbiology in a Single Layer (EPA/600/S2-91/014)
- 21033 The Swelling Properties of Soil Organic Matter and Their Relation to Sorption of Non-Ionic Organic Compounds (EPA/600/S2-91/033)
- 21037 Chemicals Stored in USTs Characteristics and Leak Detection (EPA/600/S2-91/037)

- 21042 Modeling Multiphase Organic Chemical Transport in Soils and Ground Water (EPA/600/S2-91/042)
- 21044 **Volumetric Leak Detection in Large Underground Storage Tanks (EPA/600/S2-91/044)**
- 21047 **Removal of DBCP from Groundwater Volume 2 Field Pilot Plant Operation (EPA/600/S2-91/047)**
- 21062 **A Model of Virus Transport in Unsaturated Soil (EPA/600/S2-91/062)**
- 21064 **Identification of Sources of Ground-Water Salinization Using Geochemical Techniques (EPA/600/S2-91/064)**
- 21065 **The RETC Code for Quantifying the Hydraulic Functions of Unsaturated Soils (EPA/600/S2-91/065)**
- 26108 Retention of Zinc, Cadmium, Copper, and Lead by Geologic Materials (EPA/600/S2-86/108)
- 26109 Geotechnical Analysis for Review of Dike Stability (GARDS) (EPA/600/S2-86/109)
- 26114 Stochastic Prediction of Dispersive Contaminant Transport (EPA/600/S2-86/114)
- 27035 DRASTIC A Standardized System for Evaluating Ground Water Pollution Potential Using Hydrogeologic Settings (EPA/600/S2-87/035)
- 27101 Physics of Immiscible Flow in Porous Media (EPA/600/S2-87/101)
- 28046 Hydrologic-Hydrochemical Characterization of Texas Gulf Coast Saline Formations Used for Deep-Well Injection of Chemical Wastes (EPA/600/S2-88/046)
- 28064 Treatment of Hazardous Landfill Leachates and Contaminated Groundwater (EPA/600/S2-88/064)
- 29028 Ground Water Modeling An Overview and Status Report (EPA/600/S2-89/028)
- 29035 Kinematic Modeling of Multiphase Solute Transport in the Vadose Zone (EPA/600/S2-89/035)
- 29040 The Establishment of a Groundwater Research Data Center for Validation of Subsurface Flow and Transport Models (EPA/600/S2-89/040)
- 31017 Sorption of Ionizable Organic Compounds to Sediments and Soils (EPA/600/S3-91/017)
- 31049 **Temperature Scenario Development Using Regression Methods (EPA/600/S3-91/049)**
- 36002 EPA Complex Terrain Model Development Description of a Computer Data Base from Small Hill Impaction Study, No 2, Hogback Ridge, New Mexico (EPA/600/S3-86/002)
- 40028 Field Comparison of Ground-Water Sampling Devices for Hazardous Waste Sites An Evaluation Using Volatile Organic Compounds (EPA/600/S4-90/028)
- 48001 Development of a Capillary Wick Unsaturated Zone Pore Water Sampler (EPA/600/S4-88/001)

48033	Geo-EAS (Geostatistical Environmental Assessment Software) User's Guide (EPA/600/S4-88/033)	20039	Minimization and Control of Hazardous Combustion By-Products (EPA/600/S2-90/039)
49032	Sampling Frequency for Ground-Water Quality Monitoring (EPA/600/S4-89/032)	20041	Fundamental Approach to Service Life of Flexible Membrane Liners (FML's) (EPA/600/S2-90/041)
60004	Laboratory Investigation of Residual Liquid Organics from Spills, Leaks, and the Disposal of Hazardous Wastes in Groundwater (EPA/600/S6-90/004)	20042	EPA Mobile Incineration Systems Modifications, Testing and Operations—February 1986 to June 1989 (EPA/600/S2-90/042)
69002	Assessment of the Potential for Transport of Dioxins and Codisposed Materials to Groundwater (EPA/600/S6-89/002)	20043	The Fate of Trace Metals in a Rotary Kiln Incinerator with a Venturi/Packed Column Scrubber (EPA/600/S2-90/043)
80004	Geostatistics for Waste Management A User's Manual for the GEOPACK (Version 1 0) Geostatistical Software System (EPA/600/S8-90/004)	20055	Characterization and Treatment of Wastes from Metal-Finishing Operations (EPA/600/S2-90/055)
80039	OASIS Parameter Estimation System for Aquifer Restoration Models--User's Manual Version 2 0 (EPA/600/S8-90/039)	21002	Compilation of Information on Alternative Barriers for Liner and Cover Systems (EPA/600/S2-91/002)
86004	EPA Ground-Water Research Programs (EPA/600/S8-86/004)	21008	Factors Controlling Minimum Soil Liner Thickness (EPA/600/S2-91/008)
88008	Laboratory Protocol for Determining Fate of Waste Disposed in Deep Wells (EPA/600/S8-88/008)	21012	Feasibility of Hydraulic Fracturing of Soil to Improve Remedial Actions (EPA/600/S2-91/012)
88067	A Computer Data Base from EPA's Complex Terrain Field Studies Description of a SAS Computer Data Base from Tracer Field Studies at Cinder Cone Butte, ID, Hogback Ridge, NM and the Tracy Power Plant, NV (EPA/600/S8-88/067)	21016	Forced Air Ventilation for Remediation of Unsaturated Soils Contaminated by VOC (EPA/600/S2-91/016)
88075	Selection Criteria for Mathematical Models Used in Exposure Assessments Ground-Water Models (EPA/600/S8-88/075)	21017	Migration of Hazardous Substances through Soils (EPA/600/S2-91/017)
88093	BIOPLUME II — Computer Model of Two-Dimensional Contaminant Transport Under the Influence of Oxygen Limited Biodegradation in Ground Water (User's Manual Version 1 0, Preprocessor Source Code Version 1 0, Source Code Version 1 0) (EPA/600/S8-88/093)	21030	Waste Minimization Opportunity Assessment Naval Undersea Warfare Engineering Station, Keyport, WA (EPA/600/S2-91/030)
		21032	The Fate of Trace Metals in a Rotary Kiln Incinerator with a Single-Stage Ionizing Wet Scrubber (EPA/600/S2-91/032)
		21040	Compatibility of Flexible Membrane Liners and Municipal Solid Waste Leachates (EPA/600/S2-91/040)
		21045	Separation of Hazardous Organics by Low Pressure Reverse Osmosis Membranes—Phase II, Final Report (EPA/600/S2-91/045)
		21049	A Comparative Evaluation of Two Extraction Procedures: The TCLP and the EP (EPA/600/S2-91/049)
		21067	Evaluation of Five Waste Minimization Technologies at the General Dynamics Pomona Division Plant (EPA/600/S2-91/067)
		26012	Guidance Manual on Overtopping Control Techniques for Hazardous Waste Impoundments (EPA/600/S2-86/012)
		26020	Grouting Techniques in Bottom Sealing of Hazardous Waste Sites (EPA/600/S2-86/020)
		26028	Preliminary Assessment of Hazardous Waste Pretreatment as an Air Pollution Control Technique (EPA/600/S2-86/028)
		26030	A Requirements Study of an Automated Advisory System for Review of RCRA Permits (EPA/600/S2-86/030)

## Hazardous Waste/Contaminated Soils

20024	Emission Factors for Iron and Steel Sources Criteria and Toxic Pollutants (EPA/S2-90/024)		
20025	Relationship of Laboratory- and Field-Determined Hydraulic Conductivity in Compacted Clay Layer (EPA/600/S2-90/025)		
20026	Treating Chlorinated Waste with the KPEG Process (EPA/600/S2-90/026)		
20029	Development of Data Base on Chemical Migration from Polymeric Material (EPA/600/S2-90/029)		
20032	Recovery of Metals Using Aluminum Displacement (EPA/600/S2-90/032)		
20034	Biological Degradation of Cyanide by Nitrogen-Fixing Cyanobacteria (EPA/600/S2-90/034)		
20035	Metal Recovery/Removal Using Non-Electrolytic Metal Recovery (EPA/600/S2-90/035)		

26035	Evaluation and Disposal of Waste Materials Within 19 Test Lysimeters at Center Hill (EPA/600/S2-86/035)	27005	Near Critical CO <sub>2</sub> Extraction of Hazardous Organics from Acrylonitrile, Pesticide and Steel Mill Wastes (EPA/600/S2-87/005)
26038	Interim Report on Non-Flame Hazardous Waste Thermal Destruction (EPA/600/S2-86/038)	27015	Evaluation of Flexible Membrane Liner Seams After Chemical Exposure and Simulated Weathering (EPA/600/S2-87/015)
26040	Investigation of the Thermal Destructibility of Hazardous Wastes Using the Thermal Decomposition Analytical System (EPA/600/S2-86/040)	27016	Water Quality Characterization of an Eastern Coal Slurry (EPA/600/S2-87/016)
26048	Field Evaluation of Hazardous Waste Pretreatment as an Air Pollution Control Technique (EPA/600/S2-86/048)	27020	Dewatering of Dilute Aqueous Hazardous Wastes Using Reversible Gel Absorption (EPA/600/S2-87/020)
26049	Reclamation of Alkaline Ash Piles (EPA/600/S2-86/049)	27025	Prediction/Mitigation of Subsidence Damage to Hazardous Waste Landfill Covers (EPA/600/S2-87/025)
26057	Estimating Leachate Production from Closed Hazardous Waste Landfills (EPA/600/S2-86/057)	27037	An Evaluation of Pristine Lignin for Hazardous Waste Treatment (EPA/600/S2-87/037)
26058	Avoiding Failure of Leachate Collection and Cap Drainage Systems (EPA/600/S2-86/058)	27039	Design, Construction, and Maintenance of Cover Systems for Hazardous Waste An Engineering Guidance Document (EPA/600/S2-87/039)
26071	Evaluation of Volatilization of Hazardous Constituents at Hazardous Waste Land Treatment Sites (EPA/600/S2-86/071)	27043	Composition of Leachates from Actual Hazardous Waste Sites (EPA/600/S2-87/043)
26073	Critical Review and Summary of Leachate and Gas Production from Landfills (EPA/600/S2-86/073)	27044	Retrospective Evaluation of the Effects of Selected Industrial Wastes on Municipal Solid Waste Stabilization in Simulated Landfills (EPA/600/S2-87/044)
26085	Geotextiles for Drainage, Gas Venting, and Erosion Control at Hazardous Waste Sites (EPA/600/S2-86/085)	27049	Verification of the Lateral Drainage Component of the Model Using Physical Models (EPA/600/S2-87/049)
26093	Incinerator and Cement Kiln Capacity for Hazardous Waste Treatment (EPA/600/S2-86/093)	27050	Verification of the Hydrologic Evaluation of Landfill Performance (HELP) Model Using Field Data (EPA/600/S2-87/050)
26095	Technical Resource Document Treatment Technologies for Solvent Containing Wastes (EPA/600/S2-86/095)	27051	PCB Trial Burn Report for the U.S. EPA Combustion Research Facility Liquid Injection Incinerator System (EPA/S2-87/051)
26098	Preliminary Assessment of Air Emissions from Aerated Waste Treatment Systems at TSDFs (EPA/600/S2-86/098)	27054	Distribution of Trace Element Emissions from the Liquid Injection Incinerator Combustion Research Facility (EPA/600/S2-87/054)
26101	Dioxin and Furan Contamination in the Manufacture of Halogenated Organic Chemicals (EPA/600/S2-86/101)	27062	Quantification of Leak Rates Through Holes in Landfill Liners (EPA/600/S2-87/062)
26105	Report for Non-Flame Hazardous Waste Thermal Destruction (EPA/600/S2-86/105)	27064	Total Mass Emissions from a Hazardous Waste Incinerator (EPA/600/S2-87/064)
26120	Evaluation of Spark Source Mass Spectrometry and Plasma Emission Spectroscopy for Comprehensive Elemental Analysis of Environmental Samples (EPA/600/S2-86/120)	27067	Development of Chemical Compatibility Criteria for Assessing Flexible Membrane Liners (EPA/600/S2-87/067)
26121	Pilot-Scale Incineration Test Burn of TCDD-Contaminated Trichlorophenol Production Waste (EPA/600/S2-86/121)	27081	Destruction and Removal of POHCs in Iron Making Blast Furnaces (EPA/600/S2-87/081)
26501	Handbook for Stabilization/Solidification of Hazardous Waste (EPA/540/S2-86/001)	27094	Case Studies of Hazardous Waste Treatment to Remove Volatile Organics (EPA/600/S2-87/094)
26502	Systems to Accelerate In Situ Stabilization of Waste Deposits (EPA/540/S2-86/002)	27095	Hazardous Waste Combustion in Industrial Processes Cement and Lime Kilns (EPA/600/S2-87/095)
27004	Characterization of PCB Transformer/Capacitor Fluids and Correlation with PCDDs and PCDFs in Soot (EPA/600/S2-87/004)	27097	Geosynthetic Design Guidance for Hazardous Waste Landfill Cells and Surface Impoundments (EPA/600/S2-87/097)

