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May - August 1984

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The Administrator of EPA has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Agency. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 1, 1987.

Announcement for Publication Material

Project Summaries

Environmental Health Effects Research

- 12006 Chronic Toxicity of Lead and Cadmium III. Effects of Chronic Intoxication on the Reproductive Function of the F₁ Generation and on the Central Nervous System of the F₂ Generation of Rats (EPA-600/S1-82-006)
- 12001 Toxicology of Pesticides (EPA-600/S1-82-001)
- 12004 Short-Term Screening Test for Quick Responses to Pollutants Where Health Effects Data are Lacking (EPA-600/S1-82-004)
- 12009 Effects of Selected Organic Drinking Water Contaminants on Male Reproduction (EPA-600/S1-82-009)
- 12012 Pulmonary Function and Bronchial Reactivity in Human Subjects with Exposure to Ozone and Respirable Sulfuric Acid Aerosol: An Environmental Chamber Study (EPA-600/S1-82-012)
- 12008 Effects of Heavy Metals on the Differentiation of Metabolic Pathways in the CNS (EPA-600/S1-82-008)
- 12010 Speciation of Arsenic Compounds in Water Supplies (EPA-600/S1-82-010)
- 12013 Cross Transmission of Giardia (EPA-600/S1-82-013)
- 12014 Effects of 200, 591 and 2450 MHz Microwaves on Cerebral Energy Metabolism (EPA-600/S1-82-014)
- 12015 Human Epithelial Cell Activation Systems (EPA-600/S1-82-015)
- 12016 Giardiasis in Washington State (EPA-600/S1-82-016)
- 12017 Potential Human Study Populations for Non-lonizing (Radio Frequency) Radiation Health Effects (EPA-600/S1-82-017)
- 13001 An Evaluation of the Adsorption Properties of Silicalite for Potential Application to Isolating Low-Molecular-Weight Organics from Drinking Water (EPA-600/S1-83-001)
- 13002 Development of a Model of Toluene Blood Level Following Subcutaneous Injection of Toluene in the Rat (EPA-600/S1-83-002)
- 13003 Chlorinated Hydrocarbons: Insecticide Versus Carcinogenic Action (EPA-600/S1-83-003)
- 13004 Determination of Minimal Infectious Dose of an Enterovirus in Drinking Water (EPA-600/S1-83-004)
- 13011 Studies of Waterborne Agents of Viral Gastroenteritis (EPA-600/S1-83-011)
- 12011 Chemistry and Mode of Action of Insecticides: Phase II (EPA-600/S1-82-011)
- 13005 Detection of Carcinogenicity Based on Mutagenicity in Arabidopsis (EPA-600/S1-83-005)

- 13006 The Detection of Mutagenic Properties of Pesticides Used in Commercial Corn Production (EPA-600/S1-83-006)
- 13007 Fetotoxic Effects of Nickel in Drinking Water in Mice (EPA-600/S1-83-007)
- 13008 Microwaves, Hyperthermia, and Human Leukocyte Function (EPA-600/S1-83-008)
- 13012 Enteric Virus Removal in Wastewater Treatment Lagoon Systems (EPA-600/S1-83-012)
- 13013 Study of Microbial Aerosols Emitted from a Water Reclamation Plant (EPA-600/S1-83-013)
- 13014 Determination of the Use of Solid Particle Samplers for *Giardia*Cysts in Natural Waters (EPA-600/S1-83-014)
- 13009 Immunological and Hematological Effects of Microwave Power Transmission from a Satellite Power System (EPA-600/S1-83-009)
- 13016 The Evaluation of the Mutagenicity of Municipal Sewage Sludge (EPA-600/S1-83-016)
- 13017 Inhalation Teratology Studies of Captan and Folpet in Mice (EPA-600/S1-83-017)
- 13018 Viruses in Water and Reclaimed Wastewater (EPA-600/S1-81 . 018)
- 14002 Interaction of Complex Pollutant Mixtures and Particulates in Causation of Pulmonary Disease (EPA-600/S1-84-002)
- 14003 In Vitro and In Vivo Mutagenicity Studies of Environmental Chemicals (EPA-600/S1-84-003)
- 14005 Validation of Chemical and Biological Techniques for Evaluation of Vapors in Ambient Air/Mutagenicity Testing of Twelve (12) Vapor-Phase Compounds (EPA-600/S1-84-005)
- 14006 Retrospective Epidemiological Study of Disease Associated with Wastewater Utilization (EPA-600/S1-84-006)
- 14007 The Effects of Cadmium on Renal Aging: A Chronic Cadmium Feeding Study in Rats (EPA-600/S1-84-007)
- 14008 Epidemiological Study of the Incidence of Cancer as Related to Industrial Emissions in Contra Costa County, California (EPA-600/S1-84-008)

