



ORD Publications Announcement

Nov.- Dec. 1981/Jan. 1982

The Environmental Protection Agency's Office of Research and Development announces the availability of printed publications on a wide range of environmental topics. As a part of EPA's efforts to make available better information for environmental decision making, we are offering the following types of publications at no charge.

Project Summaries are short synopses of key findings of project reports. These reports present the results of recently completed research, development and engineering work. The summaries convey the essence of a project in terms comprehensible to the technical community at large. The complete reports are available only from the National Technical Information Service.

Research Summaries are issue- or problem-oriented summaries of EPA's research activities in a particular area. They include distilled descriptions of all of our major research projects which address the subject of the booklet.

Decision Series documents are carefully crafted to address major environmental issues and concerns. They present a concise and clear statement of the scientific facts as known to major experts in the research community. These documents are aimed at decision makers involved in the formulation of environmental research policies.

Program Summaries and Plans go into significantly more programmatic detail than the above-mentioned reports and are intended to convey both the substance and the organizational

structure of the research program. They are designed to satisfy those whose interest in our program requires a greater level of detail.

Other Publications of EPA's research program include a *Program Guide* (describing our major research areas and the extramural resources associated with each), the *Research Highlights* (describing our major accomplishments of the preceding year), and the *Research Outlook* (EPA's five-year research strategy).

The *ORD Publications Announcement* is published monthly to provide interested parties with access to the broad range of currently available documents produced by the Office of Research and Development. It will be mailed monthly upon request to individuals who may wish to order this material. Orders are filled until the supply of a particular report is exhausted.

The following pages list titles of publications that are available in each category; Project Summaries are subdivided by subject area. Publications announced for the first time are displayed in bold type. To order any publication, circle the corresponding order number on the order form at the back of this *Announcement* and return the entire back page, with your mailing label attached, to:

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Announcement for Publication Material

