

Alphabetical Listing of Titles



Abandoned Mine Site Characterization and Cleanup Handbook

A resource for project managers working on addressing the environmental concerns posed by inactive mines and mineral processing sites. Focuses on environmental hazards at abandoned mining sites, rather than physical hazards. Emphasizes the need for developing partnerships in addressing the environmental concerns posed by inactive mines. Includes an overview of mining and mineral processing operations, environmental impacts from mining, setting goals and measuring success of mine cleanup, community involvement at mining site cleanups, scoping studies of mining and mineral processing impact areas, sampling and analysis of impacted areas, scoping and conducting ecological and human health risk assessments at Superfund mine waste sites, site management strategies, remediation and cleanup options, and the regulatory "toolbox." Appendices include a list of acronyms and glossary of mining terms, acid mine drainage, mining sites on the National Priority List, general discussion of applicable or relevant and appropriate requirements at Superfund mining sites, X-Ray fluorescence, risk assessment scoping, detailed information on mine remediation technologies, innovative technologies, EPA mining contacts, Internet resources, land disposal restrictions overview and bibliography, mine waste technology program, and remediation references. Also available on CD-ROM.

03/15/2001

Order Number: EPA530-R-01-002 Order Form: OSW
Order Number: EPA530-C-01-001 Order Form: OSW

Abstracts of Selected Precious Metal Mines' Permits

Compiles permit application requirements, permit limitations, and permit conditions for selected precious metal mines located in the United States. Includes 46 questionnaires prepared by seven states active in precious metal mining.

(EPA530-R-92-009) 12/15/1991

Order Number: PB92-180 090 Order Form: NTIS

Action Leakage Rates for Leak Detection Systems; Supplemental Background Document for the Final Double Liners and Leak Detection Systems Rule for Hazardous Waste Landfills, Waste Piles, and Surface Impoundments

Supplements the background document for May 29, 1987, regarding the double liners and leak-detection systems rule. Explains applications of formulas in the original document to calculate an action leakage rate. Presents additional data on flow rates achieved at various double-lined facilities. References newly issued technical guidance that contains useful information about various action standards in the final rule.

(EPA530-R-92-004) 01/15/1992

Order Number: PB92-128 214 Order Form: NTIS

Addendum to the Regulatory Impact Analysis for the Final Criteria for Municipal Solid Waste Landfills

Represents EPA's best efforts to quantify the costs, economic impacts, and benefits of regulatory options relating to Subtitle D criteria for MSW landfills.

(EPA530-SW-91-073B) 08/15/1991

Order Number: PB92-100 858 Order Form: NTIS

*Adventures of the Garbage Gremlin: Recycle and Combat a Life of Grime (Comic Book)

Contains information about recycling for elementary and middle school students. This appealing comic book features the Garbage Gremlin, a character who is constantly outwitted by students who practice recycling. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/recycle/gremlin/gremlin.htm>.

08/15/1990

Order Number: EPA530-SW-90-024 Order Form: OSW

Alternate Concentration Limit Guidance; Part I: ACL Policy and Information Requirements

Provides guidance to RCRA facility permit applicants and writers to establish groundwater protection standards by demonstrating ACLs. Explains 19 criteria to evaluate ACL requests.

(EPA530-SW-87-017) 07/15/1987

Order Number: PB87-206 165 **Order Form: NTIS**

Alternate Concentration Limit Guidance; Part II: Based on 264.94(B) Criteria; Case Studies

Presents examples of information appropriate for ACL demonstrations under 40 CFR Part 264.94(b). Five case studies serve as models in implementing Part I of the ACL Guidance Document.

(EPA530-SW-87-031) 05/15/1988

Order Number: PB88-214 267 **Order Form: NTIS**

Alternative Daily Cover Materials for Municipal Solid Waste Landfills

Examines the potential of alternative daily cover materials as options to the daily soil cover mandated for MSW landfills. Describes functions and types of these materials and regulations pertaining to them. Provides references.

(EPA530-R-92-024) 06/01/1992

Order Number: PB92-208 206 **Order Form: NTIS**

An Analysis of Composting as an Environmental Remediation Technology

Summarizes the available information on the use of compost for managing hazardous waste streams and for remediating soil contaminated with toxic organic compounds (such as solvents and pesticides) and inorganic compounds (such as toxic metals). Indicates possible areas for future investigations. Discusses compost-based biofilters for treatment of contaminated air and wastewater streams, potential for reclamation of mine spoils and Brownfields with compost, suppression of plant diseases and pests by compost, compost-enhanced phytoremediation of contaminated soil, and the development of special-purpose or customized composts. Includes references at the end of each chapter and a bibliography.

(EPA530-R-98-008) 04/15/1998

Order Number: PB99-156 150 **Order Form: NTIS**

Analysis of Potential Cost Savings and the Potential for Reduced Environmental Benefits of the Proposed Universal Waste Rule

Addresses proposed changes to the management of universal wastes (e.g., nickel-cadmium and mercuric oxide batteries and mercury-containing thermostats) under RCRA. Discusses characteristics of universal wastes, cost analysis, and the potential for reductions in environmental benefits. Appendix lists sources for unit cost estimates.

04/15/1994

Order Number: EPA530-R-94-023 **Order Form: OSW**

Analysis of U.S. Municipal Waste Combustion Operating Practices

Characterizes the municipal waste combustion industry from data gathered through a nationwide survey. The information collected includes a description of each facility, characterization of waste received, review of recycling activities, description of residue generation, and residue handling and disposal practices.

(EPA530-SW-89-061) 05/18/1989

Order Number: PB89-220 578 **Order Form: NTIS**

Application of Geophysics to Acid Mine Drainage Investigations; Volume I: Literature Review and Theoretical Background

Evaluates the utility of geophysical techniques in detecting and monitoring acid mine drainage contamination from mine wastes. Discusses the geochemistry of acid mine drainage, the relationship between ion concentration and specific conductance, empirical relationships that are available to predict the resistivity of soil and rock, and formulas for determining the optimum line spacing for geophysical surveys and the associated probabilities. Includes a review and summary of literature on geophysical methods that might be useful in evaluating migration of the high specific conductance contaminants in ground water.

(EPA530-R-95-013a) 09/15/1994

Order Number: PB95-191 268 **Order Form: NTIS**

Application of Geophysics to Acid Mine Drainage Investigations; Volume II: Site Investigations

Describes file investigations undertaken to evaluate the utility of surface geophysical techniques in detecting and monitoring groundwater pollution from mine waste in the western United States. Discusses results of investigations at the Spenceville copper mine, Leviathan sulfur mine, Iron Mountain copper mine, and Walker copper mine. Includes maps, charts, and tables.
(EPA530-R-95-013b) 09/15/1994

Order Number: PB95-191 276 Order Form: NTIS

Application of the Phase IV Land Disposal Restrictions to Contaminated Media: Costs, Cost Savings, and Economic Impacts

Analyzes the impact of the Phase IV rulemaking on the treatment of contaminated media. Covers new soil treatment standards for soil contaminated with hazardous waste, new LDR treatment standards for media contaminated with newly identified mineral processing wastes, and new LDR treatment standards for media that exhibit the toxicity characteristic for metal constituents. Presents the methodology and the major limitations and describes results. Analyzes the economic impacts of the projected incremental costs of the rulemaking on small entities. Appendices describe the soil and sediment database used in this analysis and present detailed (e.g., industry-by-industry) results of the economic impact analysis.
(EPA 530-R-99-026) 04/03/1998

Order Number: PB99-156 010 Order Form: NTIS

Application of the Phase IV Land Disposal Restrictions to Newly Identified Mineral Processing Wastes; Regulatory Impact Analysis

Estimates the costs, economic impacts, and benefits of the Phase IV LDR rule on newly identified mineral processing wastes. Addresses regulatory options. Defines the universe and estimates waste volumes. Provides methodology used to assess cost, economic impacts, and benefits of this rule. Appendices include analysis of options under alternative baselines, methodology for identifying hazardous waste streams, mineral processing waste stream status changes since December 1995, mineral processing waste treatment and disposal costs, development of costing functions, explanation of cost modeling calculations, mineral processing cost model sample calculation for the titanium and titanium dioxide sector, derivation of value of shipments and value added for mineral processing sectors, risk and benefits assessment for the storage of recycled materials, constituent concentration data for recycled materials, and data summaries for high-risk mineral processing facilities.
(EPA530-R-99-027) 4/15/1998

Order Number: PB99-156 028 Order Form: NTIS

Aprendiendo a través del Servicio: Educación Fuera de la Aula (Spanish Translation of Service-Learning: Education Beyond the Classroom)

Defina aprender a través del servicio como experiencia educativa que combine conocimiento académico con servicio y la reflexión personal. Anima servicio ambiental en áreas de los desechos sólidos y peligrosos; liga estas experiencias a los cambios del comportamiento positivos, tales como reciclaje y prevención inútil; y demuestra cómo las habilidades que los estudiantes adquieren pueden llevar a cabo una carrera ambiental. Contiene perfiles de los proyectos el servicio-aprender organizados por el nivel del grado en dos categorías: programas de la escuela y de la comunidad. Incluye el contacto para cada proyecto. Enumera las organizaciones nacionales que pueden coordinar o financiar los proyectos. *Su Vida, Su Mundo, Sus Opiniones: Todo Lo Que Haga Puede Hacer una Diferencia Kit.*

15/9/2001

Número de pedido: EPA530-K-02-001S
Formulario de pedido: OSW

Asbestos Waste Management Guidance: Generation, Transport, Disposal

Provides guidance on handling asbestos-containing waste materials during generation, transport, and final disposal. Waste handling practices presented include those necessary to meet current EPA and OSHA requirements and also additional recommendations reflecting practices needed to minimize exposure to asbestos.

05/15/1985

Order Number: EPA530-SW-85-007 **Order Form:** OSW

***Aspectos Sociales de la Ubicación de Instalaciones de Residuos Peligrosos de RCRA (Spanish Translation of Social Aspects of Siting Hazardous Waste Facilities)**

Convertido para las industrias y para las agencias de estatal que obran recíprocamente con las comunidades cuando se localizan las instalaciones que manejan los desechos peligrosos. Ofrece ejemplos para proteger la calidad de vida cuando se localizan estas instalaciones. Proporciona ejemplos de las experiencias y de los mecanismos creativos que se han desarrollado para trabajar con eficacia con las comunidades. Anima a negocios y a las agencias de estatal que traten preocupaciones de la comunidad temprano, de colaboración, y con la comprensión. Solamente disponible en el Internet en <www.epa.gov/epaoswer/general/espanol/sp-sitng.pdf>.

15/9/2003

Número de pedido: EPA530-K-00-005S
Formulario de pedido: OSW

Assessment of Hazardous Waste Mismanagement Damage Case Histories

Provides damage histories associated with land- and non-land-based hazardous waste disposal facilities. Estimates potential damages from hazardous waste mismanagement including events responsible for contamination or facility damage, chemicals commonly implicated, and remedial responses. Contains data collected from a survey of 929 active and inactive disposal sites.

(EPA530-SW-84-002)

04/15/1984

Order Number: PB84-212 356 **Order Form:** NTIS

Background Document for Analysis of the Land Disposal Restrictions—Phase IV: Underground Injection Data and Issues

Evaluates the impact of the Phase IV LDR rulemaking on underground injection of hazardous waste and the need for national capacity variances from the land disposal prohibitions. Presents legal background for the LDR program, toxicity characteristic metal wastes, mineral processing wastes, the Phase IV rulemaking, and the types of wastes covered by the Phase IV LDR rulemaking. Provides background on the underground injection control program and facilities affected by this rulemaking. Discusses LDR exemptions, Phase IV wastes prohibited from injection. Details the availability of on-site and off-site alternative treatment and injection capacity. Summarizes the major categories of injected waste affected by the Phase IV rule and the availability of alternative treatment and injection capacity for underground injection facilities subject to this rule.