Environmental Protection Technology

- 22015 Model Protocol for the Comprehensive Evaluation of Publicly Owned Treatment Works Performance and Operation (EPA-600/ S2-82-015)
- 22021 Sodium Fluxing and *In-Situ* Glassification for Hazardous Materials Disposal (EPA-600/S2-82-021)
- 22016 Evaluation and Control of Sidestreams Generated in Publicly Owned Treatment Works (EPA-600/S2-82-016)
- 22019 Spreading Lagooned Sewage Sludge on Farmland: A Case History (EPA-600/S2-82-019)

22025	Increasing ARCAT® Test Sensitivity for Examination of Potable Waters (EPA-600/S2-82-025)	22046	Pilot Scale Evaluation of Biological Activated Carbon for the Removal of THM Precursors (EPA-600/S2-82-046)
22020	Biological Processes in the Treatment of Municipal Water Supplies (EPA-600/S2-82-020)	22047	Co-gasification of Densified Sludge and Solid Waste in a Downdraft Gasifier (EPA-600/S2-82-047)
22023	Autoheated, Aerobic Thermophilic Digestion with Air Aeration (EPA-600/S2-82-023)	22048	Stormwater Management to Improve Lake Water Quality (EPA-600/S2-82-048)
22014	Engineering Assessment of Hot-Acid Treatment of Municipal Sludge for Heavy Metals Removal (EPA-600/S2-82-014)	22053	An Innovative Coprecipitation Technique for Removing Heavy Metals from Wastewater (EPA-600/S2-82-053)
22029	Evaluation of Foams for Mitigating Air Pollution from Hazardous Spills (EPA-600/S2-82-029)	22056	Volatile Organics in Aeration Gases at Municipal Treatment Plants (EPA-600/S2-82-056)
22030	Sorbent Materials for Cleanup of Hazardous Spills (EPA-600/S2-82-030)	22057	Full-Scale Evaluation of Activated Bio-Filter Wastewater Treatment Process (EPA-600/S2-82-057)
22049	Toxicity of Leachates: Comparison of Extraction Procedure Extracts and Landfill Leachates (EPA-600/S2-82-049)	22038	Carbon Fiber Data Base: Review and Assessment of Carbon Fiber Release into the Environment (EPA-600/S2-82-038)
22022	Virion Aggregation and Disinfection of Water by Chlorine and Bromine (EPA-600/S2-82-022)	22058	Environmental Considerations for Emerging Copper-Winning Processes (EPA-600/S2-82-058)
22024	Removal of Virus from Public Water Supplies (EPA-600/S2-82-024)	22066	Development and Demonstration of Concepts for Improving Coke-Oven Door Seals: Final Report (EPA-600/S2-82-066)
22026	Seattle Distribution System Corrosion Control Study, Volume 1. Cedar River Water Pilot Plant Study (EPA-600/S2-82-026)	22067	Supercritical Fluid Regeneration of Activated Carbon Used for Volatile-Organic-Compound Vapor Adsorption (EPA-600/S2-82-067)
22031	Top-Feed Vacuum Filtration of Waste-Activated Sludge (EPA-600/S2-82-031)	22069	
22033	Determinants and Options for Water Distribution System Management: A Cost Evaluation (EPA-600/S2-82-033)	22061	
22043	Water Reclamation and Automated Water Quality Monitoring (EPA-600/S2-82-043)	22062	Emissions and Residue Values from Waste Disposal During Wood Preserving (EPA-600/S2-82-062)
⊉2050	Evaluation and Documentation of the Effects of Operation and Maintenance Practices on the Performance of Selected Biological Treatment Plants (EPA-600/S2-82-050)	22081	
22051	Chlorine Dioxide Disinfection and Granular Activated Carbon Adsorption (EPA-600/S2-82-051)	22017	Nonvolatile Organics in Disinfected Wastewater Effluents: Chemical Characterization and Mutagenicity (EPA-600/S2-82-017)
22054	Persistence and Detection of Coliforms in Turbid Finished Drinking Water (EPA-600/S2-82-054)	22027	
22010	Comparison of Ames Salmonella typhimurium Plate Incorporation Test Protocols (EPA-600/S2-82-010)	22028	Collection and Treatment of Wastewater Generated by Pesticide Applicators (EPA-600/S2-82-028)
22065	Powdered Activated Carbon Adsorption Isotherms for Selected Tannery Effluents (EPA-600/S2-82-065)	22059	Tomato Cleaning and Water Recycle (EPA-600/S2-82-059)
22018	Seattle Distribution System Corrosion Control Study: Volume III. Potential for Drinking Water Contamination from Tin/ Antimony	22071	Demonstration of Irrigation Return Flow Water Quality in the Mesilla Valley, New Mexico (EPA-600/S2-82-071)
22032	Solder (EPA-600/S2-82-018) Apparatus and Procedure for Determining Oil Droplet Size	22074	A Case Study of the Muncie, Indiana, Water Quality Control Program (EPA-600/S2-82-074)
	Distribution (EPA-600/S2-82-032)	22076	Powdered Carbon-Activated Sludge—Filtration Processes for
22034	Chemical Composition of Produced Water at Some Offshore Oil Platforms (EPA-600/S2-82-034)		Petroleum Refinery Wastewate: (EPA-600/S2-82-076) Nitrates in Groundwater Resulting from Manure Applications to
22036	Oil Spill Response Scenario for Remote Arctic Environments (EPA-600/S2-82-036)		¹ Irrigated Cropland (EPA-600/S2-82-079)
22037	Alternative Water Disinfection Schemes for Reduced Trihalo-	22080	Rapid-Infiltration System for Wastewater Renovation and Beneficial Reuse (EPA-600/S2-82-080)
	methane Formation: Volume 1. Prototype Studies (EPA-600/ S2-82-037)	22011	Emerging Technologies for the Control of Hazardous Wastes (EPA-600/S2-82-011)
22044	Evaluation and Documentation of Mechanical Reliability of Conventional Wastewater Treatment Plant Components (EPA-600/S2-82-044)	22013	Assessment of Waste Fuel Use in Cement Kilns (EPA-600/S2-82-013)