27098	Technical Resource Document Treatment Technologies for Halogenated Organic Containing Wastes, Volume I (EPA/600/S2-87/098)	28049	Quick Indicator Tests to Characterize Bentonite Type (EPA/600/S2-88/049)
27099	Technical Resource Document Treatment Technologies for Corrosive-Containing Wastes, Volume II (EPA/600/S2-87/099)	28050	Spray Combustion Studies of Surrogate Hazardous Waste Incineration (EPA/600/S2-88/050)
27102	Evaluation of the Effectiveness of Chemical Dust Suppressants on Unpaved Roads (EPA/600/S2-87/102)	28073	Field Measurements of Full-Scale Hazardous Waste Treatment Facilities - Organic Solvent Wastes (EPA/600/S2-88/073)
27103	Reclamation of Aluminum Finishing Sludges (EPA/600/S2-87/103)	29003	Capital and O & M Cost Estimates for Attached Growth Biological Wastewater Treatment Processes (EPA/600/S2-89/003)
27106	Technical Resource Document Treatment Technologies for Metal/Cyanide-Containing Wastes, Volume III (EPA/600/S2-87/106)	29004	A Method to Measure Protective Clothing Permeation Under Intermittent Chemical Contact Conditions (EPA/600/S2-89/004)
27110	Field Studies of <i>In Situ</i> Washing (EPA/600/S2-87/110)	29005	An Evaluation of the Secondary Effects of Air Stripping (EPA/600/S2-89/005)
28002	Gold/Silver Heap Leaching and Management Practices that Minimize the Potential for Cyanide Releases (EPA/600/S2-88/002)	29008	Radio Frequency Enhanced Decontamination of Soils Contaminated with Halogenated Hydrocarbons (EPA/600/S2-89/008)
28005	Copper Dump Leaching and Management Practices That Minimize the Potential for Environmental Releases (EPA/600/S2-88/005)	29010	Evaluation of Asbestos Levels in Two Schools Before and After Asbestos Removal (EPA/600/S2-89/010)
28007	Removal of Chromium from Ion Exchange Regenerant Solution (EPA/600/S2-88/007)	29013	Evaluation of Solidification/Stabilization as a Best Demonstrated Available Technology for Contaminated Soils (EPA/600/S2-89/013)
28015	Freeboard Determination and Management in Hazardous Waste Surface Impoundments (EPA/600/S2-88/042)	29018	Evaluation of Solidified Residue from Municipal Solid Waste Combustors (EPA/600/S2-89/018)
28016	Review and Evaluation of the Influence of Chemicals on the Conductivity of Soil Clays (EPA/600/S2-88/016)	29021	Continuous Performance Monitoring Techniques for Hazardous Waste Incinerators (EPA/600/S2-89/021)
28017	Factors in Assessing the Compatibility of FMLs and Waste Liquids (EPA/600/S2-88/017)	29023	Synthetic Organic Compound Rejection by Nanofiltration (EPA/600/S2-89/023)
28018	Oxidative Degradation of Organic Acids Conjugated with Sulfite Oxidation in Flue Gas Desulfurization (EPA/600/S2-88/018)	29041	Evaluation of Airborne Asbestos Concentrations Before and During an O & M Activity A Case Study (EPA/600/S2-89/041)
28021	Reactivity of Various Grouts to Hazardous Wastes and Leachates (EPA/600/S2-88/021)	29047	Observational Study of Final Cleaning and AHERA Clearance Sampling at Asbestos - Abatement Sites in New Jersey (EPA/600/S2-89/047)
28031	Destruction of Cyanide in Wastewaters Review and Evaluation (EPA/600/S2-88/031)	29048	Experimental Investigation of Critical Fundamental Issues in Hazardous Waste Incineration (EPA/600/S2-89/048)
28032	Evaluation of Biological Treatment of Pharmaceutical Wastewater with PAC Addition (EPA/600/S2-88/032)	29056	The Morphology and Microchemistry of Solidified/Stabilized Hazardous Waste Systems (EPA/600/S2-89/056)
28035	The Electrical Leak Location Method for Geomembrane Liners (EPA/600/S2-88/035)	29057	Stability of Lined Slopes at Landfills and Surface Impoundments (EPA/600/S2-89/057)
28036	Factors Affecting Trace Metal Mobility in Subsurface Soils (EPA/600/S2-88/036)	29067	Interference Mechanisms in Waste Stabilization/Solidification Processes (EPA/600/S2-89/067)
28040	Loading Point Puncturability Analysis of Geosynthetic Liner Materials (EPA/600/S2-88/040)	30006	Annual Report on Performance Audit Results for POHC Testing During RCRA Trial Burns — Status Report #2 (EPA/600/S3-90/006)
28042	Technical Considerations for De Minimis Pollutant Transport Through Polymeric Liners (EPA/600/S2-88/042)	30007	Validation of Emission Test Method for PCDD's and PCDF's (EPA/600/S3-90/007)
28048	Evaluation of Hydrologic Models in the Design of Stable Landfill Covers (EPA/600/S2-88/048)		

30009	Laboratory and Field Evaluations of Methodology for Measuring Emissions of Chlorinated Solvents from Stationary Sources (EPA/600/S3-90/009)	46021	Performance of RCRA Method 8280 for the Analysis of Dibenzo-p-Dioxins and Dibenzofurans in Hazardous Waste Samples (EPA/600/S4-86/021)
30010	Efficiency of Dioxin Recovery from Fly Ash Samples During Extraction and Cleanup Process (EPA/600/S3-90/010)	46029	Stability of Polynuclear Aromatic Compounds Collected from Air on Quartz Fiber Filters and XAD-2 Resin (EPA/600/S4-86/029)
30031	Available Models for Estimating Emissions from Bioremediation Processes A Review (EPA/600/S3-90/031)	46039	Determination of Stable Valence States of Chromium in Aqueous and Solid Waste Matrices—Experimental Verification of Chemical Behavior (EPA/600/S4-86/039)
30033	Audit Materials for Semivolatile Organic Measurements During Hazardous Waste Trial Burns (EPA/600/S3-90/033)	47015	Hazardous Waste in Selected Florida Counties (EPA/600/S4-87/015)
30052	A Chamber and Modeling Study to Assess the Photochemistry of Formaldehyde (EPA/600/S3-90/052)	47016	Survey of Vendors of External Petroleum Leak Monitoring Devices for Use with Underground Storage Tanks (EPA/600/S4-87/016)
30094	Problem POHC Reference Directory (EPA/600/S3-90/094)	47021	Evaluation of a Prototype Field-Portable X-Ray Fluorescence System for Hazardous Waste Screening (EPA/600/S4-87/021)
31071	<b>Superfund Innovative Technology Evaluation, the Delaware SITE Study, 1989 (EPA/600/S3-91/071)</b>	47025	Characterization of Household Hazardous Waste from Marin County, California, and New Orleans, Louisiana (EPA/600/S4-87/025)
36043	Measurement of Hydrolysis Rate Constants for Evaluation of Hazardous Waste Land Disposal Volume 1 Data on 32 Chemicals (EPA/600/S3-86/043)	47034	Benzene Continuous Emission Monitoring Systems for Gasoline Bulk Storage (EPA/600/S4-87/034)
36067	Project MISTT Measurements and Data Base (EPA/600/S3-86/067)	48005	Screening of Semivolatile Organic Compounds for Extractability and Aqueous Stability by SW-846 Method 3510 (EPA/600/S4-88/005)
36072	Structure-Reactivity Relationships for Predicting Environmentally Hazardous Chemicals (EPA/600/S3-86/072)	48008	Florida Hazardous Waste and Sanitary Landfill Report (EPA/600/S4-88/008)
37009	Report on the Usefulness of AVHRR and CZCS Sensors for Delineating Potential Disposal Operations at the 106-Mile Site (EPA/600/S3-87/009)	48038	Production and Management of Small-Quantity-Generator Hazardous Waste in Florida (EPA/600/S4-88/038)
37019	Measurement of Hydrolysis Rate Constants for Evaluation of Hazardous Waste Land Disposal Volume 2 Data on 54 Chemicals (EPA/600/S3-87/019)	48040	Evaluation of Control Chart Methodologies for RCRA Waste Sites (EPA/600/S4-88/040)
38028	Measurement of Hydrolysis Rate Constants for Evaluation of Hazardous Waste Land Disposal Volume 3 Data on 70 Chemicals (EPA/600/S3-88/028)	49007	Biological Monitoring Systems for Hazardous Waste Sites (Production and Analysis of Analytical Reference Materials) (EPA/600/S4-89/007)
39008	Evaluation of the Flux Chamber Method for Measuring Volatile Organic Emissions from Surface Impoundments (EPA/600/S3-89/008)	49008	The Use of Industrial Hygiene Samplers for Soil-Gas Measurement (EPA/600/S4-89/008)
39025	A Climatology of Temperature and Precipitation Variability in the United States (EPA/600/S3-89/025)	50504	Development of Electro-Acoustic Soil Decontamination (ESD) Process for In Situ Applications (EPA/540/S5-90/004)
40012	Proximity of Sanitary Landfills to Wetlands and Deepwater Habitats An Evaluation and Comparison of 1,153 Sanitary Landfills in 11 States (EPA/600/S4-90/012)	60002	Pathogen Risk Assessment for Land Application of Municipal Sludge Volume I Methodology and Computer Model, Volume II User's Manual (EPA/600/S6-90/002)
41011	Molecular Optical Spectroscopic Techniques for Hazardous Waste Site Screening (EPA/600/S4-91/011)	71008	<b>Waste Combustion System Analysis (EPA/600/S7-91/008)</b>
46015	EPA Method Study 33 Ignitability Characteristics of Solids (EPA/600/S4-86/015)	76013	Environmental Assessment of an Enhanced Oil Recovery Steam Generator Equipped with an EPA Heavy Oil Low-NO <sub>x</sub> Burner (EPA/600/S7-86/013)
46016	Synthesis of Aromatic Polyimides for Use as Solid Sorbents (EPA/600/S4-86/016)	76017	Evaluation of Conventional and Advanced Coal Cleaning Techniques (EPA/600/S7-86/017)