(EPA530-R-99-025)

04/15/1998

Order Number: PB99-156 002 **Order Form:** NTIS

Background Document for Capacity Analysis for Land Disposal Restrictions: Newly Identified Petroleum Refining Wastes (Final Rule)

Presents the capacity analysis EPA conducted to support the final LDRs for newly listed petroleum refining wastes. Provides legal background, capacity analysis methodology, and a summary of the capacity analysis for the final petroleum refining wastes listing determination. Discusses commercial hazardous waste combustion capacity and other treatment system capacities. Examines required capacity for petroleum refining process wastes. Details the capacity analysis results. Appendices include telephone logs for calls to catalyst recyclers, commercial Subtitle C incinerators, and refineries that reported on-site incineration in BRS in 1995; physical and chemical properties of the newly identified petroleum refining process wastes; discussion of regulatory issues relating to LDR capacity analysis for K171 and K172; and case study data developed from Phase IV LDRs.

(EPA 530-R-99-031)

06/15/1998

Order Number: PB99-156 127 **Order Form:** NTIS

Background Document for Capacity Analysis for Land Disposal Restrictions Phase II—Universal Treatment Standards, and Treatment Standards for Organic Toxicity Characteristic Wastes and Other Newly Listed Wastes; Final

Presents the capacity analysis that EPA conducted to support the final LDR Phase II rule on Universal Treatment Standards and Treatment Standards for Organic Toxicity Characteristic Wastes and Newly Listed Wastes. Evaluates the need for national capacity variances from the land disposal prohibitions. Provides estimates of the quantities of wastes that will require alternative commercial treatment and recovery prior to land disposal as a result of the LDRs, and estimates alternative commercial treatment and recovery capacity available to manage wastes restricted from land disposal. Describes the methodology and data used to determine the available commercial treatment capacity, briefly summarizes the capacity analysis conducted for the rule, and highlights the national capacity variances that EPA is granting in the rule.

(EPA530-R-97-041)

08/15/1994

Order Number: PB97-177 521

Order Form: NTIS

Background Document for Capacity Analysis for Land Disposal Restrictions Phase III—Decharacterized Wastewaters, Carbamate Wastes, and Spent Potliners (Complete Set)

Presents the capacity analysis that EPA conducted to support the LDR Phase III: Decharacterized Wastewaters, Carbamate Wastes, and Spent Potliners. Provides data sources and methodology.

(EPA530-R-97-025)

02/15/1996

Order Number: PB97-176 879

Order Form: NTIS

Background Document for Capacity Analysis for Land Disposal Restrictions Phase III—Decharacterized Wastewaters, Carbamate Wastes, and Spent Potliners; Volume 1: Capacity Analysis and Methodology

Presents the capacity analysis that EPA conducted to support the LDR Phase III: Decharacterized Wastewaters, Carbamate Wastes, and Spent Potliners. Evaluates the need for national capacity variances from the land disposal prohibitions. Provides estimates of the quantities of wastes that will require alternative commercial treatment prior to land disposal as a result of the LDRs, and estimates the alternative commercial treatment capacity available to manage wastes restricted from land disposal. Analyzes ignitable, corrosive, reactive, and toxic wastes that are managed in CWA or CWA-equivalent systems. Provides data sources and methodology. Addresses capacity analysis for newly listed wastes, surface-disposed mixed radioactive waste, and nonsulfide and non-cyanide reactive wastes not managed in CWA or CWA-equivalent systems.

(EPA530-R-97-025a)

02/15/1996

Order Number: PB97-176 887

Order Form: NTIS

Background Document for Capacity Analysis for Land Disposal Restrictions Phase III—Decharacterized Wastewaters, Carbamate Wastes, and Spent Potliners; Volume 2: Appendix A (Part 1)

Provides detailed analyses of the required treatment capacity for industries generating ignitable, corrosive, reactive, and/or organic toxicity characteristic wastes managed in CWA or CWA-equivalent systems.

(EPA530-R-97-025b)

02/15/1996

Order Number: PB97-176 895

Order Form: NTIS

Background Document for Capacity Analysis for Land Disposal Restrictions Phase III—Decharacterized Wastewaters, Carbamate Wastes, and Spent Potliners; Volume 3: Appendices A (Part 2)—F

Contains the conclusion of Appendix A described above. Includes appendices summarizing the Waste Treatment Industry Questionnaire and 1991 BRS data on wastewater treatment, telephone logs for the commercial combustion capacity analysis, additional data supporting the K088 spent potliners capacity analysis, waste water and non-wastewater quantities of D003 (reactive) wastes (based on 1993 BRS data), and a case study report for capacity analysis of LDR Phase III decharacterized waste water. (EPA530-R-97-025c) 02/15/1996

Order Number: PB97-176 903 Order Form: NTIS

Background Document for Capacity Analysis for Newly Listed Wastes and Hazardous Debris to Support 40 CFR 268 Land Disposal Restrictions; Final (Complete Set)

Presents the capacity analysis EPA conducted to support the final rule on the LDR on Newly Listed Wastes and Hazardous Debris. Evaluates the need for national capacity variances from land disposal prohibitions. Provides estimates of the quantities of wastes that will require alternative commercial treatment and recovery prior to land disposal as a result of LDRs and estimates alternative commercial treatment and recovery capacity available to manage wastes restricted from land disposal. Describes the methodology and data used to determine available commercial capacity. (EPA530-R-97-037) 06/15/1992

Order Number: PB97-177 414 Order Form: NTIS

Background Document for Capacity Analysis for Newly Listed Wastes and Hazardous Debris to Support 40 CFR 268 Land Disposal Restrictions; Final; Volume 1: Capacity Analysis Methodology and Results; Appendices A and B

Presents the capacity analysis EPA conducted to support the final rule on the LDRs on Newly Listed Wastes and Hazardous Debris. Evaluates the need for national capacity variances from land disposal prohibitions. Provides estimates of the quantities of wastes that will require alternative commercial treatment and recovery prior to land disposal as a result of LDRs and estimates alternative commercial treatment and recovery capacity available to manage wastes restricted from land disposal. Describes the methodology and data used to determine available commercial capacity. Provides phone logs of contacts with facilities for the capacity analysis of other newly listed wastes in Appendix A. Addresses some issues and concerns related to the analysis of hazardous debris. (EPA530-R-97-037a) 06/15/1992

Order Number: PB97-177 422 Order Form: NTIS

Background Document for Capacity Analysis for Newly Listed Wastes and Hazardous Debris to Support 40 CFR 268 Land Disposal Restrictions; Final; Volume 2: Appendix C—Background Data for Incineration and Cement Kiln Capacity (Part 1)

Provides background data on the determination of available incineration and cement kiln capacity. Contains surveys completed by firms that are connected with fuels substitution, own cement kilns, and act as fuel blenders, regarding the capacity to burn hazardous wastes under regulation since November 1984. (EPA530-R-97-037b) 06/15/1992

Order Number: PB97-177 430 Order Form: NTIS

Background Document for Capacity Analysis for Newly Listed Wastes and Hazardous Debris to Support 40 CFR 268 Land Disposal Restrictions; Final; Volume 3: Appendix C—Background Data for Incineration and Cement Kiln Capacity (Part 2)

Provides background data on the determination of available incineration and cement kiln capacity. Contains surveys completed by firms that are connected with fuels substitution, own cement kilns, and act as fuel blenders, regarding the capacity to burn hazardous wastes under regulation since November 1984.
(EPA530-R-97-037c) 06/15/1992

Order Number: PB97-177 448 **Order Form: NTIS**

Background Document for Capacity Analysis for Newly Listed Wastes and Hazardous Debris to Support 40 CFR 268 Land Disposal Restrictions; Final; Volume 4: Appendix C—Background Data for Incineration and Cement Kiln Capacity (Part 3)

Contains voluntary capacity update survey responses from companies that own commercial hazardous waste incinerator facilities. Supplies information regarding their present and future capacity to burn liquids, pumpable sludges, nonpumpable sludges, containerized solids, and bulk solids. Includes engineering specifications of incinerator units at the facility, debris and soil acceptance criteria, and waste code acceptability. Provides telephone logs of conversations clarifying capacity information.
(EPA530-R-97-037d) 06/15/1992

Order Number: PB97-177 455 **Order Form: NTIS**

Background Document for Capacity Analysis for Newly Listed Wastes and Hazardous Debris to Support 40 CFR 268 Land Disposal Restrictions; Final; Volume 5: Appendix D—Category 1 Facilities for the F037 and F038 Capacity Analysis

Contains information on petroleum refineries used for estimating required F037 and F038 capacity. Includes an interview guide, information obtained from refinery visits, and information submitted by Category 1 facilities.
(EPA530-R-97-037e) 06/15/1992

Order Number: PB97-177 463 **Order Form: NTIS**

Background Document for Capacity Analysis for Newly Listed Wastes and Hazardous Debris to Support 40 CFR 268 Land Disposal Restrictions; Final; Volume 6: Appendix E—Category 2 Facilities for the F037 and F038 Capacity Analysis

Contains information on petroleum refineries used for estimating required F037 and F038 capacity. Includes the key assumptions and equations used to estimate F037 and F038 generation for Category 2 facilities and estimates of F037 and F038 waste generation for Category 2 facilities.
(EPA530-R-97-037f) 06/15/1992

Order Number: PB97-177 471 **Order Form: NTIS**

Background Document for Capacity Analysis for Newly Listed Wastes and Hazardous Debris to Support 40 CFR 268 Land Disposal Restrictions; Final; Volume 7: Appendix F—Category 3 Facilities for the F037 and F038 Capacity Analysis

Contains information on petroleum refineries used for estimating required F037 and F038 capacity. Includes the method used to estimate F037 and F038 waste generation for Category 3 facilities and estimates of F037 and F038 waste generation for Category 3 facilities.
(EPA530-R-97-037g) 06/15/1992

Order Number: PB97-177 489 **Order Form: NTIS**

Background Document for Capacity Analysis to Support 40 CFR Part 268 Land Disposal Restrictions for Ignitable and Corrosive Wastes Whose Treatment Standards Were Vacated (Interim Final Rule)

Provides a general background on the interim final rule promulgated in response to the September 1992 court decision vacating treatment standards for ignitable and corrosive wastes. Presents the key data sources used in the analysis, discusses the major data limitations, presents the analytical methodology, contains the required capacity estimates, addresses available capacity for the wastes covered by the rule, and includes the variance determinations. Appendices include capacity comments summaries and response and estimation of affected Class V injection wells. (EPA530-R-97-040) 05/06/1993

Order Number: PB97-177 513

Order Form: NTIS

Background Document for First Third Wastes to Support 40 CFR Part 268 Land Disposal Restrictions; Final; Addendum: Capacity Analysis for K061 Wastes

Updates the capacity analysis for K061 wastes based on the new treatment standards established for high zinc K061 and on new information on high zinc K061 generation, management, and treatment. Addresses the new treatment standards established under the LDRs for high zinc K061. Discusses current management practices and the available high temperature metals recovery treatment capacity. (EPA530-R-97-038) 08/15/1991

Order Number: PB97-177 497

Order Form: NTIS

Background Document for First Third Wastes to Support 40 CFR 268 Land Disposal Restrictions; Final Rule: First Third Waste Volumes, Characteristics, and Required and Availability Treatment Capacity

Supports final LDR rule for First Third wastes. Estimates quantities of wastes that will require alternative treatment or recovery prior to land disposal under treatment standards set by the rule. Estimates availability of alternative treatment capacity to accommodate diverted wastes. Reassesses capacity analyses developed for wastes covered by previous rules. (EPA530-SW-88-049) 08/15/1988

Order Number: PB88-246 145

Order Form: NTIS

Background Document for Land Disposal Restrictions—Wood Preserving Wastes (Final Rule): Capacity Analysis and Response to Capacity-Related Comments

Presents the capacity analysis that EPA conducted to support the Phase IV LDR rulemaking on newly listed wastes from wood preserving. Contains the result of capacity analyses conducted by EPA to evaluate the need for national capacity variances from the land disposal prohibitions. Provides estimates of the quantities of wastes that will require alternative commercial treatment prior to land disposal as a result of the LDRs, and estimates alternative commercial treatment capacity available to manage wastes restricted from land disposal. Discusses the legal background of the rule. Includes comment response methodologies. Addresses commercial combustion capacity and capacity analysis for newly listed wood preserving wastes. Responds to comments. Appendices include data on available combustion capacity, wastewater capacity, stabilization, and vitrification; commenter data; communication logs; BRS report; and methodology for estimating quantity of soil and debris contaminated with wood preserving wastes. (EPA530-R-97-028) 04/15/1997

Order Number: PB97-176 937

Order Form: NTIS

Background Document for Final Comprehensive Procurement Guideline III and Final Recovered Materials Advisory Notice III

Explains EPA's overall objectives, the process for designating procurement items, and the methodology used in recommending recovered materials content levels for items designated in the proposed CPG III. Lists the recommended procurement practices for designated items. Includes tables, list of acronyms, and supporting information. 09/15/1999

Order Number: EPA530-R-00-002

Order Form: OSW

***Background Document for Final Comprehensive Procurement Guideline IV and Final Recovered Materials Advisory Notice IV**

Explains EPA's overall objectives, the process for designating procurement items, and the methodology used in recommending recovered materials content levels for items designated in the proposed CPG IV. Lists the recommended procurement practices for designated items. Includes tables, list of acronyms, and supporting information. Includes response to public comments received. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/procure/pdf/cpg4bd04.pdf>.