22060 Evaluation of Waste Citrus Activated Sludge in Poultry Feeds (EPA-600/S2-82-060)

600/\$2-82-044)

Evaluation of Secondary Environmental Impacts of Urban Runoff

Pollution Control (EPA-600/S2-82-045)

22078	Evaluating Furrow Irrigation Systems for Regional Water Quality Planning (EPA-600/S2-82-078)	22097	Liner Materials Exposed to Municipal Solid Waste Leachate (EPA-600/S2-82-097)
22073	Minimizing Salt in Return Flow Through Irrigation Management (EPA-600/S2-82-073)	22102	Determination of Explosion Venting Requirements for Municipal Solid Waste Shredders (EPA-600/S2-82-102)
22012	Water Reuse and Alum Control on First Pass Retention (EPA-600/S2-82-012)	23003	Trihalomethane Removal by Coagulation Techniques in a Softening Process (EPA-600/S2-83-003)
22063	Chemical Stabilizers for the Control of Fugitive Asbestos Emissions from Open Sources (EPA-600/S2-82-063)	23007	Advanced Biological Treatment of Municipal Wastewater Through Aquaculture (EPA-600/S2-83-007)
22070c	: Acid Rain Mitigation Study: Volume III. Industrial Boilers and Processes (EPA-600/S2-82-070c)	23004	Swine Lagoon Effluent Applied to Coastal Bermudagrass (EPA 600/S2-83-004)
22075	Treatment Compatibility of Municipal Waste and Biologically Hazardous Industrial Compounds (EPA-600/S2-82-075)	23005	Multiple Water Reuse in Poultry Processing: Case Study in Egypt (EPA-600/S2-83-005)
22082	Considerations in Selecting Conveyors for Solid Waste Applications (EPA-600/S2-82-082/083)	23009	Considerations in Granular Activated Carbon Treatment of Combined Industrial Wastewaters (EPA-600/S2-83-009)
22086	The Use of Wetlands for Water Pollution Control (EPA-600/S2-82-086)	23010	Environmental Assessment Data Base for Petroleum Refining Wastewaters and Residuals (EPA-600/S2-83-010)
22087	Feasibility Study of Granular Activated Carbon Adsorption and On-Site Regeneration (EPA-600/S2-82-087)	23011	Effects of Livestock Pasturing on Nonpoint Runoff Surface (EPA 600/S2-83-011)
22088	Testing Truck-Mounted Vacuum and Air Conveyor Systems for Oil Spill Recovery (EPA-600/S2-82-088)	23012	Effects on Cattle from Exposure to Sewage Sludge (EPA-600/S2-83-012)
22089	Type A Viral Hepatitis: Effects of Chlorine on Infectivity (EPA-600/S2-82-089)	23008	Economic Benefits of Controlling Water Pollution in an Irrigated River Basin: Methodology and Application (EPA-600/S2-83-008)
22090	Sources of Urban Runoff Pollution and Its Effect on an Urban Creek (EPA-600/S2-82-090)	22040	
22007	Compilation of Ames Salmonella typhimurium Plate Incorporation Test Protocols (EPA-600/S2-82-007)	22055	Drinking Water Cost Equations (EPA-600/S2-82-055)
22070	Acid Rain Mitigation Study: Volumes I and II. (EPA-600/S2-82-	22068	Preliminary Operations Plan and Guidelines for the At-Sea Incineration of Liquid PCB Wastes (EPA-600/S2-82-068)
22091	070) Organic Emissions from Iron Ore Sintering Plants: Determination	23020	Full-Scale Study of Sequencing Batch Reactors (EPA-600/S2]-83-020)
	of Causes and Methods of Abatement (EPA-600/S2-82-091)	22100	Factors Influencing Metal Accumulation by Algae (EPA-600)
22092	A Critical Review of Wastewater Treatment Plant Sludge Disposal by Landfilling (EPA-600/S2-82-092)	23016	S2-82-100) Effects of Organic Solvents on the Permeability of Clay Soils