- 76019 Assessment of Solid Waste Characteristics and Control Technology for Oil Shale Retorting (EPA/600/S7-86/019)
- 76027 Field Evaluation of Windscreens as a Fugitive Control Measure for Material Storage Piles (EPA/600/S7-86/027)
- 76033 Preliminary Operation of the Fluidized-Bed Combustion Facility for Hazardous Waste Disposal Research Test Results and Evaluation (EPA/600/S7-86/033)
- 76035 Leaching and Hydraulic Properties of Retorted Oil Shale Including Effects from Codisposal of Wastewater (EPA/600/S7-86/035)
- 76037 Assessment of Coal Cleaning Technology Final Report (EPA/600/S7-86/037)
- 76038 Asphaltic Concrete Industry Source Category Report (EPA/600/S7-86/038)
- 76046 Pollution Control Technical Manual for Unishale B and Unishale C Oil Shale Retorting (EPA/600/S7-86/046)
- 77008 Evaluation of Retorted Oil Shale as a Liner Material for Retorted Shale Disposal Sites (EPA/600/S7-87/008)
- 77027 Fundamental Combustion Research Applied to Pollution Formation Volume IV Engineering Analysis (EPA/600/S7-87/027)
- 78001 Fundamental Combustion Research Applied to Pollution Formation Volume II Physics and Chemistry of Two-Phase Systems (EPA/600/S7-88/001)
- 78002 Fundamental Combustion Research Applied to Pollution Formation Volume III Support Studies Measurement Studies (EPA/600/S7-88/002)
- 78010 Testing of Toxicology and Emissions Sampling Methodology for Ocean Incineration of Hazardous Wastes (EPA/600/S7-88/010)
- 78017 Mixture Effects in the Catalytic Oxidation of VOCs in Air (EPA/600/S7-88/017)
- 78021 Kinetic Modeling of NO<sub>x</sub> Formation and Destruction and Combustibles Burnout (EPA/600/S7-88/021)
- 81039 Correlation of Florida Soil-Gas Permeabilities with Grain Size, Moisture, and Porosity (EPA/600/S8-91/039)
- 86037 Sampling and Analysis for High-Molecular-Weight Polar Organic Compounds (EPA/600/S8-86/037)
- 86039 Mobile Laboratory for On-Site Monitoring of Hazardous Waste Incinerators (EPA/600/S8-86/039)
- 87021 Direct/Delayed Response Project Quality Assurance Plan for Soil Sampling, Preparation, and Analysis (EPA/600/S8-87/021)
- 87023 Environmental Methods Testing Site Users' Guide (EPA/600/S8-87/023)
- 87036 Soil Gas Sensing for Detection and Mapping of Volatile Organics (EPA/600/S8-87/036)
- 87037 POHC Analysis Methods for Hazardous Waste Incineration (EPA/600/S8-87/037)
- 87056 Manual of Procedures and Criteria for Inspecting the Installation of Flexible Membrane Liners in Hazardous Waste Facilities (EPA/600/S8-87/056)
- 88001 Interactive Simulation of the Fate of Hazardous Chemicals During Land Treatment of Oily Wastes RITZ User's Guide (EPA/600/S8-88/001)
- 89046 Soil Sampling Quality Assurance User's Guide Second Edition (EPA/600/S8-89/046)
- 89080 POHCs and PICs Screening Protocol (EPA/600/S8-89/080)
- 89102 MOUSE. A Computerized Uncertainty Analysis System (EPA/600/S8-89/102)
- 97011 PIC Analysis Methods (EPA/600/S9-87/011)
- ## Health Assessment
- 16002 Final Report on the Evaluation of Four Toxic Chemicals in an *In Vivo/In Vitro* Toxicological Screen Acrylamide, Chlordecone, Cyclophosphamide, and Diethylstilbestrol (EPA/600/S1-86/002)
- 16004 Cadmium Intake Via Oysters and Health Effects in New Zealand Cadmium Intake Metabolism and Effects in People with a High Intake of Oysters in New Zealand (EPA/600/S1-86/004)
- 17002 Millimeter-Wave Emissivity of Cellular Systems (EPA/600/S1-87/002)
- 17004 Final Report on CR 807392 U.S. EPA Cooperative Agreement with the University of North Carolina at Chapel Hill Center for Environmental Medicine (EPA/600/S1-87/004)
- 17010 Effects of 4,4'-Methylene-bis-(2-Chloroaniline) and Benzotrichloride in Human and/or Animal Tissue (EPA/600/S1-87/010)
- 17013 The Kinetics of Ingested <sup>222</sup>Rn in Humans Determined from Measurements with <sup>133</sup>Xe (EPA/600/S1-87/013)
- 18006 Characterization of the Ah Receptor (EPA/600/S1-88/006)
- 19005 Interaction Between Water Pollutants. Quantitative Electron Microscopy of Hepatic Morphological Changes Induced by 1,2-Dichloroethane (DCE) and 1,1-Dichloroethylene (VDC) (EPA/600/S1-89/005)
- 21059 Improvement of PMN Review Procedures to Estimate Protective Clothing Performance: Executive Summary Report (EPA/600/S2-91/059)
- 26064 User's Guide for the Automated Inhalation Exposure Methodology (IEM) Addendum 1 (EPA/600/S2-86/064)
- 27071 Sensitivity Analysis for Application of the Inhalation Exposure Methodology (IEM) to Studies of Hazardous Waste Management Facilities (EPA/600/S2-87/071)
- 27083 Sampling Regimes and Bacteriological Tests for Coliform Detection in Groundwater (EPA/600/S2-87/083)

28028 Ethylene Oxide Control Technology Development for Hospital Sterilizers (EPA/600/S2-88/028)

29052 Assessing Chemical Releases and Worker Exposures from a Filter Press (EPA/600/S2-89/052)

29063 Exposure to Chemical Additives from Polyvinyl Chloride Polymer Extrusion Processing (EPA/600/ S2-89/063)

36049 Mutagenic Activities of Wood Smoke Photooxidation Products (EPA/600/S3-86/049)

38055 PM<sub>10</sub> Source Measurement Methodology Field Studies (EPA/600/S3-88/055)

60003 Methodology for Assessing Health Risks Associated with Indirect Exposure to Combustor Emissions (EPA/600/S6-90/003)

**61006 Preliminary Risk Assessment for Bacteria in Municipal Sewage Sludge Applied to Land (EPA/600/S6-91/006)**

61004 Development of Risk Assessment Methodology for Municipal Sludge Incineration (EPA/600/S6-91/004)

67001 Evaluation of the Carcinogenicity of Unleaded Gasoline (EPA/600/S6-87/001)

67002 The Total Exposure Assessment Methodology (TEAM) Study (EPA/600/S6-87/002)

67007 Investigation of Cancer Risk Assessment Methods (EPA/600/S6-87/007)

67008 Recommendations for and Documentation of Biological Values for Use in Risk Assessment (EPA/600/S6-87/008)

68003 Pathogen Risk Assessment Feasibility Study (EPA/600/S6-88/003)

68004 Reference Physiological Parameters in Pharmacokinetic Modeling (EPA/600/S6-88/004)

68008 Estimating the Risk of Lung Cancer from Inhalation of Radon Daughters Indoors Review and Evaluation (EPA/600/S6-88/008)

81007 Feasibility of Environmental Monitoring and Exposure Assessment for a Municipal Waste Combustor at Rutland, Vermont (EPA/600/S8-91/007)

81041 Health Effects Assessment Documents (EPA/600/S8-91/041)

81042 Updated Health Effects Assessment Documents (EPA/600/S8-91/042)

**81045 Selection of Adduct-Forming Chemicals for Human Monitoring Studies (EPA/600/S8-91/045)**

84001F Health Assessment Document for Hexachlorocyclopentadiene (EPA/600/S8-84/001F)

84015F Health Assessment Document for Chlorinated Benzenes (EPA/600/S8-84/015F)

87002 Characteristics, Deposition and Fate of Inhaled Particulate Matter (EPA/600/S8-87/002)

87042 Selection Criteria for Mathematical Models Used in Exposure Assessments Surface Water Models (EPA/600/S8-87/042)

88072 Health and Environmental Effects Profiles Fiscal Year 1984 (EPA/600/S8-88/072)

89043 Exposure Factors Handbook (EPA/600/S8-89/043)

89068 Applications of an Exact NOAEL--Procedure for Dichotomous Data from Animal Experiments (EPA/600/S8-89/068)

96004 Report on the Research Planning Workshop on Bioavailability of Dioxins September 1984 (EPA/600/S9-86/004)

97013 Report of the EPA Workshop on the Development of Risk Assessment Methodologies for Tumor Promoters (EPA/600/S9-87/013)