Project Summaries

Environmental Health Effects Research

- 10001 Pesticide Effects on Prenatal Cardiovascular Physiology (Mirex-Exposed Rat Fetuses and Newborns) (EPA-600/S1-80-032)
- 10002 Study of Pathogenic Free-Living Amebas in Fresh-Water Lakes in Virginia (EPA-600/S1-80-037)
- 10003 The Effect of Ozonation of Organics in Wastewater (EPA-600/S1-81-005)
- 10004 Chromosome Aberrations in Peripheral Lymphocytes of College Students as a Response to Photochemical Air Pollution (EPA-600/S1-81-007)
- 10005 Effects of 2% Venous Carboxyhemoglobin on Exercise-Induced Angina Pectoris (EPA-600/S1-81-012)
- 10006 Health Risks of Human Exposure to Wastewater (EPA-600/S1-81-002)
- 10007 Effect of Industrial Particulate Samples on Alveolar Macrophages (EPA-600/S1-81-003)
- 10008 Chronic Toxicity of Lead and Cadmium II. Changes in the Central Nervous System of the F₁ Generation of Rats After Chronic Intoxication with Lead and Cadmium (EPA-600/S1-81-013)
- 10009 Effect of Chlorine Dioxide, Chlorite and Nitrite on Mice with Low and High Levels of Glucose 6 Phosphate Dehydrogenase (G6PD) in their Erythrocytes (EPA-600/S1-81-014)
- 10010 Assessment of Mutagenic Potential of Mixtures of Organic Substances in Renovated Water (EPA-600/S1-81-016)
- 10011 Air Pollution and Health Effects in Children Residing in Akron, Ohio (EPA-600/S1-81-004)
- 10012 Sensitive Biochemical and Behavioral Indicators of Trace Substances Exposure: Part 1. Cerium (EPA-600/S1-81-011)
- 10013 Mutagenesis Screening of Pesticides Using *Drosophila* (EPA-600/S1-81-017)
- 10014 Epidemiological Study of *Klebsiella pneumoniae* Among Pulp and Paper Mill Workers (EPA-600/S1-81-023)
- 10015 Investigation of Effects of Prolonged Inhalation of Nickel - Enriched Fly Ash in Syrian Golden Hamsters (EPA-600/S1-81-009)
- 10016 *Tradescantia* MCN-In-Tetrad Mutagen Test for On-Site Monitoring and Further Validation (EPA-600/S1-81-019)
- 10017 Method Development for the Assessment of Possible Human Exposure to Pesticides and Industrial Chemicals (EPA-600/S1-81-024)
- 10018 Effects of Halogenated Aromatic Compounds on the Metabolism of Foreign Organic Compounds (EPA-600/S1-81-010)
- 10019 Sewage Sludge Viral and Pathogenic Agents in Soil-Plant-Animal Systems (EPA-600/S1-81-026)
- 10020 Health Effects of Swimming in Lake Pontchartrain at New Orleans (EPA-600/S1-81-027)
- 10021 Aerosols Generated by Liquid Sludge Application to Land (EPA-600/S1-81-028)
- 10022 Mutagenic Activity and Chemical Characterization for the Palo Alto Wastewater Reclamation and Groundwater Injection Facility (EPA-600/S1-81-029)
- 10023 Effects of Sulfur Oxide Pollutants on Respiratory Function, Particle Deposition and Bronchial Clearance (EPA-600/S1-80-035)
- 10024 Potential Health Effects from Viable Emissions and Toxins Associated with Wastewater Treatment Plants and Land Application Sites (EPA-600/S1-81-006)
- 10025 Determining Effect of Pollutants on the Immune System (EPA-600/S1-81-020)
- 10026 Tracheal Organ Culture as Air Pollution Damage Indicator (EPA-600/S1-81-021)
- 10027 Pilot Program for the National Environmental Specimen Bank-Phase I (EPA-600/S1-81-025)
- 10028 Effects of Etiologically Defined Respiratory Infection on Lung Function and Its Growth in an Area of Low Air Pollution-Spirometry in Young Children When Illness-Free (EPA-600/S1-81-022)
- 10029 Evaluation of the Health Risks Associated with the Treatment and Disposal of Municipal Wastewater and Sludge (EPA-600/S1-81-030)
- 10030 Health Effects of Sewage Aerosols: Additional Serological Surveys and Search for *Legionella pneumophila* in Sewage (EPA-600/S1-81-032)
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- 10032 Teratology and Postnatal Studies in Rats of the Propylene Glycol Butyl Ether and Isoctyl Esters of 2,4-Dichlorophenoxyacetic Acid (EPA-600/S1-81-035)
- 10033 Carcinogenic Potential of Rotenone: Subchronic Oral and Peritoneal Administration to Rats and Chronic Dietary Administration to Syrian Golden Hamsters (EPA-600/S1-81-037)
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- 10036 Skeletal Variants as an Indicator of Biological Effects of Environmental Contaminants (EPA-600/S1-81-034)
- 10037 Report of Workshop on Epidemiologic Studies of Airborne Particles (EPA-600/S1-81-039)
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- 10039 Hematologic and Immunologic Studies of Humans Exposed to SO₂ (EPA-600/S1-81-047)
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- 10047 Ultrastructure and X-Ray Microanalysis of Macrophages Exposed to Non-Criteria Pollutants with Emphasis on Certain Metals (EPA-600/S1-81-018)