04/15/2004

Order Number: EPA530-R-04-033 Order Form: OSW

***Background Document for Final Comprehensive Procurement Guideline IV and Final Recovered Materials Advisory Notice IV; Appendices**

Contains the appendices to the background document: materials in solid waste, discussion of RCRA Section 6002 requirements, Executive Order 13101, and additional policies and procedures. Only available on the Internet at <www.epa.gov/epaoswer/nonhw/procure/pdf/cpg4app04.pdf>.

04/15/2004

Order Number: EPA530-R-04-033a Order Form: OSW

Background Document for Second Third Wastes to Support 40 CFR 268 Land Disposal Restrictions; Final Rule: Second Third Waste Volumes, Characteristics, and Required and Availability Treatment Capacity; Volume I

Supports the final rule for Second Third wastes scheduled for restriction from land disposal. Estimates quantities of wastes requiring alternative treatment and recovery prior to land disposal. Evaluates the availability of alternative treatment and recovery capacity necessary to manage wastes diverted from land disposal, taking into account demands already placed on capacity by previous LDRs. (EPA530-SW-89-057A) 06/08/1989

Order Number: PB89-220 552 Order Form: NTIS

Background Document for Second Third Wastes to Support 40 CFR 268 Land Disposal Restrictions; Final Rule: Second Third Waste Volumes, Characteristics, and Required and Availability Treatment Capacity; Volume II

Substantiates findings of Volume I with data, surveys, and tables.

(EPA530-SW-89-057B) 06/08/1989

Order Number: PB89-220 560 Order Form: NTIS

Background Document for Solvents to Support 40 CFR Part 268 Land Disposal Restrictions; Volume I

Supports a technology-based treatment standard to restrict solvent wastes from land disposal, abandoning the proposed screening level and liner protection threshold approach. Outlines treatment standards based on performance using BDAT. Briefly discusses technologies with emphasis on solvent treatment and recycling applicability. Provides F001-F005 for physical and chemical solvent properties and toxicity of listed solvents. (EPA530-SW-86-060) 11/15/1986

Order Number: PB87-146 361/AS Order Form: NTIS

Background Document for Solvents to Support 40 CFR Part 268 Land Disposal Restrictions; Volume II

Supports a technology-based treatment standard to restrict solvent wastes from land disposal, abandoning the proposed screening level and liner protection threshold approach. Outlines treatment standards based on performance that can be achieved using BDAT. Briefly discusses technologies with emphasis on solvent treatment and recycling applicability. Provides F001 to F005 solvent physical and chemical properties and toxicity of listed solvents. (EPA530-SW-86-061) 11/15/1986

Order Number: PB87-146 379 Order Form: NTIS

Background Document for Solvents to Support 40 CFR Part 268 Land Disposal Restrictions: Solvent Waste Volumes and Characteristics, Required Treatment and Recycling Capacity, and Available Treatment and Recycling

Discusses volumes and characteristics of hazardous solvent wastes affected by LDRs. Evaluates required treatment and recycling capacity and identifies the unused capacity of alternative treatment and recycling technologies for solvent wastes.

(EPA530-SW-88-013) 11/15/1986

Order Number: PB87-163 481/AS Order Form: NTIS

Background Document for the Conditionally Exempt Small Quantity Generator (CESQG) Rule

Presents information in support of EPA's proposed rule-making for nonmunicipal solid waste disposal facilities that receive CESQG hazardous wastes. Provides background on the current solid waste controls under RCRA, and summarizes the proposed regulation. Describes CESQG waste, industrial facilities that may receive CESQG waste, and existing state programs related to CESQG waste.

(EPA530-R-95-021) 05/15/1995

Order Number: PB95-208 930 Order Form: NTIS

Background Document for the Groundwater Screening Procedure to Support 40 CFR 268 Land Disposal Restrictions

Presents groundwater screening component of EPA's approach to evaluate the need to ban or further restrict hazardous wastes from land disposal. Establishes acceptable concentrations for specific chemical constituents in waste extracts. Procedures involve application of analytic solute transport equation for hydrogeologic parameters such as ground-water velocity, soil porosity, and net infiltration.

(EPA530-SW-86-047) 01/15/1986

Order Number: PB87-101 606 Order Form: NTIS

Background Document for Third Third Wastes to Support 40 CFR Part 268 Land Disposal Restrictions; Final Rule: Third Third Waste Volumes, Characteristics, and Required and Available Treatment Capacity (Complete Set)

Supports the final rule under Section 3004(m) of RCRA. Presented in four volumes.

(EPA530-SW-90-062) 05/08/1990

Order Number: PB90-234 675 Order Form: NTIS

Background Document for Third Third Wastes to Support 40 CFR Part 268 Land Disposal Restrictions; Final Rule: Third Third Waste Volumes, Characteristics, and Required and Available Treatment Capacity; Volume I: Executive Summary, Chapter 1 and Chapter 2

Supports the final rule for Section 3004(m) of RCRA. Presents estimates of waste requiring alternative treatment and recovery before land disposal. Estimates wastes restricted from land disposal.

(EPA530-SW-90-062A) 05/08/1990

Order Number: PB90-234 683 Order Form: NTIS

Background Document for Third Third Wastes to Support 40 CFR Part 268 Land Disposal Restrictions; Final Rule: Third Third Waste Volumes, Characteristics, and Required and Available Treatment Capacity; Volume II: Chapter 3

Presents data on technology on a waste code-specific basis for wastes in final Third Third rule. The capacity analyses referenced are based primarily on data from TSDR survey.

(EPA530-SW-90-062B) 05/08/1990

Order Number: PB90-234 691 Order Form: NTIS

Background Document for Third Third Wastes to Support 40 CFR Part 268 Land Disposal Restrictions; Final Rule: Third Third Waste Volumes, Characteristics, and Required and Available Treatment Capacity; Volume III: Chapter 4 and Appendix A—Appendix I

Presents a detailed discussion of methodology and rationale for capacity analyses supporting final rule. Gives the analytical methodology used to determine demand for alternative treatment capacity required for wastes affected by the Third Third final rule.
(EPA530-SW-90-062C) 05/08/1990

Order Number: PB90-234 709 *Order Form: NTIS*

Background Document for Third Third Wastes to Support 40 CFR Part 268 Land Disposal Restrictions; Final Rule: Third Third Waste Volumes, Characteristics, and Required and Available Treatment Capacity; Volume IV: Appendix J - Appendix M

Includes Appendix J, Analysis of Commercial Alkaline Chlorination/Chemical Precipitation Capacity; Appendix K, Analysis of Commercial Sludge/Solid Combustion Capacity; Appendix L, Miscellaneous Phone Logs; and Appendix M, Analysis of Large Volume Underground Injected P and U Coded Wastes.
(EPA530-SW-90-062D) 05/08/1990

Order Number: PB90-234 717 *Order Form: NTIS*

Background Document on Bottom Liner Performance in Double-Lined Landfills and Surface Impoundments

Compares the performance of compacted soil and composite bottom liners. Also compares the capabilities of these liners to satisfy the statutory goals of RCRA, which are to prevent migration of hazardous constituents from hazardous waste management units, and to detect leakage through top liner at the earliest practicable time. Quantifies performance differences.
(EPA530-SW-87-013) 04/15/1987

Order Number: PB87-182 291 *Order Form: NTIS*

Background Document on Proposed Liner and Leak Detection Rule

Provides technical rationale and support for the three main portions of the proposed Liner/Leak Detection Rule: leak detection system requirements; extension of double-liner system requirements to waste piles, significant unused portions, and certain other units; and construction quality assurance program requirements.
(EPA530-SW-87-015) 05/15/1987

Order Number: PB87-191 383 *Order Form: NTIS*

Background Document on the Development and Use of Reference Doses; Part I: Data Needs and Apportionment; Part II: Considerations Related to the Development of Protocols for Toxicity Studies

Supports two health-protection criteria used to limit the extent of air or water contamination by individual chemicals. Assesses available test methodologies to identify those suitable for developing data from which reference doses can be established. Decides when and how to apportion reference doses and risk-specific doses among several possible human exposure media. Identifies minimally acceptable protocol for conducting toxicity testing.
(EPA530-SW-86-048) 12/20/1985

Order Number: PB87-107 173/AS *Order Form: NTIS*

Background Documentation for Minimum Content Standards

Contains the proposed set of recommended minimum content standards as guidelines for federal procurement of paper and paper products containing recovered material. Content standards are displayed in summary form. Five categories are included: newsprint, bleached printing and writing papers, tissue products, unbleached packaging, and recycled paperboard.
(EPA530-SW-88-046) 03/06/1987

Order Number: PB87-107 173/AS *Order Form: NTIS*

Background Documents for the Cost and Economic Impact Analysis of Listing Four Petroleum Refining Wastes as Hazardous Wastes Under RCRA Subtitle C

Provides the cost and economic impact analysis for the 1995 proposal to list hazardous wastes from the petroleum refining industry. Also contains a memorandum detailing other benefits from recovery of oil in coke processing units, a memorandum examining the impacts of the Small Business Regulatory Enforcement Fairness Act of 1996 and unfunded mandates on the proposed petroleum refining hazardous waste listing, the cost impact analysis of the definition of solid waste headworks exemption for the proposed listings of three petroleum refining Industry wastes, and the cost impact analysis of the coking exemption on crude oil tank sludge and clarified slurry oil sludge compliance costs from listing as a RCRA hazardous waste.

(EPA 530-R-99-032) 01/10/1998

Order Number: PB99-156 135 **Order Form: NTIS**

Background Information Document for the Development of Regulations to Control the Burning of Hazardous Wastes in Boilers and Industrial Furnaces (Complete Set)

Presents the results of research that develops and evaluates alternatives for regulating the burning of hazardous waste in BIFs. Two volumes.

(EPA530-SW-87-014) 01/15/1987

Order Number: PB87-173 811/AS **Order Form: NTIS**

Background Information Document for the Development of Regulations to Control the Burning of Hazardous Wastes in Boilers and Industrial Furnaces; Volume I: Industrial Boilers

Presents alternatives for regulating the burning of hazardous waste in BIFs. Contains information on industrial boilers related to hazardous waste burning.

(EPA530-SW-87-014A) 01/15/1987

Order Number: PB87-173 829 **Order Form: NTIS**

Background Information Document for the Development of Regulations to Control the Burning of Hazardous Wastes in Boilers and Industrial Furnaces; Volume II: Industrial Furnaces

Presents alternatives for regulating the burning of hazardous waste in BIFs. Addresses the practice of burning hazardous waste in industrial furnaces.

(EPA530-SW-87-014B) 01/15/1987

Order Number: PB87-173 837 **Order Form: NTIS**

Background Paper: Exclusion to the Definition of Solid Waste: Excluded Scrap Metal and Shredded Circuit Boards Being Recycled

Describes the amendment to the definition of solid waste excluding scrap metal and containerized shredded circuit boards that are being recycled from regulation under RCRA. Defines processed scrap metal. Addresses comments received on the proposed LDR Phase IV supplemental rulemaking.