98011 A Computerized Bibliographic Literature Information System for Total Human Exposure Monitoring Research (EPA/600/S9-88/011)

### Indoor Air Quality

20053 Evaluation of Two Cleaning Methods for the Removal of Asbestos Fibers from Carpets (EPA/600/S2-90/053)

21003 Assessment of Asbestos Removal Carried Out Using EPA Purple Book Guidance (EPA/600/S2-91/003)

21004 Asbestos Fiber Reentrainment During Dry Vacuuming and Wet Cleaning of Asbestos-Contaminated Carpet (EPA/600/S2-91/004)

31013 Two Indoor Air Exposure Modeling Studies CONTAM Modeling Results and Serial Correlation Effects (EPA/600/S3-91/013)

39055 Statistical Comparison of Results of Two Indoor Air Pilot Studies (EPA/600/S3-89/055)

40010 Compendium of Methods for the Determination of Air Pollutants in Indoor Air (EPA/600/S4-90/010)

**41006 Time Spent in Activities, Locations, and Microenvironments: A California National Comparison (EPA/600/S4-91/006)**

47031 Evaluation of Sampling and Analytical Methods for Nicotine and Polynuclear Aromatic Hydrocarbon in Indoor Air (EPA/600/S4-87/031)

70004 Characterization of Population and Usage of Unvented Kerosene Space Heaters (EPA/600/S7-90/004)

70006 Comparison of Measurement Techniques for Quantifying Selected Organic Emissions from Kerosene Space Heaters (EPA/600/S7-90/006)

70016 Investigation of Radon Entry and Effectiveness of Mitigation Measures in Seven Houses in New Jersey (EPA/600/S7-90/016)

80050 Testing of Indoor Radon Reduction Techniques in Central Ohio Houses Phase 2 (Winter 1988-1989) (EPA/600/S8-90/050)

80061	Radon Mitigation Studies Nashville Demonstration (EPA/600/S8-90/061)	88087	Radon-Resistant Residential New Construction (EPA/600/S8-88/087)
80062	Interim Radon-Resistant Construction Guidelines for Use in Florida—1989 (EPA/600/S8-90/062)	88097	Indoor Air Quality Model Version 1.0 (EPA/600/S8-88/097)
80070	Identification of Candidate Houses for North Florida Portion of the Florida Radon Mitigation Project (EPA/600/S8-90/070)	88098	Follow-Up Alpha-Track Monitoring in 40 Eastern Pennsylvania Houses with Indoor Radon Reduction Systems (Winter 1987-88) (EPA/600/S8-88/098)
80072	Summary of EPA's Radon Reduction Research in Schools During 1989-90 (EPA/600/S8-90/072)	89001	Radon Reduction and Radon Resistant Construction Demonstrations in New York (EPA/600/S8-89/001)
80074	Classification of Materials as Potential Sources of Indoor Air Pollution (EPA/600/S8-90/074)	89071	Testing of Indoor Radon Reduction Techniques in Central Ohio Houses Phase 1 (Winter 1987-88) (EPA/600/S8-89/071)
80076	Testing of Indoor Radon Reduction Techniques in Basement Houses Having Adjoining Wings (EPA/600/S8-90/076)	89074	Indoor Air Sources Using Small Environmental Test Chambers to Characterize Organic Emissions from Indoor Materials and Products (EPA/600/S8-89/074)
80081	Follow-Up Annual Alpha-Track Monitoring in 40 Eastern Pennsylvania Houses with Indoor Radon Reduction Systems (December 1988 - December 1989) (EPA/600/S8-90/081)	89083	Follow-up Alpha-Track Monitoring in 40 Eastern Pennsylvania Houses with Indoor Radon Reduction Systems (Winter 1988-89) (EPA/600/S8-89/083)
81010	Follow-Up Durability Measurements and Mitigation Performance Improvement Tests in 38 Eastern Pennsylvania Houses Having Indoor Radon Reduction Systems (EPA/600/S8-91/010)	91026	<b>Proceedings: The 1990 International Symposium on Radon and Radon Reduction Technology (EPA/600/S9-91/026)</b>
81013	EXPOSURE Version 2, A Computer Model for Analyzing the Effects of Indoor Air Pollutant Sources on Individual Exposure (EPA/600/S8-91/013)	91037	<b>Proceedings: The 1991 International Symposium on Radon and Radon Reduction Technology (EPA/600/S9-91/037)</b>
81014	Indoor Air Quality Simulator for Personal Computers (EPA/600/S8-91/014)	91044	<b>Proceedings of the Workshop on Radon Potential Mapping, Florida Radon Research Program (EPA/600/S9-91/044)</b>
81200	<b>Parametric Analysis of the Installation and Operating Costs of Active Soil Depressurization Systems for Residential Radon Mitigation (EPA/600/S8-91/200)</b>	96020	Proceedings of an Engineering Foundation Conference on Management of Atmospheres in Tightly Closed Spaces (EPA/600/S9-86/020)
81206	<b>Recommended Foundation Fill Materials Construction Standard of the Florida Radon Research Program (EPA/600/S8-91/206)</b>	97014	Characterization of Indoor Sources of Air Contaminants Report on a Technical Conference (EPA/600/S9-87/014)
81208	<b>Recommended Sub-slab Depressurization Systems Design Standard of the Florida Radon Research Program (EPA/600/S8-91/208)</b>	99006	Proceedings 1988 Symposium on Radon and Radon Reduction Technology (EPA/600/S9-89/006)
81210	<b>Development of Alternate Performance Standard for Radon Resistant Construction Based on Short-term/Long-term Indoor Radon Concentrations (EPA/600/S8-91/210)</b>	99057	Proceedings of the Radon Diagnostics Workshop, April 14-17, 1987 (EPA/600/S9-89/057)
81212	<b>Standard Measurement Protocols, Florida Radon Research Program (EPA/600/S8-91/212)</b>	<b>Industrial Wastewater</b>	
84003F	Airborne Asbestos Health Assessment Update (EPA/600/S8-84/003F)	10006	Performance Evaluation at a Long-Term Food Processing Land Treatment Site (EPA/600/S1-90/006)
86010	TUPOS — A Multiple Source Gaussian Dispersion Algorithm Using On-Site Turbulence Data (EPA/600/S8-86/010)	21041	Recovery of Metals from Sludges and Wastewaters (EPA/600/S2-91/041)
86011	MPDA-1 A Meteorological Processor for Diffusion Analysis User's Guide (EPA/600/S8-86/011)	27007	Evaluation of the Problems Associated with Application of Low Solvent Coatings to Wood Furniture (EPA/600/S2-87/007)
87012	Multimedia Approaches to Assessment and Management of Hazardous Air Contaminants (EPA/600/S8-87/012)	29025	Effects of Burn Rate, Wood Species, Moisture Content, and Weight of Wood Loaded on Woodstove Emissions (EPA/600/S2-89/025)
		30039	Galvanized Steel--National Distribution Study (EPA/600/S3-90/039)



30054	Laboratory Method to Estimate Hydrogen Chloride Emission Potential Before Incineration of a Waste (EPA/600/S3-90/054)	77012	Environmental Assessment of a Wood-Waste-Fired Industrial Watertube Boiler (EPA/600/S7-87/012)
30065	Sampling and Analysis of Butadiene at a Neoprene Plant (EPA/600/S3-90/065)	77013	Effective Mixing Processes for SO <sub>x</sub> , Sorbent, and Coal Combustion Products (EPA/600/S7-87/013)
36004	Guidelines for Using OZIPM-3 with CBM-X or Optional Mechanisms (EPA/600/S3-86/004)	77014	Status and Evaluation of Calcitic SO <sub>4</sub> Capture Analysis of Facilities Performance (EPA/600/S7-87/014)
36013	Validation of OH Radical Reaction Rate Constant Test Protocol (EPA/600/S3-86/013)	77016	Evaluation of Boiler Design Modifications for Enhanced LIMB Application (EPA/600/S7-87/016)
36029	Investigation of the Formation of a Portland Cement Plant Detached Plume (EPA/600/S3-86/029)	77017	Regeneration of Refrigerated Methanol in Conditioning Gases from Coal (EPA/600/S7-87/017)
39004	Sampling and Analysis of Butadiene at a Synthetic Rubber Plant (EPA/600/S3-89/004)	77018	Evaluation of Utility Boiler Radiant Furnace Residence Time/Temperature Characteristics Field Tests and Heat Transfer Modeling (EPA/600/S7-87/018)
39031	Materials Aerometric Database for Use in Developing Materials Damage Functions (EPA/600/S3-89/031)	77024	Pollution Control Considerations for Low- and Medium-Btu Coal Gasification Processes (EPA/600/S7-87/024)
76012	Environmental Assessment of a Coal/Water Slurry Fired Industrial Boiler (EPA/600/S7-86/012)	77028	Conceptual Designs and Cost Estimates for E-SO <sub>x</sub> Retrofits to Coal-Fired Utility Power Plants (EPA/600/S7-87/028)
76014	Environmental Assessment of a Reciprocating Engine Retrofitted with Selective Catalytic Reduction (EPA/600/S7-86/014)	78011	Development of a Breadboard CO <sub>2</sub> Laser Photoacoustic Toxic Vapor Monitor (EPA/600/S7-88/011)
76022	Literature Survey of Environmental Concerns Associated with In Situ Coal/Oil Shale Operations (EPA/600/S7-86/022)	78015	Fired Heaters Nitrogen Oxides Emissions and Controls (EPA/600/S7-88/015)
76023	Boiler Design Criteria for Dry Sorbent SO <sub>2</sub> Control with Low-NO <sub>x</sub> Burners (EPA/600/S7-86/023)	78016	Investigation for "Super-Sorbent" Commercial Processing (EPA/600/S7-88/016)
76024	Comparison of Pilot Plant Data with Predictions from the USEPA SPRAYMOD Computer Program EPA/600/S7-86/024)	78018	Mathematical Modeling of Single Droplet Trajectories in Combustor Flow Fields (EPA/600/S7-88/018)
76028	Boiler Simulator Studies on Sorbent Utilization for SO <sub>2</sub> Control (EPA/600/S7-86/028)	78019	Evaluation of Low-Emission Coal Burner Technology on Industrial Boilers (EPA/600/S7-88/019)
76030	Demonstration, Operation, and Testing of a Fabric Filter on an Industrial Boiler for an Extended Period of Time (EPA/600/S7-86/030)	78020	Evaluations of Electrostatic Precipitator Performance at Edgewater Unit 4 LIMB Demonstration (EPA/600/S7-88/020)
76047	Toxic Organic Emissions from Synfuels and Related Industrial Wastewater Treatment Systems (EPA/600/S7-86/047)	78023	Effects of Sorbent Injection for Sulfur Dioxide Removal on Particulate Control Systems for Coal-Fired Boilers (EPA/600/S7-88/023)
76051	In-Process Control of Nitrogen and Sulfur in Entrained-Bed Gasifiers (EPA/600/S7-86/051)	79001	Humidification of Flue Gas to Augment SO <sub>2</sub> Capture by Dry Sorbents (EPA/600/S7-89/001)
77005	Bench-Scale Performance Testing and Economic Analyses of Electrostatic Dry Coal Cleaning (EPA/600/S7-87/005)	79002	Woodstove Emission Sampling Methods Comparability Analysis and In-Situ Evaluation of New Technology Woodstoves (EPA/600/S7-89/002)
77009	Evaluation of Fabric Filter on Boiler 108 at the Naval Amphibious Base, Little Creek, VA (EPA/600/S7-87/009)	79003	Development of a Vortex Containment Combustor for Coal Combustion Systems (EPA/600/S7-89/003)
77010	Environmental Assessment of a Wood-Waste-Fired Industrial Firetube Boiler (EPA/600/S7-87/010)	79004	Experimental Study of High Levels of SO <sub>2</sub> Removal in Atmospheric-Pressure Fluidized-Bed Combustors (EPA/600/S7-89/004)
77011	Reburning Application to Firetube Package Boilers (EPA/600/S7-87/011)	79005	Bench-Scale Studies to Identify Process Parameters Controlling Reburning with Pulverized Coal (EPA/600/S7-89/005)