22094	Characteristics and Treatability of Urban Runoff Residuals (EPA-600/S2-82-094)		(EPA-600/S2-83-016)
22099	Physical Properties and Leach Testing of Solidified/Stabilized Industrial Wastes (EPA-600/S2-82-099)		An Evaluation of Filter Feeding Fishes for Removing Excessive Nutrients and Algae from Wastewater (EPA-600/S2-83-019)
22039		22095	Basins (EPA-600/S2-82-095)
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23006	Significance of Size Reduction in Solid Waste Management:	23014	Evaluation of the Union Carbide PURASIV HR Vapor Recovery System (EPA-600/S2-83-014)
	Volume 3—Effects of Machine Parameters on Shredder Performance (EPA-600/S2-83-006)	23015	Overland Flow Treatment of Municipal Sewage at Easley, South Carolina (EPA-600/S2-83-015)
22093	Leachability and Revegetation of Solid Waste from Mining (EPA-600/S2-82-093)	23017	Rangeland Watershed Water Budget and Grazing Cattle Waste Nutrient Cycling (EPA-600/S2-83-017)
22096	Industrial Residue Management Alternatives for Allegheny County (Pittsburgh) Pennsylvania (EPA-600/S2-82-096)	23018	Radiofrequency Radiation Exposure Facilities for Bio-Effects Research (EPA-600/S2-83-018)
22035	Costs of Remedial Response Actions at Uncontrolled Hazardous Waste Sites (EPA-600/S2-82-035)	23021	Biochemical Analyses for Detection and Assessment of Pollution in the Subsurface Environment (EPA-600/S2-83-021)
22101	Performance Characteristics of Package Water Treatment Plants (EPA-600/S2-82-101)	23022	Reducing Runoff Pollution Using Vegetated Borderland for Manure Application Sites (EPA-600/S2-83-022)
22103	Status, Trends and Implications of Carbon Fiber Material Use (EPA-600/S2-82-103)	23023	Optimization of Wastes Treatment with Reference to Biogas and Protein Recovery (EPA-600/S2-83-023)
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23024	Resource Conservation and Utilization in Animal Waste Management (EPA-600/S2-83-024)	23051	Removal of Metals in Combined Treatment Systems (EPA-600/S2-83-051)
23025	Nonpoint Sediment Production in the Colusa Basin Drainage Area, California (EPA-600/S2-83-025)	23053	Lawrence Avenue Underflow Sewer System: Monitoring and Evaluation (EPA-600/S2-83-053)
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23028	Impact of Coal Refuse Disposal on Groundwater (EPA-600/S2-83-028)	23057	Land Treatment Field Studies (EPA-600/S2-83-057)
23029	User's Guide for the Automated Inhalation Exposure Methodology (IEM) (EPA-600/S2-83-029)	23058	Field Assessment of Site Closure, Boone County, Kentucky (EPA-600/S2-83-058)
23030	Analysis of Geothermal Wastes for Hazardous Components (EPA-600/S2-83-030)	23060	Wet Oxidation and Ozonation of Specific Organic Pollutants (EPA-600/S2-83-060)
23031	Pilot Plant Treatment of Acid Mine Drainage by Reverse Osmosis (EPA-600/S2-83-031)	23061	Activated Carbon Process for the Treatment of Cadmium(II)-Containing Wastewaters (EPA-600/S2-83-061)
23032	Organic Contaminant Removal in Lower Mississippi River Drinking Water by Granular Activated Carbon Adsorption (EPA-600/S2-83-032)	23062	Microbiological Alterations in Distributed Water Treated with Granular Activated Sludge (EPA-600/S2-83-062)
23033	Industrial Process Profiles for Environmental Use: Chapter 30, the Electronic Component Manufacturing Industry (EPA-600/S2-83-033)	23063	Evaluation of Alternative Wastewater Collection and Treatment Methods for Three Small Kansas Communities (EPA-600/S2-83-063)