- 10048 Improved Scoring of Chemical Transformation of C3H/10T1/2 Cells (EPA-600/S1-81-046)
- 10049 Sensitive Biochemical and Behavioral Indicators of Trace Substance Exposure, Part II. Platinum (EPA-600/S1-81-015)
- 10050 Epidemiological Studies of Otitis Externa: Report of a Prospective and of a Retrospective Study of Otitis Externa Among Swimmers (EPA-600/S1-81-053)
- 10051 Effects of Post-Implantation Exposure to Selected Pesticides on Reproductivity in Rats (EPA-600/S1-81-048)
- 10052 New Approaches to Quantitating the Pulmonary Effects of Inhaled Pollutants (EPA-600/S1-81-052)
- 10053 Evaluation of Mutagenic Effects of Diesel Emissions: I. Tests for Heritable and Germ-Cell Effects in the Mouse (EPA-600/S1-81-056)
- 10054 Development of Methodology for Determining Risk Assessment When Sludge is Applied to Land (EPA-600/S1-81-058)
- 10055 Ozone Exposure and Pulmonary Metabolic Effects of Mediators and Hormones (EPA-600/S1-81-051)
- 10056 Association Between Birth Defects and Exposure to Ambient Vinyl Chloride (EPA-600/S1-81-057)
- 10057 Recreational Water Quality and Health (EPA-600/S1-81-059)**
- 10058 Respiratory Carcinogenicity of Diesel Fuel Emissions (EPA-600/S1-81-054)**
- 10059 Sewage Sludge Pathogen Transport Model Project (EPA-600/S1-81-049)**
- 10060 Study of Chlorine Dioxide and Its Metabolites in Man (EPA-600/S1-81-068)**
- 10061 Studies in Children Exposed to Low Levels of Lead (EPA-600/S1-81-066)**