- 79006a Evaluation of FGD Dry Injection Sorbents and Additives Volume 1 Development of High Reactivity Sorbents (EPA/600/S7-89/006a)
- 79006b Evaluation of FGD Dry Injection Sorbents and Additives Volume 2 Pilot Plant Evaluation of High Reactivity Sorbents (EPA/600/S7-89/006b)
- 79007 Evaluation of Internally Staged Coal Burners and Sorbent Jet Aerodynamics for Combined SO<sub>2</sub>/NO<sub>x</sub> Control in Utility Boilers Volume 1 Testing in a 10 Million Btu/hr Experimental Furnace (EPA/600/S7-89/007)
- 79009 Evaluation of Internally Staged Coal Burners and Sorbent Jet Aerodynamics for Combined SO<sub>2</sub>/NO<sub>x</sub> Control in Utility Boilers Volume 2 Testing in a 100 Million Btu/Hr Experimental Furnace (EPA/600/S7-89/009)
- 79015 Field Evaluation of Low-Emission Coal Burner Technology on Utility Boilers (EPA/600/S7-89/015)
- 80049 Pulverized Coal Combustion Pollutant Formation and Control, 1970-1980 (EPA/600/S8-90/049)
- 86016 Lime Spray Dryer Flue Gas Desulfurization Computer Model Users Manual (EPA/600/S8-86/016)
- 86038 Coal-Cleaning and Flue Gas Desulfurization Computer Model Users Manual (EPA/600/S8-86/038)
- 87035 An Environmental Source Book on the Photovoltaics Industry (EPA/600/S8-87/035)
- 87047 English-Russian, Russian-English Glossary of Coal Cleaning Terms (EPA/600/S8-87/047)
- 88065 Industrial Boiler Furnace Sorbent Injection Algorithm Development (EPA/600/S8-88/065)
- 88071 Advanced Utility Simulation Model (EPA/600/S8-88/071)
- 88077 Description of the Industrial Combustion Emissions Model (Version 6.0) (EPA/600/S8-88/077)
- 88078 Revision of the Industrial Combustion Emissions Model to a Base Year of 1980 (EPA/600/S8-88/078)
- 88082 User's Guide for Executing OZIPM-4 with CBM-IV or Urban and Regional Modeling (EPA/600/S8-88/082)
- 88091 Industrial Boiler Low NO<sub>x</sub> Combustion Retrofit Cost Algorithm Development (EPA/600/S8-88/091)
- 88102 Baseline Emissions Forecasts for Industrial Non-Boiler Sources (EPA/600/S8-88/102)
- 88104 Projections of Regional Fuel Oil and Natural Gas Prices (EPA/600/S8-88/104)
- 90017 Control Technology Center, 1989, A Year of Growth and a Promising Future (EPA/600/S9-90/017)
- 96008 Proceedings Fifth Symposium on the Transfer and Utilization of Particulate Control Technology (EPA/600/S9-86/008)
- 96021 Proceedings 1985 Joint Symposium on Stationary Combustion NO<sub>x</sub> Control (EPA/600/S9-86/021)
- 96029 Proceedings 1986 Joint Symposium on Dry SO<sub>2</sub> and Simultaneous SO<sub>2</sub>/NO<sub>x</sub> Control Technologies (EPA/600/S9-86/029)
- 96031 Proceedings Sixth Symposium on the Transfer and Utilization of Particulate Control Technology (EPA/600/S9-86/031)
- 97004 Proceedings Tenth Symposium on Flue Gas Desulfurization, Atlanta, Georgia, November 1986 (EPA/600/S9-87/004)
- 97024 Workshop on Evaluation/Documentation of Chemical Mechanisms (EPA/600/S9-87/024)
- 98022 Control Technology Center Current Status and Future Plans (EPA/600/S9-88/022)
- 98026 Proceedings 1987 Joint Symposium on Stationary Combustion NO<sub>x</sub> Control, New Orleans, LA, March 1987 (EPA/600/S9-88/026)
- 99036 Proceedings First Combined FGD and Dry SO<sub>2</sub> Control Symposium (EPA/600/S9-89/036)
- 99046 Proceedings Seventh Symposium on the Transfer and Utilization of Particulate Control Technology (EPA/600/S9-89/046)
- ## Municipal Solid Waste
- 21005 **PROTOCOL - A Computerized Solid Waste Quantity and Composition Estimation System (EPA/600/S2-91/005)**
- 21055 **Analysis of Factors Affecting Methane Gas Recovery from Six Landfills (EPA/600/S2-91/055)**
- 26041 Gas Characterization, Microbiological Analysis, and Disposal of Refuse in GRI Landfill Simulators (EPA/600/S2-86/041)
- 26091 Incinerator Operating Parameters Which Correlate with Performance (EPA/600/S2-86/091)
- 26103 Pilot Plant Demonstration of the Hyperbaric Oxyozosynthesis Process (EPA/600/S2-86/103)
- 27090 Municipal Landfill Gas Condensate (EPA/600/S2-87/090)
- 36030 Development of Land Disposal Decisions for Metal Using MINTEQ Sensitivity Analysis (EPA/600/S3-86/030)
- 36055 Characterization of Stack Emissions from Municipal Refuse-to-Energy Systems (EPA/600/S3-86/055)
- 71002 Approach for Estimating Global Landfill Methane Emissions (EPA/600/S7-91/002)
- 88085 Guidelines for Stack Testing at Municipal Waste Combustion Facilities (EPA/600/S8-88/085)
- 89057 Municipal Waste Combustion Assessment Combustion at New Facilities (EPA/600/S8-89/057)
- 89058 Municipal Waste Combustion Assessment Combustion Control at Existing Facilities (EPA/600/S8-89/058)

89059	Municipal Waste Combustion Assessment Fossil Fuel Co-Firing (EPA/600/S8-89/059)	21046	<b>Bench-Scale Evaluation of Ammonia Removal from Wastewater by Steam Stripping (EPA/600/S2-91/046)</b>
89060	Municipal Waste Combustion Assessment Waste Co-Firing (EPA/600/S8-89/060)	26027	The Lubbock Land Treatment System Research and Demonstration Project (EPA/600/S2-86/027)
89061	Municipal Waste Combustion Assessment Fluidized Bed Combustion (EPA/600/S8-89/061)	26102	Costs of Air Pollution Abatement Systems for Sewage Sludge Incinerators (EPA/600/S2-86/102)
89062	Municipal Waste Combustion Assessment Medical Waste Combustion Practices at Municipal Waste Combustion Facilities (EPA/600/S8-89/062)	27002	Factors Affecting the Bioavailability of Cadmium (EPA/600/S2-87/002)
89063	Municipal Waste Combustion Assessment Technical Basis for Good Combustion Practice (EPA/600/S8-89/063)	27009	Field Assessment of Aerated Lagoon Emissions and Their Control Using an Inflated Dome (EPA/600/S2-87/009)
89064	Municipal Waste Combustion Multipollutant Study Emission Test Report, Maine Energy Recovery Company, Refuse Derived Fuel Facility, Biddeford, Maine (EPA/600/S8-89/064)	27024	Water Main Evaluation for Rehabilitation/Replacement (EPA/600/S2-87/024)
		27074	Evaluation of the Two-Zone Wastewater Treatment Process at Norristown, Pennsylvania (EPA/600/S2-87/074)