23038	Supercritical Fluid Regeneration of Adsorbents (EPA-600/S2-83-038)	23064	Northbrook, Illinois (EPA-600/S2-83-064)
23039	Test Procedure for Iodine-131 in Drinking Water: Interlaboratory Collaborative Study (EPA-600/S2-83-039)		Treatment of Gaseous Emissions from Steelplants Containing Small Concentrations of Hydrocarbon Vapors (EPA-600/S2-83-065)
23040	Extraction of Pesticides from Process Streams Using High Volatility Solvents: A Feasibility Study (EPA-600/S2-83-040)	23067	Wastewater Treatment with Plants in Nutrient Films (EPA-600/S2-83-067)
23041	Control of Hydrocarbon Emissions from Cotton and Synthetic Textile Finishing Plants (EPA-600/S2-83-041)	23068	An Investigation of Selected Dye Carriers Used in Commercial Dyeing of Hydrophobic Fibers (EPA-600/S2-83-068)
23042	Optimizing Coagulation-Adsorption for Haloform and Total Organic Carbon Reduction (EPA-600/S2-83-042)	23069	Development and Application of a Water Supply Financial Reporting System: Volumes I and II (EPA-600/S2-83-069)
23043	Evaluation of Catchbasin Performance for Urban Stormwater Pollution Control (EPA-600/S2-83-043)	23071	Effect of Animal Grazing on Water Quality of Nonpoint Runoff in the Pacific Northwest (EPA-600/S2-83-071)
23044	Demonstration of the Use of Charged Fog in Controlling Fugitive Dust from Large-Scale Industrial Sources (EPA-600/S2-83-044)	23072	Irrigation Return Flow Water Quality Monitoring, Modeling and Variability in the Middle Rio Grande Valley, New Mexico (EPA-600/S2-83-072)
23045	Development and Assessment of Procedures for Collection, Chemical Characterization and Mutagenicity Testing of Ambient Air (EPA-600/S2-83-045)	23074	Land Treatability of Refinery and Petrochemical Sludges (EPA-600/S2-83-074)
23046	Field Verification of Liners from Sanitary Landfills (EPA-600/S2-83-046)	23075	Water Hyacinth Wastewater Treatment Systems: Opportunities and Constraints in Cooler Climates (EPA-600/S2-83-075)
23047	Predicting Preferential Adsorption of Organics by Activated Carbon (EPA-600/S2-83-047)	23077	The Fate of Organic Pollutants in a Wastewater Land Treatment System Using Lagoon Impoundment and Spray Irrigation (EPA-600/S2-83-077)
23048	Removing Organics from Philadelphia Drinking Water by Combined Ozonation and Adsorption (EPA-600/S2-83-048)	23078	Swine Manure and Lagoon Effluent Applied to Fescue (EPA-600/S2-83-078)
23049	Combined Sewer Overflow Characteristics from Treatment Plant Data (EPA-600/S2-83-049)	23079	
23050	Adaptation of the Simplex Gasification Process to the Co- Conversion of Municipal Solid Waste and Sewage Sludge (EPA- 600/S2-83-050)	23083	Plant-Scale Demonstration of Sludge Incinerator Fuel Reduction (EPA-600/S2-83-083)
23034	Survey of Industrial Applications of Aqueous-Phase and Vapor- Phase Activated Carbon Adsorption for Control of Pollutant Compounds from Manufacture of Organic Compounds (EPA-	23084	Demonstrate Real Time Automatic Control of Combined Sewer Systems (EPA-600/S2-83-084)
	600/S2-83-034/035)	23086	Combined Sewer Overflow Control: Application Guide and User's
23037	Emission Testing and Evaluation of the Enclosed Coke Pushing and Quenching System (EPA-600/S2-83-037)		Manual (EPA-600/S2-83-086)