(EPA530-R-97-029) 04/15/1997

Order Number: PB97-176 945 **Order Form: NTIS**

La Basura y el Cambio del Clima: Los Protectores del Planeta Descubren las Razones Escondidas para Reducir, Reutilizar, y Reciclar (Spanish Translation of *Trash and Climate Change: Planet Protectors Discover the Hidden Reasons to Reduce, Reuse, and Recycle*)

Un libro de actividades que incluye ejercicios como completando espacios en blanco, equiparando, palabras mixtas, habilidades en matemáticas, rompe cabezas, y un juego que los muchachos componen. Todos los juegos usan terminos principales del manejo de desperdicios para enseñar a los muchachos sobre reduciendo, reusando, y reciclando desperdicios. Involucra a los muchachos en juegos educativos y divertidos en que le enseñan como pueden hacer una diferencia.

15/01/2002

Número de pedido: EPA530-K-00-001S
Formulario de pedido: OSW

Batch-Type Procedures for Estimating Soil Adsorption of Chemicals; Technical Resource Document

Describes laboratory batch procedures for assessing the capacity of soils and soil components of liners for waste management facilities to attenuate chemical constituents from solution. Documents procedures for organic and inorganic constituents, as well as scientific basis and rationale. Examples demonstrate application of procedures and use of data in designing soil liners for pollutant retention.

(EPA530-SW-87-006F) 04/15/1992

Order Number: PB92-188 515 Order Form: NTIS

Be Waste Aware – Waste Reduction Resources and Tools for Students

Provides resources for learning more about municipal solid waste, also known as trash or garbage. This fact sheet, designed for students, is part of the *Your Life, Your World, Your Choices: You Can Make a Difference Kit*.

11/15/2003

Order Number: EPA530-F-03-056 Order Form: OSW

Best Demonstrated Available Technology (BDAT) Background Document (Addendum) for All Nonwastewater Forms of K061 and Alternative BDAT Treatment Standards for F006 and K062 Nonwastewaters (Final)

Presents EPA's rationale and technical support for removing the existing subcategories for K061 nonwastewaters (i.e., low zinc and high zinc) and establishing one set of standards that will apply to all nonwastewater forms of K061. Explains EPA's decision to establish alternative treatment standards, based on a transfer of high temperature metals recovery treatment performance for F006 and K062 nonwastewaters.

(EPA530-R-95-028) 07/15/1992

Order Number: PB95-230 884 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for Barium Wastes D005 and P013 (Final)

Presents EPA's technical support and rationale for developing regulatory standards for barium-containing wastes. Presents waste-specific information for D005 wastes: industries affected, treatment technologies, available performance data, analyses of performance data to determine BDAT, and determination of proposed treatment standards for barium. Discusses P013, barium cyanide, and details the development of treatment standard for wastes.

(EPA530-SW-90-059T) 05/08/1990

Order Number: PB90-234 204 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for Characteristic Ignitable Wastes (D001), Characteristic Corrosive Wastes (D002), Characteristic Reactive Wastes (D003), and P and U Wastes Containing Reactive Listing Constituents (Final)

Presents EPA's technical support for selecting and developing treatment standards for D001, D002, D003, and P and U wastes containing reactive constituents that are listed under RCRA. Describes industries affected by LDRs for specific characteristic wastes. Discusses applicable technologies used to treat waste.

(EPA530-SW-90-059B) 05/08/1990

Order Number: PB90-234 022 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for Chlorinated Toluene Wastes: K149, K150, and K151 (Final)

Provides EPA's rationale and technical support for developing BDAT treatment standards for wastes generated during the production of chlorinated toluenes. Includes waste characterization data. Discusses treatment technologies designated as applicable and demonstrated for these wastes. Examines potential reuse and recycling, source reduction, pollution prevention, and waste minimization alternatives for the wastes.

(EPA530-R-95-034) 07/15/1994

Order Number: PB95-230 942 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for Chromium Wastes D007 and U032 (Final)

Presents EPA's technical support for regulating D007 and U032 wastes. Describes industries affected by D007 waste regulation, explains processes generating these wastes, and presents available waste characterization data. Contains performance data for treating wastes, including analyses of performance data to determine BDAT. Discusses associated chromium-containing U-code waste and details the development of treatment standards.
(EPA530-SW-90-059V) 05/08/1990

Order Number: PB90-234 220 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for Coking Wastes: K141-145, K147, and K148 (Final)

Provides EPA's rationale and technical support for developing BDAT treatment standards for wastes generated during the production, recovery, and refining of coke by products and tar produced from coal (i.e., coking wastes). Includes waste characterization data. Discusses treatment technologies designated as applicable and demonstrated for these wastes. Examines potential reuse and recycling, source reduction, pollution prevention, and waste minimization alternatives for the wastes.
(EPA530-R-95-026) 07/15/1994

Order Number: PB95-230 868 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for Cyanide Wastes (F006, F007-F012, F019, and Various P and U Codes) (Final)

Provides EPA's technical support for selecting and developing proposed treatment standards for constituents to be regulated for electroplating and metal heat treating wastes. Sections 2 through 7 present information for F-code wastes. Section 8 discusses associate inorganic cyanide P-code wastes and details the development of proposed treatment standards for wastes.
(EPA530-SW-89-048K) 06/15/1989

Order Number: PB89-221 485 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for Cyanide Wastes; Addendum for F019 (Final)

Provides EPA's rationale and technical support for selecting constituents to be regulated in F019 nonwastewaters and wastewaters and for developing proposed BDAT treatment standards for constituents. Discusses the generation and characterization of waste code F019.
(EPA530-SW-90-059N) 05/08/1990

Order Number: PB90-234 147 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for D006 Cadmium Wastes (Final)

Provides EPA's technical support for regulating D006 cadmium wastes. Presents the number and location of facilities believed to be affected by regulation. Lists technologies used to treat waste.
(EPA530-SW-90-059U) 05/08/1990

Order Number: PB90-234 212 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for D008 and P and U Lead Wastes (Final)

Provides EPA's technical support for regulating D008 and P and U lead wastes. Describes the industries and processes that might generate wastes including D008 wastes, which exhibit characteristics of extraction procedure toxicity for lead. Outlines several applicable treatment technologies.
(EPA530-SW-90-059W) 05/08/1990

Order Number: PB90-234 238 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for Distillation Bottoms From the Production of Aniline, K083 (Final)

Provides EPA's rationale and technical support for developing treatment standards for distillation bottoms from production of aniline (K083). Presents waste-specific information on the number and locations of facilities that generate waste, use technologies to treat waste, and might be affected by LDRs.
(EPA530-SW-90-060J) 05/08/1990

Order Number: PB90-234 378 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for Distillation Bottoms from the Production of Nitrobenzene by the Nitration of Benzene, K025 (Final)

Provides EPA's rationale and technical support for developing treatment standards for distillation bottoms from production of nitrobenzene by nitration of benzene (K025). Supplies waste characterization data that serve as a basis for determining whether variance from treatment standard might be warranted from a particular type of K025.
(EPA530-SW-90-060K) 05/08/1990

Order Number: PB90-234 386 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for F001-F005 Spent Solvents; Revisions (Final)

Provides technical support for revisions to the BDAT treatment standards for the original listed solvent constituents of F001-F005. Examines EPA's rationale and technical support for revising the F001-F005 treatment standards promulgated on November 7, 1986, and August 17, 1988. Presents EPA's approach to and technical support for the treatment standards for nonwastewater and wastewater forms of F001-F005 and the revised treatment standards.
(EPA530-R-95-027) 06/30/1992

Order Number: PB95-230 876 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for F001-F005 Spent Solvents; Volume 1

Presents EPA's rationale for revising treatment standards for methylene chloride in F001 to F005 waste waters from the pharmaceuticals manufacturing industry. See also EPA530-SW-88-031R, Amendment to BDAT document for F001-F005 spent solvents.
(EPA530-SW-86-056A) 11/15/1986

Order Number: PB87-120 267/AS Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for F001-F005 Spent Solvents; Volume 2

Presents EPA's rationale for revising treatment standards for methylene chloride in F001 to F005 waste waters from the pharmaceuticals manufacturing industry. See also EPA530-SW-88-031R, Amendment to BDAT document for F001-F005 spent solvents.
(EPA530-SW-86-056B) 11/15/1986

Order Number: PB87-120 275/AS Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for F001-F005 Spent Solvents; Volume 3

Presents EPA's rationale for revising treatment standards for methylene chloride in F001 to F005 waste waters from the pharmaceuticals manufacturing industry. See also EPA530-SW-88-031R, Amendment to BDAT document for F001 to F005 spent solvents.
(EPA530-SW-86-056C) 11/15/1986

Order Number: PB87-120 283 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for F001-F005 Spent Solvents; Amendment to Volumes 1 and 2 (Final)

Presents new data received by EPA and provides EPA's rationale for revising treatment standards for methylene chloride in F001 to F005 waste waters from pharmaceutical manufacturing industries. Revised EPA treatment standard for methylene chloride is 0.44 ppm versus the previous 12.7 ppm.
(EPA530-SW-88-031R) 08/15/1988

Order Number: PB89-142 525 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for F001-F005 Spent Solvents (Complete Set)

Presents EPA's rationale for revising treatment standards for methylene chloride in F001-F005 waste waters from the pharmaceuticals manufacturing industry. See also EPA530-SW-88-031R, Amendment to BDAT document for F001 to F005 spent solvents. Does not include revisions or amendment volumes.
(EPA530-SW-86-056) 11/15/1986

Order Number: PB87-120 259 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for F002 (1,1,2-Trichloroethane) and F005 (Benzene, 2-Ethoxyethanol, and 2-Nitropropane); Amendment (Final)

Presents data and rationale for the development of treatment standards for F002 (1,1,2-Trichloroethane) and F005 (Benzene, 2-Ethoxyethanol, and 2-Nitropropane).
(EPA530-SW-90-059P) 05/08/1990

Order Number: PB90-234 162 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for F006 (Final)

Gives EPA's rationale and technical support for selecting constituents to be regulated in F006 waste and for developing treatment standards for regulated constituents. Provides waste characterization and treatment information to serve in determining whether variances might be warranted.
(EPA530-SW-88-031L) 08/08/1988

Order Number: PB89-142 467 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for F006; Addendum (Final)

Provides EPA's rationale and technical support for developing treatment standards for F006 waste waters. Discusses F006 wastes, their generation, and industries affected by LDRs.
(EPA530-SW-90-059M) 05/08/1990

Order Number: PB90-234 139 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for Halogenated Pesticide and Chlorobenzene Wastes (K032-K034, K041, K042, K085, K097, K098, K105, and D012- D017) (Final)

Provides EPA's rationale and technical support for developing treatment standards for halogenated pesticide and chlorobenzene wastes. Describes processes generating wastes and waste characterization data.
(EPA530-SW-90-060P) 05/08/1990

Order Number: PB90-234 436 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for Inorganic Pigment Wastes, K002-K008 (Final)

Provides EPA's rationale and technical support for developing treatment standards for inorganic pigment wastes. Gives waste-specific information for K002 to K008 wastes, specifying number and location of facilities affected by LDRs. Discusses technologies used to treat waste.
(EPA530-SW-90-059Y) 05/08/1990

Order Number: PB90-234 253 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for K001 (Final)

Provides EPA's rationale and technical support for selecting and developing nonwastewater forms for K001 as identified in 40 CFR 261.32. Presents waste-specific information, treatment technologies, and performance data. Explains EPA's BDAT determination.
(EPA530-SW-88-031O) 08/15/1988

Order Number: PB89-142 491 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for K001 (Addendum) and U051 (Creosote) (Final)

Provides the Agency rationale and technical support for revisions to numerical treatment standards for K001 wastes. Presents treatment standards for U051 (creosote). Addendum to supporting BDAT background document for K001 waste waters and nonwastewaters by providing corrections to original K001 treatment standards and performance data.
(EPA530-SW-90-059C) 05/08/1990

Order Number: PB90-234 030 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for K009 and K010 (Final)

Gives EPA's technical support for selecting and developing treatment standards only for chloroform for K009-K010 wastes. Sections 2 through 7 present waste-specific information, applicable and demonstrated technologies, available performance data, EPA determination of BDAT, selection of regulated constituent, and determination of treatment standards.

(EPA530-SW-89-048I) 06/15/1989

Order Number: PB89-221 469 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for K011, K013, and K014 (Final)

Presents EPA's technical support for selecting and developing treatment standards for constituents regulated in acrylonitrile nonwastewaters. Contains information relevant to acrylonitrile waste waters. Presents waste-specific information, waste treatment technologies, available performance data, EPA determination of BDAT, selection of constituents to be regulated, and treatment standards.