**Municipal Wastewater**

17005	Availability of Cadmium to Rats from Crops Grown on Cadmium Enriched Soil (EPA/600/S1-87/005)	27077	Technical Assessment of Low-Pressure Pipe Wastewater Injection Systems (EPA/600/S2-87/077)
17014	Occurrence of Pathogens in Distribution and Marketing Municipal Sludges (EPA/600/S1-87/014)	27085	Field Evaluation of the Land-O-Matic Dry Pellet Chlorination System (EPA/600/S2-87/085)
18001	Trace Organics and Inorganics in Distribution and Marketing Municipal Sludges (EPA/600/S1-88/001)	27089	Post Construction Performance of Schreiber Counter-Current Aeration Facilities (EPA/600/S2-87/089)
18002	The Stability and Mobility of Mutagenic Activity from Wastewater and Sludge in Agricultural Soils (EPA/600/S1-88/002)	27107	Treatment of Municipal Wastewaters by the Fluidized Bed Bioreactor Process (EPA/600/S2-87/107)
18003	Health Hazard Evaluation of Waste Water Using Bioassays Preliminary Concepts (EPA/600/S1-88/003)	27108	Centralized Management of Small Treatment Plants Using Instruments and Remote Alarms (EPA/600/S2-87/108)
19001	Fractionation of Mutagens from Municipal Sludge and Wastewater (EPA/600/S1-89/001)	28027	Pilot Scale Evaluation of Sludge Landfilling Four Years of Operation (EPA/600/S2-88/027)
20012	Performance of Activated Sludge-Powdered Activated Carbon-Wet Air Regeneration Systems (EPA/600/S2-90/012)	28030	Fate of Water Soluble Azo Dyes in the Activated Sludge Process (EPA/600/S2-88/030)
20013	Treatability of RCRA Compounds in a BOD/Nitrification Wastewater Treatment System with Dual Media Filtration (EPA/600/S2-90/013)	28043	Alternative Energy Sources for Wastewater Treatment Plants (EPA/600/S2-88/043)
20015	Technology Assessment of the Biological Aerated Filter (EPA/600/S2-90/015)	28060	Demonstration and Evaluation of the CAPTOR Process for Sewage Treatment (EPA/600/S2-88/060)
20016	Test and Evaluation of a Polymer Membrane Preconcentrator (EPA/600/S2-90/016)	28065	Oxygen Utilization in Activated Sludge Plants Simulation and Model Calibration (EPA/600/S2-88/065)
20037	Effect of Recycling Thermophilic Sludge on the Activated Sludge Process (EPA/600/S2-90/037)	28072	Reductions of Enteric Microorganisms During Aerobic Sludge Digestion — Comparison of Conventional and Autoheated Digesters (EPA/600/S2-88/072)
20038	Fuel-Efficient Sewage Sludge Incineration (EPA/600/S2-90/038)	29001	Comparative Evaluation of Mesophilic and Thermophilic Anaerobic Digestion (EPA/600/S2-89/001)
21007	Emissions of Metals and Organics from Municipal Wastewater Sludge Incinerators (EPA/600/S2-91/007)	29015	Persistence of Pathogens in Lagoon-Stored Sludge (EPA/600/S2-89-015)
21013	Integrated Model for Predicting the Fate of Organics in Wastewater Treatment Plants (EPA/600/S2-91/013)	29016	Baghouse Efficiency on a Multiple Hearth Incinerator Burning Sewage Sludge (EPA/600/S2-89/016)

29020	Development and Evaluation of a Rubber "Duck Bill" Tide Gate (EPA/600/S2-89/020)	36024	Preliminary Evaluation Studies with the Regional Acid Deposition Model (RADM) (EPA/600/S3-86/024)
29022	Cost and Performance of Membranes for Organic Control in Small Systems Flagler Beach and Punta Gorda, Florida (EPA/600/S2-89/022)	36037	A Dry Deposition Module for Regional Acid Deposition (EPA/600/S3-86/037)
38001	Storm Water Management Model User's Manual, Version 4 (EPA/600/S3-88/001)	36039	A Study of the Formation and Transport of Acidic Species by Non-Precipitating Cumulus Clouds During VENTEX-84 (EPA/600/S3-86/039)
40002	Multispectral Identification and Confirmation of Organic Compounds in Wastewater Extracts (EPA/600/S4-90/002)	36052	Local and Regional Contributions to Urban Particulate Matter (EPA/600/S3-86/052)
41004	Multispectral Identification of Potentially Hazardous Byproducts of Ozonation and Chlorination Part I, Studies of Chromatographic and Spectroscopic Properties of MX (EPA/600/S4-91/004)	36069	Comprehensive Field Study Plan to Relate Pollutant Sources to Acidic Deposition A Preliminary Study of Uncertainties (EPA/600/S3-86/069)
49011	USEPA Method Study 35, SW-846 Method 3010 Acid Digestion of Aqueous Samples and Extracts for Total Metals for Analysis by Flame Atomic Absorption Spectroscopy (EPA/S4-89/011)	36070	Comprehensive Experimental Design Plan to Relate Pollutant Sources to Acidic Deposition (EPA/600/S3-86/070)
49015	USEPA Method Study 35, SW-846 Method 3005 Acid Digestion of Water for Total Recoverable or Dissolved Metals for Analyses by Flame Atomic Absorption(EPA/600/S4-89/015)	37008	International Sulfur Deposition Model Evaluation (EPA/600/S3-87/008)
60001	Development of Risk Assessment Methodology for Surface Disposal of Municipal Sludge (EPA/600/S6-90/001)	37013	Rocky Mountain Acid Deposition Model Assessment Review of Existing Mesoscale Models for Use in Complex Terrain (EPA/600/S3-87/010)
61001	Preliminary Risk Assessment for Parasites in Municipal Sewage Sludge Applied to land (EPA/600/S6-91/001)	37025	The Ohio Stream Regionalization Project A Compendium of Results (EPA/600/S3-87/025)
68006	Development of a Qualitative Pathogen Risk Assessment Methodology for Municipal Sludge Landfilling (EPA/600/S6-88/006)	37027	A Mesoscale Acid Deposition Model Preliminary Applications and a Guide for User Interface (EPA/600/S3-87/027)
68010	Qualitative Pathogen Risk Assessment for Ocean Disposal of Municipal Sludge (EPA/600/S6-88/010)	38008	Rocky Mountain Acid Deposition Model Assessment Evaluation of Mesoscale Acid Deposition Models for Use in Complex Terrain (EPA/600/S3-88/008)
		38042	Rocky Mountain Acid Deposition Model Assessment Acid Rain Mountain Mesoscale Model (ARM3) (EPA/600/S3-88/042)

## Non-Point Source Pollution Control

21057	The Liquid and Gaseous Fuel Distribution System (EPA/600/S2-91/057)	38047	Guideline for Design, Installation, Operation, and Quality Assurance for Dry Deposition Monitoring Networks (EPA/600/S3-88/047)
21060	Review of Energy Efficiency of Refrigerator/Freezer Gaskets (EPA/600/S2-91/060)	39001	Geographic Information System Documentation of Watershed Data for Direct/Delayed Response Project-Northeast Database (EPA/600/S3-89/001)
30018	Second Interim Report Quality Assurance Support for the National Atmospheric Deposition Program and National Trends Network Monitoring Activities 1987-1990 (EPA/600/S3-90/018)	39002	Geographic Information System Documentation of Watershed Data for Direct/Delayed Response Project-Southern Blue Ridge Province Databases (EPA/600/S3-89/002)
30024	Rocky Mountain Acid Deposition Model Assessment ARM3 Model Performance Evaluation (EPA/600/S3-90/024)	39007	The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) Site Visitation Program (October 1986 through September 1987) (EPA/600/S3-89/007)
30028	Analysis of Acid Precipitation Samples Collected by State Agencies 1988 (EPA/600/S3-90/028)	39009	Mountain Cloud Chemistry Project — Wet, Dry and Cloud Deposition (EPA/600/S3-89/009)
30044	Impact of NADP/NTN Sampling Protocols on Winter Storm Estimates of Wet Deposition in Central Pennsylvania (EPA/600/S3-90/044)	39012	Interim Report Quality Assurance Support for the National Atmospheric Deposition Program and National Trends New Monitoring Activities 1987-1990 (EPA/600/S3-89/012)
36014	Local Source Impact on Wet Deposition (EPA/600/S3-86/014)		

- 39018 Analysis of Acid Precipitation Samples Collected by Agencies January 1987-December 1987 (EPA/600/S3-89/018)
- 40001 Direct/Delayed Response Project Quality Assurance Report for Physical and Chemical Analyses of Soils from the Mid-Appalachian Region of the United States (EPA/600/S4-90/001)
- 40023 **Handbook of Methods for Acid Deposition Studies, Laboratory Analyses for Soil Chemistry (EPA/600/S4-90/023)**
- 41027 **Watershed Characterization Using LANDSAT Thematic Mapper (TM) Satellite Imagery, Blackfoot River, Montana (EPA/600/S4-91/027)**
- 71005 **Field Performance of Woodburning and Coalburning Appliances in Crested Butte During the 1989-1990 Heating Season (EPA/600/S7-91/005)**
- 47036 Summary Report for the National Atmospheric Deposition Program/National Trends Network (NADP/NTN) Site Program — December, 1984 through September, 1986 (EPA/600/S4-87/036)
- 48009 Wet Deposition and Snowpack Monitoring-Final Project Report (EPA/600/S4-88/009)
- 49026 Re-examination of Interim Estimates of Annual Sulfur Dry Deposition Across the Eastern United States (EPA/600/S4-89/026)
- 92001 **Documentation of AIRS AMS National Methodologies (EPA/600/SR-92/001)**

## Pesticides

- 20023 Pesticide Spray Penetration and Thermal Comfort of Protective Apparel for Pesticide Applicators (EPA/600/S2-90/023)
- 26079 Destruction of Chlorinated Hydrocarbons by Catalytic Oxidation (EPA/600/S2-86/079)
- 26113 Catalytic Dehydrohalogenation: A Chemical Destruction Method for Halogenated Organics (EPA/600/S2-86/113)
- 27003 Use of Lined Pits for Disposal of Dilute Pesticide (EPA/600/S2-87/003)
- 28033 Pesticide Exposure to Florida Greenhouse Applicators (EPA/600/S2-88/033)
- 29002 Test Report for the Trial Burn of Dinoseb in a Pilot-Scale Incinerator (EPA/600/S2-89/002)
- 30003 Nonoccupational Pesticide Exposure Study (NOPES) (EPA/600/S3-90/003)
- 30030 Field Evaluation of a High Volume Surface Sampler for Pesticides in Floor Dust (EPA/600/S3-90/030)
- 48036 Development of a High Volume Surface Sampler for Pesticides in Floor Dust (EPA/600/S4-88/036)
- 49027 An Enclosed Aquatic Multispecies Test System for Testing Microbial Pest Control Agents with Non-Target Species (EPA/600/S4-89/027)

- 67004 Carcinogenicity Assessment of Chlordane and Heptachlor/Heptachlor Epoxide (EPA/600/S6-87/004)
- 67006 Carcinogenicity Assessment of Aldrin and Dieldrin (EPA/600/S6-87/006)