23	3087	The Value of Flow Calibration for Decision Making in Infiltration/Inflow Studies (EPA-600/S2-83-087)	23107	The Equilibrium Arsenic Capacity of Activated Alumina (EPA 600/S2-83-107)
23	3089	Characterization and Treatment of Aqueous Wastes and Residue from Petroleum Refineries (EPA-600/S2-83-089)	23109	Potential Clogging of Landfill Drainage Systems (EPA-600 S2-83-109)
23	3094	Alternate Treatment of Organic Solvents and Sludges from Metal Finishing Operations: Final Report (EPA-600/S2-83-094)	23110	Iron and Steel Plant Open Source Fugitive Emission Control Evaluation (EPA-600/S2-83-110)
23	3101	A Study of PCB Destruction Efficiency and Performance for a Coal-Fired Utility Boiler (EPA-600/S2-83-101)	23111	Nitrification Inhibition Biokinetics (EPA-600/S2-83-111)
2	3108	Literature-Review Screening Techniques for the Evaluation of Land Treatment of Industrial Wastes (EPA-600/S2-83-108)		Evaluation of a Containment Barrier for Hazardous Material Spill in Watercourses (EPA-600/S2-83-112)
23	3052	Flare Efficiency Study (EPA-600/S2-83-052)	23113	Effects of Using Sewage Sludge on Agricultural and Disturbed Lands (EPA-600/S2-83-113)
23	3066	Cyanide Removal from Coke Making and Blast Furnace Waste Waters (EPA-600/S2-83-066)	23115	Three New Techniques for Floating Pollutant Spill Control and Recovery (EPA-600/S2-83-115)
23	3070	Evaluation of the Efficiency of Industrial Flares: Background— Experimental Design—Facility (EPA-600/S2-83-070)	23116	Design of a Remotely Controlled Hovercraft Vehicle for Spill Reconnaissance (EPA-600/S2-83-116)
23	3073	Determination of Activated Sludge Biokinetic Constants for Chemical and Plastic Industrial Wastewaters (EPA-600/S2-83-073a/b)	23117	Microbial Degradation of Selected Hazardous Materials: Penta- chlorophenol, Hexachlorocyclopentadiene, and Methyl Parathion (EPA-600/S2-83-117)
2	3080	Combined Treatment of Liquid Wastes from Industrial Swine Farms Using BLWRS (EPA-600/S2-83-080)	23118	Treatment of Reactive Wastes at Hazardous Waste Landfills (EPA-600/S2-83-118)
2	3081	A Comparison of Alternative Manure Management Systems— Effect on the Environment, Total Energy Requirement, Nutrient	23121	Water Supply Simulation Model Volumes I, II, and III (EPA-600/S2-83-121)
•	2005	Conservation, Contributions to Corn Silage Production and Economics (EPA-600/S2-83-081)	23122	Electroplating Plant Operating Conditions Related to Wastewater Sludge Leachability (EPA-600/S2-83-122)
2	3085	Polishing Industrial Waste Stream Effluents Using Fly Ash- Natural Clay Sorbent Combination (EPA-600/S2-83-085)	23123	Methods for Determining the Location of Abandoned Wells (EPA-600/S2-83-123)
2	3088	Feasibility of In-Situ Solidification/Stabilization of Landfilled Hazardous Wastes (EPA-600/S2-83-088)	23124	Guidelines for the Monitoring of Urban Runoff Quality (EPA 600/S2-83-124)
2	3091	Bromination Process for Disposal of Spilled Hazardous Materials (EPA-600/S2-83-091)	23125	Development of Methods to Define Water Quality Effects of Urban Runoff (EPA-600/S2-83-125)
2	3092	Multimedia Environmental Assessment of Electric Submerged ARC Furnaces Producing Ferroalloys (EPA-600/S2-83-092)	23126	Automated Control: A Review and Applications in Industrial Environmental Protection (EPA-600/S2-83-126)
2	3093	Control of Air Pollution Emission from Molybdenum Roasting (EPA-600/S2-83-093)	23127	Evaluation of Stable Labeled Compounds as Internal Standards for Quantitative GC/MS Determinations (EPA-600/S2-83-127)
		Application of Municipal Sludges on Energy Crops: A Feasibility Analysis (EPA-600/S2-83-095)	24003	Organic Emissions from Ferrous Metallurgical Industries: Compilation of Emission Factors and Control Technologies (EPA-600/
2	3096	An Evaluation of Subsurface Conditions at Refinery Land Treatment Sites (EPA-600/S2-83-096)	24005	S2-84-003)
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2	3098	Evaluation of Deep Shaft Biological Wastewater Treatment Process at Ithaca, New York (EPA-600/S2-83-098)	24006	Removal and Treatment of Contaminated River Bottom Muds: Field Demonstration (EPA-600/S2-84-006)
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33094 Environmental Levels of PCB in Great Lakes Fish (EPA-600/S3-