Environmental Protection Technology

- 20001 The Revised Organic Chemical Producers Data Base System (EPA-600/PS2-80-164)
- 20002 EXEC/OP Reference Manual Version 1.2 (EPA-600/PS2-80-182)
- 20003 Source Assessment: Dry Bottom Utility Boilers Firing Pulverized Bituminous Coal (EPA-600/S2-80-042C)
- 20004 Assessment of Atmospheric Emissions from Petroleum Refining (EPA-600/S2-80-075)
- 20005 Collection and Interpretation of Level 1 IR and LRMS Data (EPA-600/S2-80-177)
- 20006 GC/MS Methodology for Measuring Priority Organics in Municipal Wastewater Treatment (EPA-600/S2-80-196)
- 20007 Evaluation and Application of SO_x Measurement Procedures for Kraft Recovery Furnaces (EPA-600/S2-80-186)
- 20008 Predicting Cattle Feedlot Runoff and Retention Basin Quality (EPA-600/S2-80-192)
- 20009 Innovative Destruction of Complex Industrial Wastes—Auto Oxidation of Tannery Beamhouse Wastewater (EPA-600/S2-80-210)
- 20010 Long Term Effects of the Barge Florida Oil Spill (EPA-600/S2-81-012)
- 20011 Development of a Chemical Toxicity Assay for Pulp Mill Effluents (EPA-600/S2-80-206)
- 20012 Process Spill Monitoring, Control and Recovery in the Pulp and Paper Industry (EPA-600/S2-80-211)
- 20013 Assessment of Organic Emissions in the Flexible Packaging Industry (EPA-600/S2-81-009)
- 20014 The Cost of Alternative Flue Gas Desulfurization (FGD) Sludge Disposal Regulations (EPA-600/S2-80-178)
- 20015 Cost Comparisons of Treatment and Disposal Alternatives for Hazardous Materials. Volumes I and II (EPA-600/S2-80-188)
- 20016 GC/MS Analysis of Ambient Aerosols in the Houston, Texas Area (EPA-600/S2-80-194)
- 20017 Modified Factor Analysis of Selected RAPS Aerosol Data (EPA-600/S2-80-195)
- 20018 Polynuclear Aromatic Compounds-Synthesis and Purification (EPA-600/S2-80-204)
- 20019 Treatment of Primary Effluent by Rapid Infiltration (EPA-600/S2-80-207)
- 20020 Municipal Solid Waste Disposal in Estuaries and Coastal Marshlands (EPA-600/S2-80-212)
- 20021 Chlorination of Aquatic Humic Substances (EPA-600/S2-81-016)
- 20022 Concentration Technologies for Hazardous Aqueous Waste Treatment (EPA-600/S2-81-019)
- 20023 Field Tests of Corrosion Control to Protect Asbestos-Cement Pipe (EPA-600/S2-81-023)
- 20024 Production of Non-Food-Chain Crops with Sewage Sludge (EPA-600/S2-80-199)
- 20025 Metal Particulate Emissions from Stationary Sources. Volume 1. Standard Sampling and Analysis Method (EPA-600/S2-80-202)
- 20026 Metal Particulate Emissions from Stationary Sources. Volume 2. Characterization of Collection Filters (EPA-600/S2-80-203)
- 20027 Nationwide Assessment of Receiving Water Impacts from Urban Stormwater Pollution. Volume 1: Summary (EPA-600/S2-81-025)
- 20028 Particle Size Variation Effects on Landfilled Solid Waste: Cold Climate Studies (EPA-600/S2-81-018)
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- 20051 Response Factors of VOC Analyzers Calibrated with Methane for Selected Organic Chemicals (EPA-600/S2-81-002)
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- 20058 Physical/Chemical Treatment of Blast Furnace Wastewaters Using Mobile Pilot Units (EPA-600/S2-80-107)
- 20059 Safe Disposal Methods for Agricultural Pesticide Wastes (EPA-600/S2-81-074)
- 20060 Field Evaluation of a Swirl Degritter at Tamworth, New South Wales, Australia (EPA-600/S2-81-063)
- 20061 Areal Prediction of Water and Solute Flux in the Unsaturated Zone (EPA-600/S2-81-058)
- 20062 Soil Temperature and Sewage Sludge Effects on Plant and Soil Properties (EPA-600/S2-81-069)