## Pollution Prevention

- 20008 Users Guide for the Conversion of Navy Paint Spray Booth Particulate Emission Control Systems from Wet to Dry Operations (EPA/600/S2-90/008)
- 20021 Preliminary Assessment of Life-Cycle Costs of Protective Clothing (EPA/600/S2-90/021)
- 20031 Waste Minimization Opportunity Assessment Fort Riley, Kansas (EPA/S2-90/031)
- 20046 Waste Minimization Opportunity Assessment Philadelphia Naval Shipyard (EPA/600/S2-90/046)
- 20048 Background Document on Clean Products Research and Implementation (EPA/600/S2-90/048)
- 20051 **VOC Emission Reduction Study at the Hill Air Force Base Building 515 Painting Facility (EPA/600/S2-90/051)**
- 20052 **Degreaser System Pollution Prevention Evaluation (EPA/600/S2-90/052)**
- 20062 Waste Minimization Opportunity U.S. Coast Guard Support Center - Governors Island, New York (EPA/600/S2-90/062)
- 21015 Approximate Multiphase Flow Modeling by Characteristic Methods (EPA/600/S2-91/015)
- 21024 Hospital Pollution Prevention Case Study (EPA/600/S2-91/024)
- 21025 Landfill Leachate Clogging of Geotextile (and Soil) Filters (EPA/600/S2-91/025)
- 21027 Microbial Degradation of Alkylbenzenes under Sulfate-Reducing and Methanogenic Conditions (EPA/600/S2-91/027)
- 21028 AHERA Clearance at Twenty Abatement Sites (EPA/600/S2-91/028)
- 21031 Waste Minimization Opportunity Assessment Optical Fabrication Laboratory, Fitzsimmons Army Medical Center, Denver, Colorado (EPA/600/S2-91/031)
- 21038 **Waste Minimization Opportunity Assessment: A Class 8 Truck Assembly Plant (EPA/600/S2-91/038)**
- 21039 **Waste Minimization Opportunity Assessment: A Photofinishing Facility (EPA/600/S2-91/039)**
- 21054 **Waste Minimization Opportunity Assessment: Scott AFB (EPA/600/S2-91/054)**
- 21066 **Automotive and Heavy-Duty Engine Coolant Recycling by Filtration (EPA/600/S2-91/066)**
- 27055 Waste Minimization Audits at Generators of Corrosive and Heavy Metal Wastes (EPA/600/S2-87/055)

- 27057 Waste Minimization Audit Report Case Studies of Minimization of Solvent Waste from Parts Cleaning and from Electronic Capacitor Manufacturing Operations (EPA/600/S2-87/057)
- 27060 Novel Vapor-Deposited Lubricants for Metal-Forming Processes (EPA/600/S2-87/060)
- 28008 Waste Minimization in the Printed Circuit Board Industry Case Studies (EPA/600/S2-88/008)
- 28010 Waste Minimization Audit Report Case Studies of Minimization of Solvent Wastes and Electroplating Wastes at a DOD Installation (EPA/600/S2-88/010)
- 28011 Waste Minimization Audit Report Case Studies of Minimization of Mercury-Bearing Wastes at a Mercury Cell Chloralkali Plant (EPA/600/S2-88/011)
- 28019 Metal Value Recovery from Metal Hydroxide Sludges Removal of Iron and Recovery of Chromium (EPA/600/S2-88/019)
- 28038 d-SSYS, A Computer Model for the Evaluation of Competing Alternatives (EPA/600/S2-88/038)
- 28041 The Survey of Industrial Hazard Anticipation Technology (EPA/600/S2-88/041)
- 28071 Volatile Organic Compound and Particulate Emission Studies at AF Paint Booth Facilities Phase I (EPA/600/S2-88/071)
- 29007 Novel and Simple Solar Approach to Elimination of Dilute Toxic Wastes Based on Photoelectrochemical Systems (EPA/600/S2-89/007)
- 29009 Evaluation of Refrigerant from Mobile Air Conditioners (EPA/600/S2-89/009)
- 29043 Source Characterization and Control Technology Assessment of Methylene Chloride Emissions from Eastman Kodak Company, Rochester, NY (EPA/600/S2-89/043)
- 31045 FATE, The Environmental Fate Constants Information System Database (EPA/600/S3-91/045)
- 31052 Laboratory and Field Evaluations of a Methodology for Determining Hexavalent Chromium Emissions from Stationary Sources (EPA/600/S3-91/052)**
- 36003 Impact of Primary Sulfate and Nitrate Emissions from Selected Major Sources Phase II Sulfuric Acid Plant and Pulp and Paper Mill (EPA/600/S3-86/003)
- 36063 Ambient Air/Source Transport and Transformation Relationships for Selected Hazardous Air Pollutants (EPA/600/S3-86/063)
- 80069 User's Guide for Executing OZIPR (EPA/600/S8-90/069)
- 81052 Industrial Pollution Prevention for the 1990s (EPA/600/S8-91/052)**
- 87028 Prevention Reference Manual User's Guide, Overview for Controlling Accidental Releases of Air Toxics (EPA/600/S8-87/028)
- 87034a Prevention Reference Manual Chemical Specific, Volume 1. Control of Accidental Releases of Hydrogen Fluoride (SCAQMD) (EPA/600/S8-87/034a)
- 87034b Prevention Reference Manual Chemical Specific, Volume 2. Control of Accidental Releases of Chlorine (SCAQMD) (EPA/600/S8-87/034b)
- 87034c Prevention Reference Manual Chemical Specific, Volume 3. Control of Accidental Releases of Hydrogen Cyanide (SCAQMD) (EPA/600/S8-87/034c)
- 87034d Prevention Reference Manual Chemical Specific, Volume 4. Control of Accidental Releases of Ammonia (SCAQMD) (EPA/600/S8-87/034d)
- 87034f Prevention Reference Manual Chemical Specific, Volume 6. Control of Accidental Releases of Carbon Tetrachloride (SCAQMD) (EPA/600/S8-87/034f)
- 87034g Prevention Reference Manual Chemical Specific, Volume 7. Control of Accidental Releases of Chloropicrin (SCAQMD) (EPA/600/S8-87/034g)
- 87034h Prevention Reference Manual Chemical Specific, Volume 8. Control of Accidental Releases of Hydrogen Fluoride (EPA/600/S8-87/034h)
- 87034i Prevention Reference Manual Chemical Specific, Volume 9. Control of Accidental Releases of Chlorine (EPA/600/S8-87/034i)
- 87034j Prevention Reference Manual Chemical Specific, Volume 10. Control of Accidental Releases of Hydrogen Cyanide (EPA/600/S8-87/034j)
- 87034k Prevention Reference Manual Chemical Specific, Volume 11. Control of Accidental Releases of Ammonia (EPA/600/S8-87/034k)
- 87034l Prevention Reference Manual Chemical Specific, Volume 12. Control of Accidental Releases of Sulfur Dioxide (EPA/600/S8-87/034l)
- 87034m Prevention Reference Manual Chemical Specific, Volume 13. Control of Accidental Releases of Methyl Isocyanate (EPA/600/S8-87/034m)
- 87034n Prevention Reference Manual Chemical Specific, Volume 14. Control of Accidental Releases of Phosgene (EPA/600/S8-87/034n)
- 87034o Prevention Reference Manual Chemical Specific, Volume 15. Control of Accidental Releases of Sulfur Trioxide (EPA/600/S8-87/034o)
- 87039a Prevention Reference Manual Control Technologies, Volume 1. Prevention and Protection Technologies for Controlling Accidental Releases of Air Toxics (EPA/600/S8-87/039a)
- 87039b Prevention Reference Manual Control Technologies, Volume 2. Post-Release Mitigation Measures for Controlling Accidental Releases of Air Toxics (EPA/600/S8-87/039b)
- 88074 Prevention Reference Manual Overviews on Preventing and Controlling Accidental Releases of Selected Toxic Chemicals (EPA/600/S8-88/074)

89070	Guidance Document for the WRITE Pilot Program with State and Local Governments (EPA/600/S8-89/070)	26066	Reclamation and Redevelopment of Contaminated Land Volume 1 U S Case Studies (EPA/600/S2-86/066)
91023	Control Technology Center, 1990, A Year of Expanding Service (EPA/600/S9-91/023)	26074	Testing and Evaluation of Permeable Materials for Removing Pollutants from Leachates at Remedial Action Sites (EPA/600/S2-86/074)
91047	<b>Proceedings of the International Workshop on Research in Pesticide Treatment/Disposal/Waste Minimization (EPA/600/S9-91/047)</b>	26112	PCB Sediment Decontamination - Technical/Economic Assessment of Selected Alternative Treatments (EPA/600/S2-86/112)
92014	<b>Limited-Use Chemical Protective Clothing for EPA Superfund Activities (EPA/600/SR-92/014)</b>	27023	The Block Displacement Method Field Demonstration and Specifications (EPA/600/S2-87/023)

**Radiation**

17003	Specific Absorption Rate Distributions in a Heterogeneous Model of the Human Body at Radio Frequencies (EPA/600/S1-87/003)	27033	Destruction of Dioxin-Contaminated Solids and Liquids by Mobile Incineration (EPA/600/S2-87/033)
17012	Behavior, Physiology, and Energy Deposition in Rats Chronically Exposed to 2450 MHz Radiation (EPA/600/S1-87/012)	27047	A Guidance Manual for Selection and Use of Sorbents for Liquid Hazardous Substance Releases (EPA/600/S2-87/047)
18004	Cerebellar Histogenesis in Rats Exposed to 2450 MHz Microwave Radiation (EPA/600/S1-88/004)	27063	Investigation of Slurry Cutoff Wall Design and Construction Methods for Containing Hazardous Wastes (EPA/600/S2-87/063)
18005	Behavioral Effects of Microwaves Relationship of Total Dose and Dose Rate (EPA/600/S1-88/005)	27066	A Method for Estimating Fugitive Particulate Emissions from Hazardous Waste Sites (EPA/600/S2-87/066)
21021	Rate of Flow of Leachate Through Clay Soil Liners (EPA/600/S2-91/021)	27078	Nondestructive Testing (NDT) Techniques to Detect Contained Subsurface Hazardous Waste (EPA/600/S2-87/078)
21022	State-of-the-Art Field Hydraulic Conductivity Testing of Compacted Soils (EPA/600/S2-91/022)	27079	Analysis of Modified Wet-Air Oxidation for Soil Detoxification (EPA/600/S2-87/079)
21023	Evaluation of Soil Washing Technology Results of Bench-Scale Experiments on Petroleum-Fuels Contaminated Soils (EPA/600/S2-91/023)	27087	Compendium of Costs of Remedial Technologies at Hazardous Waste Sites (EPA/600/S2-87/087)
21035	Radiation-Curable Coatings (EPA/600/S2-91/035)	27093	Report of Decontamination of PCB-Bearing Sediments (EPA/600/S2-87/093)
78005	Clinton, New Jersey, Radon Mitigation Follow-Up and Long-Term Monitoring (EPA/600/S7-88/005)	27096	A Field Evaluation of In-Situ Biodegradation for Aquifer Restoration (EPA/600/S2-87/096)
88084	Preliminary Diagnostic Procedures for Radon Control (EPA/600/S8-88/084)	27104	Development and Assessment of Methods for Estimating Protective Clothing Performance (EPA/600/S2-87/104)
91019	Analysis of Historical Radiatively Important Trace Gases (RITG) Emissions Development of a Trace Gas Accounting System (T-GAS) for 14 Countries (EPA/600/S9-91/019)	28012	U S Production of Manufactured Gases Assessment of Past Disposal Practices (EPA/600/S2-88/012)
		28051	Evaluation of the B E S T <sup>TM</sup> Solvent Extraction Sludge Treatment Technology Twenty-Four Hour Test (EPA/600/S2-88/051)