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34008 PCBs in Saginaw Bay: Development of Functional Indices to Estimate Inhibition of Ecosystem Fluxes (EPA-600/S3-84-008)

- 34009 Aquatic Toxicity Tests to Characterize the Hazard of Volatile Organic Chemicals in Water: A Toxicity Data Summary (EPA-600/S3-84-009)
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- 34011 Watershed Sensitivity Measurement Strategy for Identifying Resources at Risk from Acidic Deposition (EPA-600/S3-84-011)
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- 34034 Water Treatment Model for Pollutant Exposure Assessment: System Documentation and Users Manual (EPA-600/S3-84-034)
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43028 Analysis of Industrial Wastewater for Organic Pollutants in Consent Decree Survey Samples (EPA-600/S4-83-028)

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- 44009 Analytical Procedures for Aniline and Selected Derivatives in Wastewater and Sludge (EPA-600/S4-84-009)
- 44012 Documentation of EMSL-LV Contribution to Dallas Lead Study (EPA-600/S4-84-012)
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- 44024 Technical Assistance Document: The Use of Portable Volatile Organic Compound Analyzers for Leak Dectection (EPA-600/S4-84-024)
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- 44027 Interlaboratory Comparisons Study: Methods for Volatile and Semivolatile Compounds (EPA-600/S4-84-027)
- 44028 Multielemental Analytical Techniques for Hazardous Waste Analysis: The State-of-the-Art (EPA-600/S4-84-028)
- 44029 Report on Analytical Methodology for Purgeable and Semivolatile Components in Leachates and Solid Wastes (EPA-600/S4-84-029)
- 44030 Laboratory Evaluation of Tunable Atomic Line Molecular Spectrometers for Benzene Analysis (EPA-600/S4-84-030)
- 44031 Study of Carbon Monoxide Exposure of Residents of Washington, DC and Denver, Colorado (EPA-600/S4-84-031)
- 44032 Summary of Precision and Accuracy Assessments for the State and Local Air Monitoring Networks—1981 (EPA-600/S4-84-032)
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- 44034 Final Sampling Report for the Study of Personal CO Exposure (EPA-600/S4-84-034)
- 44035 Guidelines for Determination of Laboratory Acceptability for Analysis of Volatile Organic Pollutants Collected on Tenax GC® Adsorbant (EPA-600/S4-84-035)
- 44036 Performance Audit Results for POHC: VOST and Bag Measurement Methods (EPA-600/S4-84-036)
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- 44038 Characterization of Hazardous Waste Sites—A Methods Manual: Volume III. Available Laboratory Analytical Methods (EPA-600/S4-84-038)

- 44039 EPA Method Study 22, Method 612—Chlorinated Hydrocarbons (EPA-600/S4-84-039)
- 44042 EPA Method Study 25, Method 602—Purgeable Aromatics (EPA-600/S4-84-042)
- 44043 Soil Sampling Quality Assurance User's Guide (EPA-600/S4-84-043)
- 44044 EPA Method Study 14, Method 604—Phenols (EPA-600/S4-84-044)
- 44045 EPA Method Study 12, Cyanide in Water (EPA-600/S4-84-045)
- 44046 Geothermal Environmental Impact Assessment: An Approach to Groundwater Impacts from Development, Conversion, and Waste Disposal (EPA-600/S4-84-046)
- 44049 Compendium of Selected Methods for Sampling and Analysis at Geothermal Facilities (EPA-600/S4-84-049)
- 44051 EPA Method Study 17, Method 607—Nitrosamines (EPA-600/S4-84-051)
- 44052 EPA Method Study 21, Method 611—Haloethers (EPA-600/ S4-84-052)
- 44053 EPA Method Study 30, Method 625—Base/Neutrals, Acids, and Pesticides (EPA-600/S4-84-053)
- 44054 EPA Method Study 29, Method 624—Purgeables (EPA-600/ S4-84-054)
- 44057 Single Laboratory Evaluation of the Hydrogen Oxidation Soil Bioassay (EPA-600/S4-84-057)
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- 53001 Effect of Agricultural Land Use Practices on Stream Water Quality Economic Analysis (EPA-600/S5-83-001)
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- 63002 Assessment of Potential Environmental Problems Concerning Water Availability (EPA-600/S6-83-002)
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- 64002 Mini-Assessment: Total Exposure Assessment and Exposure-Dose Relationships (EPA-600/S6-84-002)
- 64004 Institutional Responses to Contamination of Ground Water Used for Public Water Supplies: Implications for EPA R&D Programs (EPA-600/S6-84-004)
- 64005 Assessment for Future Environmental Problems—Agricultural Residues (EPA-600/S6-84-005)