(EPA530-SW-89-048J) 06/15/1989

Order Number: PB89-221 477 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for K011, K013, and K014; Addendum for Acrylonitrile Wastes (Final)

Provides EPA's rationale and technical support for developing treatment standards for K011, K013, and K014. Also provides the rationale for technologies evaluated in the determination of BDAT for K011/K013/K014 waste waters. Agency regulates five BDATs as are regulated in nonwastewaters: acetonitrile, acrylonitrile, acrylamide, benzene, and cyanide. Standards are based on the treatment performance of wet air oxidation. Table 1-1 presents treatment standards for K011/K013/K014 waste waters.

(EPA530-SW-90-059O) 05/08/1990

Order Number: PB90-234 154 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for K015 (Final)

Provides EPA's rationale and technical support for selecting constituents to be regulated in K015 waste. Also provides rationale and support for developing treatment standards for regulated constituents. Provides waste characterization data to serve as the basis for determining whether variances are warranted.

(EPA530-SW-88-031A) 08/08/1988

Order Number: PB89-142 350 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for K015; Addendum (Final)

Provides EPA's rationale and technical support for selecting constituents to be regulated for K015 nonwastewaters, and for developing BDAT treatment standards for regulated constituents. Addendum to supporting document for K015 dated August 1988, which contains most recent information regarding untreated K015 waste and K015 wastewater standards.

(EPA530-SW-90-059D) 05/08/1990

Order Number: PB90-234 048 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for K016, K018, K019, K020, and K030 (Final)

Provides EPA's rationale and technical support for selecting constituents to be regulated for K016, K018 through K020, and K030 wastes. Also provides support for developing treatment standards for regulated wastes' constituents. Gives waste characterization information to serve in determining whether variance is warranted for particular wastes.

(EPA530-SW-88-031B) 08/15/1988

Order Number: PB89-142 368 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for K021 (Final)

Provides EPA's technical support and rationale for selecting and developing treatment standards for constituents to be regulated for K021 waste (aqueous-spent antimony catalyst waste from fluoromethanes production).

Discusses technologies used to treat waste and treatment standards.

(EPA530-SW-90-059F)

05/08/1990

Order Number: PB90-234 063

Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for K022 (Non-CBI Version) (Final)

Provides EPA's rationale and technical support for selecting and developing treatment standards for nonwastewater forms of K022 as identified in 40 CFR 261.32.

Presents waste-specific information, the technologies used to treat wastes, and performance data. Explains EPA's BDAT determination.

(EPA530-SW-88-031Q)

08/15/1988

Order Number: PB89-142 517

Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for K022; Amendment (Final)

Presents EPA's rationale and technical support for selecting constituents for regulation in wastewater forms of K022. Discusses the technologies used to treat waste and treatment standards.

(EPA530-SW-90-060I)

05/08/1990

Order Number: PB90-234 360

Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for K024 (Final)

Provides EPA's rationale and technical support for selecting constituents to be regulated in K024 waste. Also provides a rationale for developing treatment standards for regulated constituents. Provides waste characterization and treatment information that serves as a basis for determining whether variances are warranted.

(EPA530-SW-88-031H)

08/15/1988

Order Number: PB89-142 426

Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for K031, K084, K101, K102, Characteristic Arsenic Wastes (D004), Characteristic Selenium Wastes (D010), and P and U Wastes Containing Arsenic and Selenium Listing Constituents (Final)

Provides EPA's rationale and technical support for developing regulatory standards for certain wastes containing arsenic and selenium. Presents data regarding industries affected by LDRs, brief descriptions of waste-generating processes, and waste characterization data. Discusses the technologies used to treat wastes and the treatment standards.

(EPA530-SW-90-059A)

05/08/1990

Order Number: PB90-234

Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for K037 (Final)

Provides EPA's rationale and technical support for selecting and developing treatment standards for K037 waste as identified in 40 CFR Part 261.32. Presents waste-specific information, treatment technologies, and performance data. Explains EPA's BDAT determination.

(EPA530-SW-88-031I)

08/15/1988

Order Number: PB89-142 434

Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for K037; Amendment (Final)

Provides EPA's rationale and technical support for revising BDAT for regulated constituents in K037 waste waters and for developing treatment standards for constituents. Includes performance data for wastewater constituents parathion and toluene.

(EPA530-SW-90-060O)

05/08/1990

Order Number: PB90-234 428

Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for K043 (Final)

Provides EPA's rationale and technical support for selecting and developing proposed treatment standards for K043 as identified in 40 CFR Part 261.32. Presents waste-specific information, discusses technologies used to treat waste, and gives performance data. Explains EPA's BDAT determination.

(EPA530-SW-89-048L) 06/15/1989

Order Number: PB89-221 493 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for K046 Nonreactive Subcategory (Final)

Provides EPA's rationale and technical support for selecting constituents to be regulated in K046 waste and for developing treatment standard for regulated constituents. Gives waste characterization information that serves as a basis for determining whether variances are warranted.

(EPA530-SW-88-031J) 08/15/1988

Order Number: PB89-142 442 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for K046; Addendum (Final)

Provides EPA's technical support and rationale for developing regulatory standards for K046 wastes. Discusses waste generation and industries affected by LDRs, plus technologies to treat waste and treatment standards. Identifies applicable treatment technologies. Includes performance data on untreated and treated waste concentrations for various constituents and waste characteristics that affect performance of treatment technology. Appendix shows determination of nonreactive and reactive forms of K046.

(EPA530-SW-90-059J) 05/08/1990

Order Number: PB90-234 105 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for K048, K049, K050, K051, and K052 (Final)

Provides EPA's rationale and technical support for selecting constituents regulated in K048 through K052 wastes and for developing treatment standards for constituents. Provides waste characterization information for determining whether variances might be warranted for particular wastes. Explains EPA's determination of BDAT, selection of constituents to be regulated, and the calculation of treatment standards.

(EPA530-SW-88-031C) 08/15/1988

Order Number: PB89-142 376 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for K048, K049, K050, K051, and K052; Amendment (Final)

Presents K048 to K052 solvent extraction and incineration scrubber water data used to develop treatment standards for nonwastewaters. Presents K048 incinerator scrubber water data used to develop treatment standards for cyanide in wastewaters. Provides EPA's rationale and technical support for developing, adding, and deleting various treatment standards for K048 through K052. Also provides rationale and support for selecting cyanide as a regulated constituent and developing treatment standards for cyanide in wastewater forms of K048 to K052.

(EPA530-SW-90-060R) 05/08/1990

Order Number: PB90-234 451 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for K060 (Final)

Provides EPA's technical support and rationale for selecting and developing proposed treatment standards for constituents to be regulated in K060 waste. Explains how EPA determines BDAT, selects constituents for regulation, and calculates treatment standards. Sections 2 through 7 describe waste-specific information and the technologies used to treat waste.

(EPA530-SW-90-059H) 05/08/1990

Order Number: PB90-234 089 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for K061 (Final)

Provides EPA's rationale and technical support for selecting constituents to be regulated in K061 waste and for developing treatment standards for regulated constituents. Provides waste characterization and treatment information that serves as a basis for determining whether variances might be warranted.

(EPA530-SW-88-031D) 08/15/1988

Order Number: PB89-142 384 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for K061; Addendum (Final)

Presents technical support and rationale for promulgation of treatment standards for K061 wastewaters. Issued as an addendum to the August 1988, background document for K061. Promulgates standards for four BDAT metal constituents (cadmium, chromium, lead, and nickel) regulated in K061 nonwastewaters. Treatment standards for K061 waste waters are included.

(EPA530-SW-90-059I) 05/08/1990

Order Number: PB90-234 097 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for K062 (Final)

Provides EPA's rationale and technical support for selecting and developing treatment standards for K062 wastes as identified in 40 CFR Part 261.32. Presents waste-specific information, technologies used to treat waste, and performance data. Explains EPA's BDAT determination.

(EPA530-SW-88-031E) 08/15/1988

Order Number: PB89-142 392 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for K071 (Final)

Provides EPA's rationale and technical support for selecting constituents to be regulated in K071 waste and for developing treatment standards for regulated constituents. Provides waste characterization and treatment information for determining whether variance might be warranted.

(EPA530-SW-88-031F) 08/08/1988

Order Number: PB89-142 400 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for K073 (Final)

Provides EPA's technical support for selecting and developing treatment standards for constituents to be regulated in K073 waste. Section 2 presents waste-specific information. Section 3 discusses technologies used to treat wastes, and Section 4 presents available performance data. Section 5 explains EPA's determination of BDAT. Selection of constituents to be regulated is discussed in Section 6. Treatment standards are determined in Section 7.

(EPA530-SW-90-059E) 05/08/1990

Order Number: PB90-234 055 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for K086 Solvent Wash (Final)

Provides Agency rationale and technical support for selecting and developing treatment standards for K086 solvent waste wash as identified in 40 CFR 261.32. Presents waste-specific information, technologies used to treat wastes, and available performance data. Explains EPA's BDAT determination.

(EPA530-SW-88-031N) 08/15/1988

Order Number: PB89-142 483 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for K086 (Ink Formulation Equipment Cleaning Wastes); Addendum (Final)

Provides EPA's technical support for selecting and developing treatment standards for constituents to be regulated in K086 waste. Such constituents are defined as solvents, caustic, or water washes and sludges from cleaning tubs, equipment used in the formulation of ink from pigments or driers, as well as soaps and stabilizers containing chromium and lead. Additional data were obtained by the Agency about caustic washes and sludges. Solvent wash sludges also are presented.

(EPA530-SW-90-059G) 05/08/1990

Order Number: PB90-234 071 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for K087 (Final)

Provides EPA's rationale and technical support for selecting constituents to be regulated in K087 wastes and also for developing treatment standards for regulated constituents. Provides waste characterization information for determining whether variances are warranted.
(EPA530-SW-88-031M) 08/08/1988

Order Number: PB89-142 475 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for K099 (Final)

Provides EPA's rationale and technical support for selecting constituents to be regulated in K099 waste as well as for developing treatment standards for regulated constituents. Provides waste characterization data for determining whether treatment variances are warranted.
(EPA530-SW-88-031S) 08/15/1988

Order Number: PB89-142 533 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for K101 and K102 Low Arsenic Subcategory (Final)

Provides EPA's rationale and technical support for selecting constituents to be regulated in K101 and K102 wastes and also for developing treatment standards for regulated constituents. Provides waste characterization information for determining whether variances might be granted.
(EPA530-SW-88-031K) 08/15/1988

Order Number: PB89-142 459 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for K103 and K104 (Final)

Provides EPA's rationale and technical support for selecting constituents to be regulated in K103 and K104 wastes and also for developing treatment standards for regulated constituents. Provides waste characterization and treatment information that determine whether variances are warranted. (EPA530-SW-88-031G)
08/15/1988

Order Number: PB89-142 418 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for Mercury-Containing Wastes (D009, K106, P065, P092, and U151) (Final)

Presents EPA's rationale and technical support for developing regulatory treatment standards for mercury-containing wastes coded D009, K106, P065, P092, and U151. Section 2 describes industries affected and Section 3 specifies applicable and demonstrated treatment technologies. Section 4 contains performance data and Section 5 analyzes performance data to determine BDAT for each waste. Section 6 presents rationale for selection of regulated constituents. BDAT treatment standards and calculation are presented in Section 7.
(EPA530-SW-90-059Q) 05/08/1990

Order Number: PB90-234 1701 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for Newly Listed Refinery Wastes: F037 and F038 (Final)

Provides EPA's rationale and technical support for selecting the constituents regulated for F037 and F038 wastes, generated by the petroleum refining industry. Describes the petroleum refining industry. Includes waste characterization data. Discusses applicable and demonstrated treatment technologies.
(EPA530-R-95-024) 06/30/1992

Order Number: PB95-230 843 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for Newly Listed Wastes: K107, K108, K109, K110, K111, K112, U328, U353, K117, K118, K136, K123, K124, K125, K126, K131, K132, U359 (Final)

Provides EPA's rationale and technical support for developing BDAT treatment standards for 1,1-Dimethylhydrazine production wastes; dinitrotoluene and toluenediamine production wastes; ethylene dibromide production wastes; ethylenebisdithiocarbamic acid production wastes; methyl bromide production wastes, and 2-Ethoxyethanol waste. Includes waste characterization data. Discusses applicable and demonstrated treatment technologies.
(EPA530-R-95-025) 06/30/1992

Order Number: PB95-230 850 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for Organic Toxicity Characteristic Wastes D018-D043 and Addendum to Nonwastewater Forms of Pesticide Toxicity Characteristic Wastes D012-D017 (Final)

Provides EPA's rationale and technical support for developing BDAT treatment standards for both nonwastewater and wastewater forms of the organic toxicity characteristic wastes (D018 through D043). Provides revisions to the nonwastewater BDAT treatment standard for D015 and treatment standards for newly identified D012 through D017 wastes identified as hazardous by the TCLP but not by the extraction procedure.