**Site Remediation/Land Reclamation**

20054	Workshop on Innovative Technologies for Treatment of Contaminated Sediments, June 13-14, 1990, Summary Report (EPA/600/S2-90/054)	28055	Characterization and Laboratory Soil Treatability Studies for Creosote and Pentachlorophenol Sludges and Contaminated Soil (EPA/600/S2-88/055)
26013	Drum Handling Practices at Hazardous Waste Sites (EPA/600/S2-86/013)	28058	Granular Activated Carbon Adsorption with On-Site Infrared Furnace Reactivation (EPA/600/S2-88/060)
26037	Costs of Remedial Actions at Uncontrolled Hazardous Waste Sites Worker Health and Safety Considerations (EPA/600/S2-86/037)	29011	Treatability Potential for EPA Listed Hazardous Wastes in Soil (EPA/600/S2-89/011)
26055	Predicting the Effectiveness of Chemical-Protective Clothing Model and Test Method Development (EPA/600/S2-86/055)	29014	Evaluation of a New In-Facepiece Sampling Procedures for Full and Half Facepieces (EPA/600/S2-89/014)

- 29017 Assessment of International Technologies for Superfund Applications—Technology Identification and Selection (EPA/600/S2-89/017)
- 29026 Removal and Fate of RCRA and CERCLA Toxic Organic Pollutants in Wastewater Treatment (EPA/600/S2-89/026)
- 29033 In-Situ Aquifer Restoration of Chlorinated Aliphatics by Methanotrophic Bacteria (EPA/600/S2-89/033)
- 29049 The Selection and Measurement of Physical Properties for Characterization of Chemical Protective Clothing Materials (EPA/600/S2-89/049)
- 29066 Technologies of Delivery or Recovery for the Remediation of Hazardous Waste Sites (EPA/600/S2-89/066)
- 46018 Ambient Monitoring for PCB after Remedial Cleanup of Two Landfills in the Bloomington, Indiana Area (EPA/600/S4-86/018)
- 58502 Technology Evaluation Report SITE Program Demonstration Test, Shirco Infrared Incineration System, Peak Oil, Brandon, Florida (EPA/540/S5-88/002)
- 59503 Technology Evaluation Report SITE Program Demonstration Test, Terra Vac In Situ Vacuum Extraction Systems, Groveland, Massachusetts (EPA/540/S5-89/003)
- 59504 Technology Evaluation Report SITE Program Demonstration Test, International Waste Technologies In Situ Stabilization/Solidification, Hialeah, Florida (EPA/540/S5-89/004)
- 59505 Technology Evaluation Report SITE Program Demonstration Test, Solidtech, Inc Morganville, New Jersey (EPA/540/S5-89/005)
- 59512 SITE Program Demonstration of the Ultrox International Ultraviolet Radiation/Oxidation Technology (EPA/540/S5-89/012)
- 66002 Development of Advisory Levels for Polychlorinated Biphenyls (PCBs) Cleanup (EPA/600/S6-86/002)
- 87049 Remedial Action Costing Procedures Manual (EPA/600/S8-87/049)
- 89069 Bench Scale Fixation of Soils from the Tacoma Tar Pits Superfund Site (EPA/600/S8-89/069)

## Special Publications

- 90054 Evaluation and Effective Risk Communication Workshop Proceedings (EPA/600/S9-90/054)
- 91025 FY 1992 EPA Research Program Guide (EPA/600/9-91/025)

## Spills

- 27019 Evaluation of Thirteen Spill Response Technologies (EPA/600/S2-87/019)
- 27041 Calibration and Evaluation of a Dispersant Application System (EPA/600/S2-87/041)

- 27068 Manual for Preventing Spills of Hazardous Substances at Fixed Facilities (EPA/600/S2-87/068)
- 27069 Reference Manual of Countermeasures for Hazardous Substance Releases (EPA/600/S2-87/069)
- 27070 Evaluation of Oil Spill Dispersant Testing Requirements (EPA/600/S2-87/070)
- 27072 A Field Dispersant Effectiveness Test (EPA/600/S2-87/072)
- 27073 Sampling Oil-Water Mixtures at OHMSETT (EPA/600/S2-87/073)
- 29042 In Situ Bioremediation of Spills from Underground Storage Tanks New Approaches for Site Characterization Project Design, and Evaluation of Performance (EPA/600/S2-89/042)

## Test Methods Quality Assurance/Quality Control

- 20020 Transport of Macromolecules and Humate Colloids Through a Sand and a Clay Amended Sand Laboratory Column (EPA/600/S2-90/020)
- 20050 Standard Test Procedures for Evaluating Leak Detection Methods Pipeline Leak Detection Systems (EPA/600/S2-90/050)
- 26092 Supercritical Fluid Chromatography for High Molecular Weight Organic Analysis (EPA/600/S2-86/092)
- 26097 Precision and Reliability of Laboratory Permeability Measurements (EPA/600/S2-86/097)
- 28023 An Improved Laboratory Dispersant Effectiveness Test (EPA/600/S2-88/023)
- 30001 Evaluation of the RADMGas-Phase Chemical Mechanism (EPA/600/S3-90/001)
- 30038 Freshwater Assay Using Soil Eluates as Sample Material (Single Laboratory Evaluation) (EPA/600/S3-90/038)
- 30047 Validation of Emission Sampling and Analysis Test Method for PCDDs and PCDFs II (EPA/600/S3-90/047)
- 30048 Development of a Sampling Procedure for Large Nitrogen- and Sulfur-Bearing Aerosols (EPA/600/S3-90/048)
- 30049 Measurements of Exhaled Breath Using a New Portable Sampling Method (EPA/600/S3-90/049)
- 30055 Evaluation of an Anion Exchange Resin for Sampling Ambient Level Phenolic Compounds (EPA/600/S3-90/055)
- 30064 Comparison of Precipitation Measurements by Nipher-Shielded and Standard Belfort Recording Rain Gages at NADP/NTN Sites (EPA/600/S3-90/064)
- 30088 Development of Real-Time Monitors for Gaseous Formaldehyde (EPA/600/S3-90/088)



30091	Evaluation of Particle Beam Liquid Chromatography/Mass Spectrometry for the Analysis of Polar Semivolatile Organic Compounds in Air Samples (EPA/600/S3-90/091)	40011	User's Guide--Micronucleus Assay Data Management and Analysis System (EPA/600/S4-90/011)
30093	Development of Sampling Methodology for Dilution Air Sampling of Condensable Emissions from Stationary Sources (EPA/600/S3-90/093)	40015	Analysis of Solid Waste--Performance Data for SW-846 Methods 8270, 8081, and 8141 (EPA/600/S4-90/015)
30097	Gas Chromatography/Matrix Isolation-Infrared Spectrometry for Air Sample Analysis (EPA/600/S3-90/097)	40021	Application of Open-Tubular Columns to SW-846 GC Methods (EPA/600/S4-90/021)
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31005	Snow/Rain Collector Sampler (EPA/600/S3-91/005)	40024	Modification of Methods 9030 and 9031 for the Analysis of Sulfide by Specific Ion Electrode (EPA/600/S4-90/024)
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39049	Quality Assurance Procedures Method 28 Certification and Auditing of Wood Heaters (EPA/600/S3-89/049)	46024	Development of Standard Methods for the Collection and Analysis of Precipitation (EPA/600/S4-86/024)
39050	Quality Assurance Procedures Method 5G, Determination of Particulate Emissions from Wood Heaters from a Dilution Tunnel Sampling Location (EPA/600/S3-89/050)	46034	Comparison of Polyurethane Foam and XAD-2 Resin as Collection Media for Polynuclear Aromatic Hydrocarbons in Air (EPA/600/S4-86/034)
39063	Hydrolysis Rate Constants for Enhancing Property-Reactivity Relationships (EPA/600/S3-89/063)	46038	Standardization of EPA Model 8610, Part 2 (EPA/600/S4-86/038)
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39070	Analysis of Ambient Polar Volatile Organic Compounds Using Chemical Ionization-Ion Trap Detector (EPA/600/S3-89/070)	47003	Precision and Accuracy Assessments for State and Local Air Monitoring Networks 1985 (EPA/600/S4-87/003)
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47007	Stability of Parts-Per-Billion Hazardous Organic Cylinder Gases and Performance Audit Results of Source Test and Ambient Air Measurement Systems Status Report #3 (EPA/600/S4-87/007)	48002	Stability of Parts-Per-Million Organic Cylinder Gases and Results of Source Test Analysis Audits—Status Report #9 (EPA/600/S4-88/002)
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## Wetlands Protection

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18004	20055	21056	26113	27074	28023	29018	30028	31074	37049	39024	41014	47041	49033	70004	77007
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20012	21012	26020	27015	27093	28042	29033	30051	36043	38026	39050	46025	48014	49049	70018	77021
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78014	79006b	80049	80076	81042	86011	87026	87036	88008	88088	89058	90054	96007	98009
78015	79007	80050	80079	81045	86016	87028	87037	88009	88090	89059	91001	96008	98011
78016	79008	80052	80081	81046	86025	87034a	87038	88064	88091	89060	91007	96010	98022
78017	79009	80053	80083	81050	86029	87034b	87039a	88065	88092	89061	91015	96017	98023
78018	79010	80056	80085	81051	86037	87034c	87039b	88067	88093	89062	91019	96018	98026
78019	79010a	80060	80086	81052	86038	87034d	87040	88069	88095	89063	91023	96020	99006
78020	79010b/c	80061	80087	81200	86039	87034f	87042	88071	88097	89064	91024	96021	99026
78021	79010d/e	80062	81002	81206	87002	87034g	87047	88072	88098	89068	91025	96026	99036
78022	79011	80063	81007	81208	87008	87034h	87049	88074	88101	89069	91026	96029	99046
78023	79012	80065	81009	81210	87009	87034i	87056	88075	88102	89070	91037	96031	99047
78024	79013	80069	81010	81211	87010	87034j	87057	88077	88104	89071	91044	97004	99057
79001	79014	80070	81013	81212	87012	87034k	87058	88078	88106	89074	91047	97005	99062
79002	79015	80071	81014	84001F	87018	87034l	87059	88079	89001	89080	92001	97006	99089
79003		80072	81032	84003F	87019	87034m	88001	88082	89042	89083	92006	97011	
79004	80004	80073	81036	84015F	87020	87034n	88003	88084	89043	89102	92007	97013	
79005	80005	80074	81039	86004	97021	87034o	88004	88085	89046		92014	97014	

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