- 20063 Joint Dry/Wet Weather Treatment of Municipal Wastewater at Clatskanie, Oregon (EPA-600/S2-81-061)
- 20064 Filter Media for Collection Diesel Particulate Matter (EPA-600/S2-81-071)
- 20065 Engineering Assessment of Vermicomposting Municipal Wastewater Sludges (EPA-600/S2-81-075)
- 20066 Effectiveness of Activated Carbon for Removal of Toxic and/or Carcinogenic Compounds from Water Supplies (EPA-600/S2-81-057)
- 20067 Report of the Interagency Ad Hoc Work Group for the Chemical Waste Incineration Ship Program (EPA-600/S2-81-037)
- 20068 Lime Stabilization and Ultimate Disposal of Municipal Wastewater Sludges (EPA-600/S2-81-076)
- 20069 Irrigation Tailwater Management (EPA-600/S2-81-034a)
- 20070 Evaluation of the Effectiveness of Granular Activated Carbon Adsorption and Aquaculture for Removing Toxic Compounds from Treated Petroleum Refinery Effluents (EPA-600/S2-81-067)
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- 20076 The Removal of Trace Organics from Drinking Water Using Activated Carbon and Polymeric Adsorbents (EPA-600/S2-81-077, 078, 079)
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- 20091 Level 1 Environmental Assessment of Electric Submerged-Arc Furnaces Producing Ferroalloys (EPA-600/S2-81-038)
- 20092 Effect of Flue Gas Cleaning Sludges on Selected Liner Materials (EPA-600/S2-81-098)
- 20093 Chlorine Dioxide for Wastewater Disinfection: A Feasibility Study (EPA-600/S2-81-092)
- 20094 Feasibility Study of Open Tank Oxygen-Activated Sludge Wastewater Treatment (EPA-600/S2-81-095)
- 20095 Evaluation of the Full-Scale Application Anaerobic Sludge Digestion at the Blue Plains Wastewater Treatment Facility—Washington, DC (EPA-600/S2-81-105)
- 20096 Fugitive Emission Sources and Batch Operations in Synthetic Organic Chemical Production (EPA-600/S2-81-083)
- 20097 Evaluation of Ion Exchange Technology for Toxic and Non-Conventional Pollutant Reduction in Bleach Plant Effluents (EPA-600/S2-81-086)
- 20098 Maintenance of the Organic Chemical Producers Data Base (EPA-600/S2-81-099)
- 20099 Physical/Chemical Treatment of Coke Plant Wastewater (EPA-600/S2-81-053)
- 20100 Ferrous Metals Recovery at Recovery 1, New Orleans, Louisiana (EPA-600/S2-81-102)
- 20101 Data Reduction Techniques for Aerosol Size Distribution Measuring Instruments (EPA-600/S2-81-104)
- 20102 Pilot-Scale Anaerobic Filter Treatment of Heat Treatment Liquor (EPA-600/S2-81-114)
- 20103 Physical Properties and Leach Testing of Solidified/Stabilized Flue Gas Cleaning Wastes (EPA-600/S2-81-116)
- 20104 Overland Flow Treatment of Poultry Processing Wastewater in Cold Climates (EPA-600/S2-81-093)
- 20105 Monitoring Techniques for Carbon Fiber Emissions. Evaluation A (EPA-600/S2-81-048)
- 20106 Modification of Optical Instrument for In-Stack Monitoring of Respirable Particle Size (EPA-600/S2-81-096)
- 20107 Characterization of Boliden's Sulfide-Lime Precipitation System (EPA-600/S2-81-081)
- 20108 Protein Recovery from Beef Packing Effluent (EPA-600/S2-81-112)
- 20109 High Altitude Testing of Residential Wood-Fired Combustion Equipment (EPA-600/S2-81-127)
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- 20112 Securing Containerized Hazardous Wastes by Encapsulation with Spray-On/Brush-On Resins (EPA-600/S2-81-140)
- 20113 Wood Preserving Industry Multimedia Emission Inventory (EPA-600/S2-81-066)
- 20114 Resource Recovery From Plastic and Glass Wastes (EPA-600/S2-81-123)