(EPA530-R-95-031) 07/15/1994

Order Number: PB95-230 918 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for Organophosphorus Wastes, K036 Nonwastewaters; Amendment (Final)

Discusses incineration for treating disulfoton, a proposed constituent in K036 nonwastewaters. Determines incineration as the best available technology, and gives EPA's rationale for transferring treatment data for incineration of K037 to K036 nonwastewater streams.

(EPA530-SW-90-060N) 05/08/1990

Order Number: PB90-234 410 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for Organophosphorus Wastes, K038-K040, and Various P and U Codes (Final)

Provides EPA's technical support for selecting and developing treatment standards for constituents to be regulated in organophosphorus wastes. Section 2 includes waste specific information, and Section 3 describes applicable and demonstrated treatment technologies. Section 4 presents available performance data, and Section 5 explains EPA's determination of BDAT. Section 6 presents support for the selection of constituents to be regulated, and Section 7 contains treatment standards.

(EPA530-SW-89-048G) 06/15/1989

Order Number: PB89-221 444 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for P and U Thallium Wastes (Final)

Presents waste-specific information for thallium-containing waters. Also provides the number and location of facilities affected by LDRs, waste-generating processes, and waste characterization data. Discusses technologies used to treat waste and provides available performance data, including data on which treatment standards are based. Explains EPA's BDAT determination.

(EPA530-SW-90-059R) 05/08/1990

Order Number: PB90-234 188 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for Phthalate Wastes, K023, K093, K094, and Various P and U Codes (Final)

Provides EPA's technical support for selecting and developing treatment standards for constituents regulated in phthalate wastes as identified in 40 Part CFR 261.32 through 261.33. Presents waste-specific data, technologies used to treat wastes, and available performance data. Explains EPA's BDAT determination.

(EPA530-SW-89-048H) 06/15/1989

Order Number: PB89-221 451 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for Quality Assurance/Quality Control Procedures and Methodology (Final)

Provides EPA's approach for implementing the LDR program regarding how treatment standards were developed for earlier rules. Also describes how EPA intends to collect and evaluate treatment data to develop treatment standards on future rules. Presents the Quality Assurance Project Plan, the methodology used for establishing treatment standards, a summarization of the treatment standards for the Solvents and Dioxins Rule, California List Rule, and First, Second, and Third Third Rules.

(EPA530-R-92-002) 10/23/1991

Order Number: PB92-149 277 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for Silver-Containing Wastes D011, P099, P104 (Final)

Determines that D011 wastes represent one treatability group for nonwastewaters and another treatability group for waste waters based on physical and chemical characteristics. EPA examines sources of wastes, specific similarities in waste composition, applicable and demonstrated treatment technologies, and attainable treatment performance standards to support a simplified regulatory approach for silver-containing wastes.

(EPA530-SW-90-059X) 05/08/1990

Order Number: PB90-234 246 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for Spent Potliners From Primary Aluminum Reduction K088 (Final)

Provides EPA's rationale and technical support for developing BDAT treatment standards for spent potliners from primary aluminum reduction coded as K088. Discusses the regulation of both nonwastewater and wastewater forms of K088 by establishing BDAT treatment standards numerically equivalent to universal treatment standards. Summarizes the BDAT treatment standards, the basis for listing spent potliners as hazardous, and how BDAT treatment standards reflect the goals of the LDR program. Describes the industry and processes generating K088 and presents data characterizing these wastes. Explains the methodology and rationale for the selection of the regulated constituents, discusses treatment technologies for these wastes, and examines potential reuse and recycling, source reduction, pollution prevention, and waste minimization alternatives.

(EPA530-R-96-015) 02/29/1996

Order Number: PB96-190 715 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for Stripping Still Tails From the Production of Methyl Ethyl Pyridine, K026 (Final)

Provides EPA's reasons and support for developing standards. Gives waste characterization data that serve as a basis for determining whether a variance from treatment standard might be warranted for a particular type of K026.

(EPA530-SW-90-060L) 05/08/1990

Order Number: PB90-234 394 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for Toxicity Characteristic Metal Wastes D004-D011; Proposed

Provides the EPA's rationale and technical support for developing BDAT treatment standards for both nonwastewater and wastewater forms of the eight toxicity characteristic metal wastes: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. Describes industries affected and provides waste characterization information.

(EPA530-R-97-033) 07/26/1995

Order Number: PB97-176 986 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for U and P Wastes and Multisource Leachate (F039), Volume A: Wastewater Forms of Organic U and P Wastes and Multisource Leachate (F039) for Which There Are Concentration-Based Treatment Standards

Provides EPA's rationale and technical support for developing concentration-based treatment standards for multi-source leachates and organic U and P wastes amenable to quantification in hazardous waste matrices. Standards are applicable to wastes listed as well as wastes generated by management and treatment of listed waste. Treatment standards are specified for nonwastewater and wastewater forms of listed hazardous wastes.

(EPA530-SW-90-060F) 05/08/1990

Order Number: PB90-234 337 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for U and P Wastes, Multisource Leachate (F039), Volume B: U and P Wastewaters and Nonwastewaters with Methods of Treatment as Treatment Standards

Provides EPA's rationale and technical support for developing treatment standards for U and P wastes with methods of treatment as BDAT treatment standards. Standards are applicable to wastes as listed in 40 CFR 261.33 (e) and (f) and wastes generated by management or treatment of listed wastes. Treatment standards are specified for both nonwastewater and wastewater forms of the listed hazardous waste. Waste waters defined as containing less than 1 percent (weight basis) total suspended solids and less than 1 percent (weight basis) total organic carbon. (EPA530-SW-90-060G) 05/08/1990

Order Number: PB90-234 345 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for U and P Wastes, Multisource Leachate (F039), Volume C: Nonwastewater Forms of Organic U and P Wastes and Multisource Leachate (F039) for Which There Are Concentration-Based Treatment Standards

Provides a description of industries affected by LDRs, processes that are generating wastes, and available waste characterization data. Includes EPA's rationale for combining waste codes into 12 treatability groups. The rationale for identifying BDAT wastes also is presented. Gives data used for calculating and determining treatment standards.

(EPA530-SW-90-060H) 05/08/1990

Order Number: PB90-234 352 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for U and P Wastes, Multisource Leachate (F039), Volume D: Reactive U and P Wastewaters and Nonwastewaters

Provides EPA's rationale and technical support for developing treatment standards for U and P wastes with reactive listing constituents. Standards are specified for nonwastewater and waste water forms of each listed hazardous waste. Waste waters are defined as wastes containing less than 1 percent (weight basis) total suspended solids and less than 1 percent (weight basis) total organic carbon.

(EPA530-SW-90-060C) 05/08/1990

Order Number: PB90-234 303 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for U and P Wastes, Multisource Leachate (F039), Volume E: U and P Gaseous Wastes

Provides EPA's rationale and technical support for developing method-based treatment standards for three gaseous U and P wastes: ethylene oxide (U115), nitric oxide (P076), and nitrogen dioxide (P078). Standards are applicable to wastes both listed and generated by management. Standards are specified for both nonwastewater and wastewater forms of listed hazardous wastes. Waste waters are defined as wastes containing less than 1 percent (weight basis) total suspended solids and less than 1 percent (weight basis) total organic carbon.

(EPA530-SW-90-060S) 05/08/1990

Order Number: PB90-234 469 **Order Form: NTIS**

Best Demonstrated Available Technology (BDAT) Background Document for Universal Standards; Volume A: Universal Standards for Nonwastewater Forms of Listed Hazardous Wastes (Final)

Defines universal treatment standard as a single concentration-based treatment standard established for a specific constituent, which has the same treatment standard in each waste code in which it is regulated. Establishes two different sets of universal standards: one for nonwastewater forms of wastes and one for waste-water forms of wastes. Provides EPA's rationale and technical support for selecting the constituents for regulation under universal standards and for developing the universal standards for nonwastewater forms of listed hazardous wastes. Establishes universal standards for 185 organic constituents and 14 metal constituents in nonwastewater forms of listed hazardous wastes. Identifies applicable and demonstrated treatment technologies.

(EPA530-R-95-032) 07/15/1994

Order Number: PB95-230 926 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for Universal Standards; Volume B: Universal Standards for Wastewater Forms of Listed Hazardous Wastes (Final)

Provides EPA's rationale and technical support for selecting the constituents for regulation under universal standards and for developing the universal standards for wastewater forms of listed hazardous wastes. Establishes universal standards for 195 organic constituents and 13 metal constituents in wastewater forms of listed hazardous wastes. Identifies applicable and demonstrated treatment technologies.

(EPA530-R-95-033) 07/15/199

Order Number: PB95-230 934 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for Vanadium-Containing Wastes P119 and P120 (Final)

Presents waste-specific information for P119 and P120 wastes. Gives the number and locations of facilities affected by LDRs, waste-generating processes, and waste characterization data. Discusses technologies used to treat wastes (or similar wastes). Presents available performance data, including data upon which treatment standards are based. Explains EPA's determination of BDAT.

(EPA530-SW-90-059S) 05/08/1990

Order Number: PB90-234 196 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for Wastes From the Production of Chlorinated Aliphatic Hydrocarbons, F024 (Final)

Provides EPA standards and technical support for selecting constituents regulated in F024 and also for developing treatment standards as required under 40 CFR Part 261.31. Explains determination of BDAT and calculates the treatment standards.

(EPA530-SW-89-048M) 05/15/1989

Order Number: PB89-221 501 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for Wastes From the Production of Chlorinated Aliphatic Hydrocarbons, F024; Amendment (Final)

Gives F024 incinerator ash stabilization data, plus EPA's reasons for selecting metal constituents to be regulated in nonwastewater forms of F024. Also provides reasons for deleting chlorinated dibenzodioxins and dibenzofurans as regulated constituents in F024. Details the approach used in developing treatment standards for metal constituents in nonwastewater forms of F024.

(EPA530-SW-90-060Q) 05/08/1990

Order Number: PB90-234 444 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for Wastes From the Production of Chlorinated Aliphatics F025 (Final)

Provides EPA's rationale and technical support for selecting constituents to be regulated in F025 and for developing treatment standards. Includes applicable waste-specific information and demonstrated technologies, and a summary of available performance data. Explains EPA's BDAT determination.

(EPA530-SW-90-060A) 05/08/1990

Order Number: PB90-234 287 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for Wastes From the Production of Dinitrotoluene, Toluenediamine, and Toluene Diisocyanate, K027, K111-K116, U221, and U223 (Final)

Provides EPA's treatment standards for the wastes identified in 40 CFR Part 261.32 and 40 CFR Part 261.33, known as K027, K113 through K116, U221, and U223. Explains EPA's BDAT determination, selection of constituents to be regulated, and calculation of treatment standards.

(EPA530-SW-89-048O) 05/15/1989

Order Number: PB89-221 527 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for Wastes from the Production of Epichlorohydrin, K017 (Final)

Provides EPA's rationale and technical support for selecting constituents for regulation in K017 and for developing treatment standards. Provides waste characterization data for determining whether variances from treatment is warranted in particular cases. Includes waste-specific information.

(EPA530-SW-90-060D) 05/08/1990

Order Number: PB90-234 311 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for Wastes from the Production of 1,1,1-Trichloroethane, K028, K029, K095, and K096 (Final)

Provides EPA's rationale and technical standards for selecting constituents regulated in K028, K029, K095, K096, and K028. Also provides background on developing treatment standards as identified in 40 CFR Part 261.32. Provides waste-specific information.