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- 72025a Ammonium Sulfate and Bisulfate Formation in Air Preheaters (EPA-600/S7-82-025a)
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- 89029 Distribution and Abundance of Submerged Aquatic Vegetation in the Lower Chesapeake Bay, Virginia (EPA-600/S8-79-029)
- 82019 Assessment of Future Environmental Trends and Problems of Increased Use, Recycling, and Combustion of Fiber-Reinforced, Plastic and Metal Composite Materials (EPA-600/S8-82-019)
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- 82023 PAL-DS Model: The PAL Model Including Deposition and Sedimentation—User's Guide (EPA-600/S8-82-023)
- 82024 MPTER-DS: The MPTER Model Including Deposition and Sedimentation—User's Guide (EPA-600/S8-82-024)
- 82028 Engineering Design Manual for Solid Waste Size Reduction Equipment (EPA-600/S8-82-028)
- 83010 Synthetic Fuel Pollution Control Technical Manuals (EPA-600/ S8-83-010)
- 83015 Complex/PFM Air Quality Model User's Guide (EPA-600/S8-83-015)

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- 83022 Commuter Exposure Model: Description of Model Methodology and Code, and User's Guide (EPA-600/S8-83-022/023)
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- 84017 Particulate Data Reduction (PADRE) System Reference Manual (EPA-600/S8-84-017)

Miscellaneous Project Summaries

- 92010 Mini-Assessment of Environmental Trends and Problems: Alternative Feedstocks (EPA-600/S9-82-010)
- 92008 Proceedings: Third Conference on Waste Heat Management and Utilization (May 1981, Miami Beach, FL) (EPA-600/S9-82-008)
- 92012 Proceedings: EPA's Industry Briefing on the Adipic Acid Enhanced Limestone FGD Process (July 1981) (EPA-600/S9-82-012)
- 92011 Nineteenth Century Technology—Twentieth Century Problems: A Retrospective Mini-Assessment (EPA-600/S9-82-011)
- Proceedings: Symposium on Environmental Aspects of Fuel Conversion Technology—VI, A Symposium on Coal-Based Synfuels—October 1981 (EPA-600/S9-82-017)
- 92022 Fourth Conference on Advanced Pollution Control for the Metal Finishing Industry (Proceedings) (EPA-600/S9-82-022)

- 92021 Proceedings: Symposium on Iron and Steel Pollution Abatement for 1981 (EPA-600/S9-82-021)
- 93001 Proceedings of the Fifth Fundamental Combustion Research Contractors Workshop (EPA-600/S9-83-001)
- 92005a Third Symposium on the Transfer and Utilization of Particulate Control Technology: Vol. I. Control of Emissions from Coal-Fired Boilers (EPA-600/S9-82-005a)
- 92005b Third Symposium on the Transfer and Utilization of Particulate Control Technology: Vol. II. Electrostatic Precipitators (EPA-600/S9-82-005b)
- 92005c Third Symposium on the Transfer and Utilization of Particulate Control Technology: Vol. III. Particulate Control Devices (EPA-600/S9-82-005c)
- 92005d Third Symposium on the Transfer and Utilization of Particulate Control Technology: Vol. IV. Atypical Applications (EPA-600/S9-82-005d)
- 93016 Proceedings: Symposium on Iron and Steel Pollution Abatement Technology for 1982 (EPA-600/S9-83-016)
- 93020 Proceedings: Symposium on Flue Gas Desulfurization, Hollywood, Florida, May 1982 (EPA-600/S9-83-020)
- 94002 Proceedings: Fifth Workshop on Catalytic Combustion (San Antonio, Texas, September 1981) (EPA-600/S9-84-002)
- 94003 Utilization of Municipal Wastewater and Sludge on Land: Proceedings of the 1983 Workshop (EPA-600/S9-84-003)
- 94007 Land Disposal of Hazardous Waste. Proceedings of the Tenth Annual Research Symposium (EPA-600/S9-84-007)
- 94011 EADS Gaseous Emissions Data System: 1982 Annual Report (EPA-600/S9-84-011)
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1 1000	22060	23014	23068	23121	24049	24113	32066	33027	33093	34046	42050	43051	52001	72057a 72057b	73057
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22020	22073	23027	23081	24009	24061	32013	32081	33047	33111	34060	43002	44008	72009	72068 73005	74010
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