- 20115 VOC Emissions Control Technologies for Ship Painting Facilities (EPA-600/S2-81-131)
- 20116 Laboratory Studies of Priority Pollutant Treatability (EPA-600/S2-81-129)
- 20117 Removal of Heavy Metals and Suspended Solids from Battery Wastewaters: Application of Hydroperm Cross-Flow Microfiltration (EPA-600/S2-81-147)
- 20118 Nitrogen and Phosphorus Reactions in Overland Flow of Wastewater (EPA-600/S2-81-150)
- 20119 Investigation of New Techniques for Control of Smelter Arsenic Bearing Wastes (EPA-600/S2-81-049)
- 20120 Soil Filtration of Sewage Effluent of a Rural Area (EPA-600/S2-81-151)
- 20121 Response Factors of VOC Analyzers at a Meter Reading of 10,000 PPMV for Selected Organic Compounds (EPA-600/S2-81-051)
- 20122 Two-Stage Biological Treatment of Coke Plant Wastewater (EPA-600/S2-81-052)
- 20123 VOC Fugitive Emissions Data—High Density Polyethylene Process Unit (EPA-600/S2-81-109)
- 20124 Response of Portable VOC Analyzers to Chemical Mixtures (EPA-600/S2-81-110)
- 20125 Analysis of SOCM1 VOC Fugitive Emissions Data (EPA-600/S2-81-111)
- 20126 Using Coherent Water Jets to Control Oil Spills (EPA-600/S2-81-141)
- 20127 Potential Environmental Problems of Enhanced Oil and Gas Recovery Techniques (EPA-600/S2-81-149)
- 20128 Ultraviolet Disinfection of a Secondary Wastewater Treatment Plant Effluent (EPA-600/S2-81-152)
- 20129 Performance Testing of the Soviet Oil/Debris Skimmer (EPA-600/S2-81-154)
- 20130 Inorganic Contaminant Removal from Drinking Water by Reverse Osmosis (EPA-600/S2-81-115)
- 20131 Group Treatment Evaluation for Metal Finishers (EPA-600/S2-81-143)
- 20132 Field Investigation of Contaminant Loss from Chemically Stabilized Industrial Sludges (EPA-600/S2-81-163)
- 20133 Critical Factors Controlling Vegetation Growth on Completed Sanitary Landfills (EPA-600/S2-81-164)
- 20134 Parallel Evaluation of Air- and Oxygen-Activated Sludge (EPA-600/S2-81-155)
- 20135 Characterizing Baghouse Performance to Control Asbestos Manufacturing Source Emissions (EPA-600/S2-81-126)
- 20136 Demonstration of Zinc Cyanide Recovery Using Reverse Osmosis and Evaporation (EPA-600/S2-81-132)
- 20137 Treatment of Metal Finishing Wastes by Use of Ferrous Sulfide (EPA-600/S2-81-142)
- 20138 Nickel Recovery from Electroplating Rinsewaters by Electrodialysis (EPA-600/S2-81-130)
- 20139 Assessment of Emerging Technologies for Metal Finishing Pollution Control: Three Case Studies (EPA-600/S2-81-153)
- 20140 Evaluation of Solvent Loss from Vapor Degreaser Systems Phases 2 and 3: Effect of Crosscurrent Air Velocity on Control System Performance (EPA-600/S2-81-072)
- 20141 Small Size-Range Extension of an Optical Particle Counter (EPA-600/S2-81-144)
- 20142 Monitoring Techniques for Carbon Fiber Emissions: Evaluation B (EPA-600/S2-81-145)
- 20143 Design Optimization of the Chlorination Process: Volume 1. Comparison of Optimized Pilot System with Existing Full-Scale Systems (EPA-600/S2-81-167)
- 20144 Deployment Configurations for Improved Oil Containment with Selected Sorbent Booms (EPA-600/S2-81-168)
- 20145 Dispersant Application System for the U.S. Coast Guard 32-Foot WPB (EPA-600/S2-81-172)
- 20146 Effect of Halogens on *Giardia* Cyst Viability (EPA-600/S2-81-174)
- 20147 Literature Study of Biodegradability of Chemicals in Water: Volumes 1 and 2 (EPA-600/S2-81-175/176)
- 20148 Granular Activated Carbon Installations (EPA-600/S2-81-177)
- 20149 Evaluation of On-Site Wastewater Treatment and Disposal Options (EPA-600/S2-81-178)
- 20150 Production Engineering and Marketing Analysis of the Rotating Disk Evaporator (EPA-600/S2-81-179)
- 20151 Fundamental Considerations for Preparing Densified Refuse-Derived Fuel (EPA-600/S2-81-180)
- 20152 Revegetating Strip-Mined Land with Municipal Sewage Sludge (EPA-600/S2-81-182)
- 20153 Coal: dRDF Demonstration Test in an Industrial Spreader Stoker Boiler. Use of Coal: dRDF Blends in Stoker-Fired Boilers. Volumes I and II (EPA-600/S2-81-183/184)
- 20154 Performance Testing of Four Skimming Systems (EPA-600/S2-81-189)
- 20155 Treatment Effectiveness: Oil Tanker Ballast Water Facility (EPA-600/S2-81-192)
- 20156 Catalytic Incineration of Low Concentration Organic Vapors (EPA-600/S2-81-017)
- 20157 Density Levels of Pathogenic Organisms in Municipal Wastewater Sludge—A Literature Review (EPA-600/S2-81-170)
- 20158 Engineering and Economic Assessment of Autoheated Thermophilic Aerobic Digestion with Air Aeration (EPA-600/S2-81-171)
- 20159 Demonstration Physical Chemical Sewage Treatment Plant Utilizing Biological Nitrification (EPA-600/S2-81-173)
- 20160 Impediments to Energy and Materials Recovery Facilities for Municipal Solid Waste (EPA-600/S2-81-181)
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