(EPA530-SW-89-048N) 05/25/1989

Order Number: PB89-221 519 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for Wastes from the Production of 1,1,1-Trichloroethane, K028, K029, K095, and K096; Amendment (Final)

Evaluates treatment performance data from the stabilization of ash from incineration of F024. EPA modifies treatment standards for metals in K028 nonwastewaters. Provides rationale and technical support for selecting metal constituents for regulation in K028 nonwastewaters, and for selecting organic constituents for regulating K029, K095, and K096 waste waters.

(EPA530-SW-90-060E) 05/08/1990

Order Number: PB90-234 329 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for Wastewater Treatment Sludges Generated in the Production of Creosote K035 (Final)

Provides EPA's rationale and technical support for selecting constituents for regulation in K035 and for developing treatment standards for constituents. Provides waste characterization data for determining whether variances from treatment standards might be warranted.

(EPA530-SW-90-060M) 05/08/1990

Order Number: PB90-234 402 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Document for Wood Preserving Wastes: F032, F034, and F035 (Final)

Provides EPA’s rationale and technical support for developing BDAT treatment standards for wastes generated during application of wood preservatives, F032, F034, and F035 under the LDR program. Presents characterization data that may serve as a basis for determining whether a variance from the applicable treatment standards is warranted. Describes the compliance treatment standard alternative of combustion for the regulation of dioxin and furan constituents in F032. Addresses universal treatment standards. Discusses debris and media contaminated with wood preserving wastes.
(EPA530-R-97-026) 04/15/1997

Order Number: PB97-176 911 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Documents for First Third Wastes; Final Rule (Complete Set)

Supports the final LDR rule for First Third wastes. Estimates quantities of wastes that require alternative treatment or recovery prior to disposal. Reassesses capacity analyses developed for wastes covered by previous rules. Discusses quantities of the First Third wastes affected by proposed rules. Data were obtained from results of the National Survey of Hazardous Waste TSDR Facilities.
(EPA530-SW-88-031) 08/15/1988

Order Number: PB89-142 343 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Documents for Second Third Wastes; Final Rule (Complete Set)

Supports the final LDR rule for Second Third wastes. Estimates quantities of wastes that require alternative treatment or recovery prior to disposal. Reassesses capacity analyses developed for wastes covered by previous rules. Discusses quantities of the Second Third wastes affected by proposed rules. Data were obtained from results of the National Survey of Hazardous Waste TSDR Facilities.
(EPA530-SW-89-048) 06/15/1989

Order Number: PB89-221 402 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Documents for Third Third Wastes; Final Rule (First Part of Complete Set)

Supports the final LDR rule for Third Third wastes. Estimates quantities of wastes that require alternative treatment or recovery prior to disposal. Reassesses capacity analyses developed for wastes covered by previous rules. Discusses quantities of the Third Third wastes affected by proposed rules. Data were obtained from results of the National Survey of Hazardous Waste TSDR Facilities.
(EPA530-SW-90-059) 05/08/1990

Order Number: PB90-234 006 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Documents for Third Third Wastes; Final Rule (Second Part of Complete Set)

Supports the final LDR rule for Third Third wastes. Estimates quantities of wastes that require alternative treatment or recovery prior to disposal. Reassesses capacity analyses developed for wastes covered by previous rules. Discusses quantities of the Third Third wastes affected by proposed rules. Data were obtained from results of the National Survey of Hazardous Waste TSDR Facilities.
(EPA530-SW-90-060) 05/08/1990

Order Number: PB90-234 279 Order Form: NTIS

Best Demonstrated Available Technology (BDAT) Background Documents for Wastes for Which Wastewater Treatment Standards Were Determined Based on Concentrations in Incinerator Scrubber Water: K015, K016, K018, K019, K020, K023, K024, K028, K030, K048, K049, K050, K051, K052, K087, K093, K094, U028, U069, U088, U102, U107, and U190 (Final Amendments)

Revises treatment standards for organic constituents regulated in wastewater forms of the hazardous wastes listed in the title. Bases treatment standards on available wastewater treatment performance data rather than concentrations in incinerator scrubber water. Supplement discussions are provided in background documents: BDAT Background Document for K015; BDAT Background Document for K016, K018, K019, K020, and K030; BDAT Background Document for Phthalate Wastes; BDAT Background Document for K024; BDAT Background Document for Wastes from the Production of 1,1,1- Trichloroethane; BDAT Background Document for K048- K052; and BDAT Background Document for K087. (EPA530-R-95-029) 06/30/1992

Order Number: PB95-230 892 Order Form: NTIS

Best Management Practices (BMPs) for Soil Treatment Technologies: Suggested Operational Guidelines to Prevent Cross-Media Transfer of Contaminants during Cleanup Activities

Provides guidance on how to design and conduct soil remediation activities at RCRA and other hazardous waste sites so that transfers of contaminants from contaminated soil to other media (i.e., clean soil, air, and surface or groundwater) are minimized. Outlines the specific potential cross-media concerns for specific activities and recommends approaches for preventing cross-media transfer of contaminants. Addresses BMPs applicable across a broad range of remedial activities and most remediation technologies. Offers information on control technologies that can be used in conjunction with BMPs. Presents technology-specific BMPs for seven technology categories: containment technologies, soil washing, thermal treatment, vapor extraction, bioremediation, incineration treatment, and other physical/chemical treatments. Includes case studies and list of acronyms. 05/15/1997

Order Number: EPA530-R-97-007 Order Form: OSW

***Better Rules for Zinc Fertilizer Recycling**

Fact sheet announcing EPA's decision to improve regulatory controls on the practice of recycling zinc in hazardous waste to make micronutrient fertilizers. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/recycle/fertiliz/fert_fs.pdf>. 07/15/2002

Order Number: EPA530-F-02-038 Order Form: OSW

Beyond RCRA: Prospects for Wastes and Materials Management in the Year 2020

Examines how the RCRA program could and should evolve to meet the challenges and opportunities of the new century. Explores the future of waste and materials management in the United States. 08/15/2002

Order Number: EPA530-R-02-009 Order Form: OSW

Biosolids Generation, Use, and Disposal in the United States

Defines biosolids as the solid organic matter produced from municipal wastewater treatment processes that can be beneficially used, especially as a soil amendment. Summarizes the various treatment, use, and disposal practices for biosolids and includes brief references to regulatory requirements. Provides estimates of the amount of biosolids generated, recovered, and disposed of in the U.S. Discusses current and possible future trends in the generation, use, and disposal of biosolids through 2010. Outlines beneficial uses of biosolids, addresses concerns about beneficial use, and presents several case studies that illustrate a variety of successful biosolids management programs. Appendix provides methodology used and detailed results of data analyses. Includes tables and figures. 09/15/1999

Order Number: EPA530-R-99-009 Order Form: OSW

Building Savings: Strategies for Waste Reduction of Construction and Demolition Debris from Buildings

A fact sheet packet aimed at local governments that want to encourage more building-related construction and demolition debris recovery, building owners and developers interested in green building design, and building contractors seeking a competitive edge. Explains what construction and demolition debris are. Describes how these materials are recovered including reuse and recycling, and the benefits of recovering them. Answers frequently asked questions about construction and demolition debris recovery. Also highlights model programs.

06/15/2000

Order Number: EPA530-F-00-001 Order Form: OSW

Business Guide for Reducing Solid Waste

Offers step-by-step instructions designed to assist medium and large businesses, governments, and other organizations in establishing waste reduction programs. Provides an overview on developing and implementing such programs as well as worksheets to help the waste reduction team conduct a waste assessment and devise a program tailored to its company's specific goals. Appendices include waste reduction ideas, regional EPA and state waste reduction program contacts, a glossary, a volume-to-weight conversion table, and a list of common recyclable materials.

09/15/1993

Order Number: EPA530-K-92-004 Order Form: OSW

Capacity Analysis for Land Disposal Restrictions—Phase IV: Newly Identified Toxicity Characteristic Metal Wastes and Mineral Processing Wastes (Final Rule); Background Document

Presents the capacity analysis EPA conducted on surface-disposed wastes to support the Phase IV LDR rulemaking. Provides estimates of the quantities of wastes that will require alternative commercial treatment prior to land disposal, and estimates alternative treatment capacity available to manage wastes restricted from land disposal. Discusses the methodology EPA used in estimating required commercial treatment capacity. Details the capacity analysis for toxicity characteristic metal wastes and the newly identified mineral processing wastes. Appendices include data on stabilization capacity, phone logs regarding metals recovery capacity, data on vitrification capacity, 1995 BRS data on toxicity characteristic metal wastes managed on-site and off-site, and soil treatment capacity.

(EPA530-R-99-024)

04/15/1998

Order Number: PB99-155 996 Order Form: NTIS

Case of the Broken Loop

This activity book for grades 4-6 is part of the *Planet Protectors Club Kit*. Students follow the detective through word scrambles, a crossword puzzle, and matching games to learn about reducing waste and to track down the Garbage Gremlin. Also available in Spanish.

09/15/1998

**Order Number: EPA530-K-98-002
Order Number: EPA530-K-98-002S Order Form: OSW**

El Caso del Círculo Roto (Spanish Translation of *Case of the Broken Loop*)

Este libro de actividad para grados 4-6 es parte del Club de los Protectores del Planeta. Los estudiantes siguen al detective a través de revoltijos de palabras, un crucigrama de palabras, pistas ocultas, y juegos de comparaciones para aprender más sobre la reducción de los desechos y atrapar al Monstruo de la Basura.

15/09/1998

**Número de pedido: EPA530-K-98-002S
Formulario de pedido: OSW**

Census of State and Territorial Subtitle D Non-Hazardous Waste Programs

Summarizes the findings of census information from state and territorial Subtitle D non-hazardous waste programs. Describes background, objectives, methods, results, and conclusions of census, including state organizational structures and resources for Subtitle D programs. Also includes information on the total number of basic characteristics of Subtitle D facilities and data on regulatory programs.

(EPA530-SW-86-039)

10/15/1986

Order Number: PB87-108 080/AS **Order Form:** NTIS

Characterization of Building-Related Construction and Demolition Debris in the United States

Characterizes the quantity and composition of building-related C&D debris generated in the U.S. Summarizes the waste management practices for this waste stream. Focuses on building-related wastes, including construction, demolition, and renovation of residential and non-residential buildings. Briefly addresses road and bridge debris and land clearing debris. Discusses the generation and management of C&D debris in the U.S. Appendices contain calculations, state definitions for C&D debris, and typical C&D debris constituents. Includes tables, figures, and bibliography.

06/15/1998

Order Number: EPA530-R-98-010 **Order Form:** OSW

Characterization of Municipal Solid Waste in the United States, 1960-2000

Summarizes historical MSW quantities and the composition of waste from 1960 to 1986, with projections to 2000. Material flows methodology developed by EPA in the 1970s is used to make estimates.

07/25/1986

Order Number: PB87-178 323 **Order Form:** NTIS

Characterization of Municipal Waste Combustion Ash, Ash Extracts, and Leachates

Characterizes municipal waste combustion ash, laboratory extracts of the ash, and leachates from ash disposal facilities. Combined bottom and fly ash samples from five state-of-the-art mass burn municipal waste combustion facilities were collected. Results indicated low concentrations of dioxins and furans (PCDDs/PDFs) and Appendix IX semivolatile compounds. Levels for lead and cadmium were frequently exceeded. One extract exceeded mercury level, but no extract from other extraction procedures exceeded regulatory levels.

(EPA530-SW-90-029A)

03/15/1990

Order Number: PB90-187 154 **Order Form:** NTIS

Characterization of Municipal Waste Combustion Ash, Ash Extracts, and Leachates; Executive Summary

Outlines the characterization of municipal waste combustion ash, ash extracts, and leachates study. See preceding abstract.

03/15/1990

Order Number: EPA530-SW-90-029B **Order Form:** OSW

Characterization of MWC Ashes and Leachates From MSW Landfills, Monofills, and Co-Disposal Sites (Complete Set)

Supports EPA study of Subtitle D program. Principal objective was to assist in the development of data to evaluate potential health and environmental effects of leachate from municipal landfills. Baseline data include a range of concentrations of organics and inorganics in fly ash, bottom ash, and combined ash.

(EPA530-SW-87-028)

10/15/1987

Order Number: PB88-127 931 **Order Form:** NTIS

Characterization of MWC Ashes and Leachates From MSW Landfills, Monofills, and Co-Disposal Sites; Volume I: Summary

Supports an EPA study of the Subtitle D program. Principal objective was to assist in the development of data to evaluate potential health and environmental effects of leachate from municipal landfills. Baseline data include a range of concentrations of organics and inorganics in fly ash, bottom ash, and combined ash. (EPA530-SW-87-028A) 10/15/1987

Order Number: PB88-127 949 Order Form: NTIS

Characterization of MWC Ashes and Leachates From MSW Landfills, Monofills, and Co-Disposal Sites; Volume II: Leachate Baseline Report; Determination of Municipal Landfill Leachate Characteristics

Supports an EPA study of the Subtitle D program. Principal objective was to assist in the development of data to evaluate potential health and environmental effects of leachate from municipal landfills. Summarizes existing leachate characteristic data including concentrations of organic and inorganic parameters. (EPA530-SW-87-028B) 10/15/1987

Order Number: PB88-127 956 Order Form: NTIS

Characterization of MWC Ashes and Leachates from MSW Landfills, Monofills, and Co-Disposal Sites; Volume III: Addendum to Characterization of Municipal Landfill Leachates; A Literature Review

Summarizes the findings from literature on leachate production at MSW landfills. Summarizes information found on factors influencing quantity and quality of leachates generated at Subtitle D municipal landfills. Presents data generated on the composition of actual leachates and leachates formulated under test conditions (extracts). (EPA530-SW-87-028C) 10/15/1987

Order Number: PB88-127 964 Order Form: NTIS

Characterization of MWC Ashes and Leachates from MSW Landfills, Monofills, and Co-Disposal Sites; Volume IV: Characterization of Municipal Waste Combustion Residues and Their Leachates; A Literature Review

Reviews literature and results of research conducted for EPA. Covers the results of research. Data address environmental issues associated with contaminant discharges from municipal waste combustor residues into environmental media. Addresses potential discharges of leachates into soil, ground water, and surface water. Describes the chemical characteristics of fly ash, bottom ash, and combined ashes, and characteristics of extracts and leachates. (EPA530-SW-87-028D) 10/15/1987

Order Number: PB88-127 972 Order Form: NTIS

Characterization of MWC Ashes and Leachates From MSW Landfills, Monofills, and Co-Disposal Sites; Volume V: Characterization of Municipal Waste Combustor Residues

Describes planning, sampling, and analysis activities. Summarizes the results of chemical analyses performed on fly ash, bottom ash, and laboratory-prepared leachates of both types of ash. Evaluates results of analyses pertinent to municipal waste combustion facility design and operation, variations among leachate preparation procedures, and characterization of residues. (EPA530-SW-87-028E) 10/15/1987

Order Number: PB88-127 980 Order Form: NTIS

Characterization of MWC Ashes and Leachates from MSW Landfills, Monofills, and Co-Disposal Sites; Volume VI: Characterization of Leachates From Municipal Waste Disposal Sites and Co-Disposal Sites

Characterizes leachates from municipal waste disposal sites and co-disposal sites. Prepared to provide support to EPA's study of 40 CFR Part 268 Subtitle D program. Develops data to evaluate potential effects on humans and the environment from leachates generated by landfills. Volume VI of VII. (EPA530-SW-87-028F) 10/15/1987

Order Number: PB88-127 998 Order Form: NTIS

Characterization of MWC Ashes and Leachates from MSW Landfills, Monofills, and Co-Disposal Sites; Volume VII: Addendum to Monofill Report

Includes conventional parameters in leachates from monofills and in quench waters with landfill samplings from several sites. Addendum is Volume VII of VII. (EPA530-SW-87-028G) 10/15/1987

Order Number: PB88-128 004 Order Form: NTIS

Characterization of Products Containing Lead and Cadmium in Municipal Solid Waste in the United States, 1970 to 2000

Characterizes sources of lead and cadmium in products disposed of in MSW between 1970 and 1986, with projections to year 2000. Findings include individual products in MSW that contain lead such as lead-acid batteries, consumer electronics, glass, and ceramics. (EPA530-SW-89-015A) 01/15/1989

Order Number: PB88-128 004 Order Form: NTIS

Characterization of Products Containing Lead and Cadmium in Municipal Solid Waste in the United States, 1970 to 2000; Executive Summary

Summarizes investigation of sources of lead and cadmium products disposed of in MSW between 1970 and 1986, with projections to 2000. Lead and cadmium products include lead-acid batteries, household batteries, consumer electronics, glass, ceramics, plastics, soldered cans, and pigments. 01/15/1989

Order Number: EPA530-SW-89-015C Order Form: OSW

Characterization of Products Containing Lead and Cadmium in Municipal Solid Waste in the United States, 1970 to 2000; Executive Summary and Chapter 1: Lead and Cadmium in Municipal Solid Waste; Overview and Summary

Provides overview and summary of study investigating sources of lead and cadmium products disposed of in MSW between 1970 and 1986, with projections to 2000. Lead and cadmium products include: lead-acid batteries, household batteries, consumer electronics, glass, ceramics, plastics, soldered cans, and pigments. 01/15/1989

Order Number: EPA530-SW-89-015B Order Form: OSW

Characterization of Products Containing Mercury in Municipal Solid Waste in the United States, 1970 to 2000

Identifies the products in MSW that might contain mercury and quantifies its presence in these products. (EPA530-R-92-013) 04/15/1992

Order Number: PB92-162 569 Order Form: NTIS

Characterization of Products Containing Mercury in Municipal Solid Waste in the United States, 1970 to 2000; Executive Summary

Identifies the products in MSW that might contain mercury and quantifies its presence in these products. 04/15/1992

Order Number: EPA530-S-92-013 Order Form: OSW

Charging Households for Waste Collection and Disposal: The Effects of Weight or Volume-Based Pricing on Solid Waste Management

Studies impact on households from weight- or volume-based pricing for solid waste collection and disposal services. Examines effect of unit pricing on waste generation and disposal behavior of households. Also examines the effect of unit pricing on costs of managing solid waste. Discusses the role of particular features of unit pricing and other complementary programs in promoting or mitigating different effects of unit pricing. (EPA530-SW-90-047) 09/15/1990

Order Number: PB91-111 484 Order Form: NTIS

Chemical, Physical, and Biological Properties of Compounds Present at Hazardous Waste Sites (Final Report)

Catalogs chemicals present at hazardous waste sites, profiling and summarizing chemicals by physical and biological properties. Regulations, standards, and recommended exposure levels pertaining to each chemical are included in profiles.

(EPA530-SW-89-010) 09/27/1985

Order Number: PB89-132 203 Order Form: NTIS

El Ciclo de Vida de un CD o DVD (Spanish Translation of Life Cycle of a CD or DVD)

Cartel que demuestra el ciclo de vida de un CD o de un DVD desde obtener las materias primas asta la fabricación, el empaquetado, la distribución, la vida útil, y la disposición. Anima la reutilización y el reciclaje. Explica la importancia de la gerencia del ciclo de vida. Incluye artes y otras maneras de reutilizar CDs y DVDs. Incluido en *Su Vida, Su Mundo, Sus Opiniones: Todo Lo Que Haga Puede Hacer una Diferencia Kit*.

15/02/2004

Número de pedido: EPA530-H-03-002S
Formulario de pedido: OSW

Climate Change and Waste (Kit Folder)

Describes the link between climate change and municipal solid waste. Defines the greenhouse effect. Details the consequences of climate change. Explains the benefits of waste reduction on climate change. Contains eight fact sheets, which are also available separately *Pay-As-You-Throw: A Cooling Effect on Climate Change; WasteWise: Climate Benefits from Reducing Waste; Getting on the Books with Waste Reduction; Moving Targets; Turning Garbage into Gold; Cover Up with Compost; Recycling the Hard Stuff; and Cutting-Edge Software to Cut Emissions*. Updates information on the 1999 folder and the two fact sheets produced in 1999.

03/15/2003

Order Number: EPA530-E-03-002 Order Form: OSW

Closure of Hazardous Waste Surface Impoundments

Presents closure plans and postclosure care considerations and details for surface impoundments containing hazardous wastes. Written for EPA regional offices or state regulatory offices charged with evaluating and approving closure plans for surface impoundments. Describes and references methods, tests, and procedures involved in closing a site.

(EPA SW-873) 09/15/1982

Order Number: PB87-155 537/AS Order Form: NTIS

Closure/Postclosure and Financial Responsibility Requirements for Hazardous Waste Treatment, Storage, and Disposal Facilities; Final Rule; Background Document

Provides support for the final rule for closure and postclosure care and financial responsibility requirements applicable to owners and operators of hazardous waste TSDFs. Includes background of the rulemaking proceeding, public comments, and EPA responses.

(EPA530-SW-86-009) 04/15/1986

Order Number: PB86-210 671 Order Form: NTIS

Closure/Postclosure Interim Status Standards (40 CFR 265, Subpart G): Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities Under RCRA, Subtitle C, Section 3004

Assists regional offices in implementing regulations relevant to closure and postclosure plans. Clarifies concepts, definitions, and rationale behind requirements, and identifies major issues affecting closure and postclosure requirements. Concentrates on closure plans specific to six types of TSDFs: tanks, surface impoundments, land treatment facilities, landfills, incinerators, and multiple process facilities.

(EPA SW-912) 01/15/1984

Order Number: PB87-156 683 Order Form: NTIS

***Coal Combustion Products Partnership (C²P²)**

Defines coal combustion products and addresses the environmental, economic, and performance benefits of using them. Describes the C²P² Program. Only available on the Internet at <www.epa.gov/epaoswer/osw/conserve/c2p2/pubs/factsheet-scrn.pdf>.

01/15/2003

Order Number: EPA530-F-03-003 Order Form: OSW

Collecting Used Oil for Recycling/Reuse: Tips for Consumers Who Change Their Own Motor Oil and Oil Filters

Provides step-by-step instructions for changing motor oil, recycling the used oil, and changing and recycling oil filters. Lists uses for recycled oil. Also available in Spanish.

03/15/1994

*Order Number: EPA530-F-94-008
Order Number: EPA530-F-94-008S Order Form: OSW*

Collection Efficiency: Strategies for Success

Provides new strategies for improving collection efficiency. Discusses reducing collection frequency, automating collection, decreasing fleet size with dual collection, increasing employee productivity, and contracting and competition.

12/15/1999

Order Number: EPA530-K-99-007 Order Form: OSW

A Collection of Solid Waste Resources: Fall 2004 Edition (CD-ROM)

Contains approximately 275 publications developed by OSW. Provides information on how to reduce, reuse, and recycle trash and properly manage different forms of hazardous and solid waste. Also includes educational materials and activities for kids. Contains alphabetical and subject indices. Includes descriptions of OSW's voluntary partnerships. Provides full-text search capability across documents using Adobe Acrobat reader with search plug-in. It is an electronic reference containing key data related to household waste management.

09/15/2004

Order Number: EPA530-C-04-002 Order Form: OSW

Combined NRC/EPA Siting Guidelines for Disposal of Commercial Mixed Low-Level Radioactive and Hazardous Waste

Explains combined Nuclear Regulatory Commission and EPA siting guidelines for disposal of commercial mixed low-level radioactive and hazardous waste. Specifically calls attention to Section 5(e)(1)(B) requiring nonsited compact or non-member states to develop siting plans for disposal facilities.

06/29/1987

Order Number: EPA530-SW-87-029 Order Form: OSW

Combustion of Hazardous Wastes Containing Arsenic, Lead, and Mercury

Discusses the extent to which wastes containing arsenic, lead, and mercury constituents are currently either destroyed in incinerators or burned as fuel in BIFs. Profiles these practices based on the type of combustion facility and type of wastes burned.

05/15/1994

Order Number: EPA530-R-94-018 Order Form: OSW

Commercial Treatment/Recovery Data Set

Outlines the commercial treatment and recovery capacity database. Contains data sets on incineration and reuse of fuel, as well as other treatment systems input in the database. Data are derived from the National Survey of Hazardous Waste TSDR Facilities.

(EPA530-SW-90-078)

05/08/1990

Order Number: PB90-259 789 Order Form: NTIS

Commercial Treatment/Recovery TSDR Survey Data Set

Outlines the commercial treatment and recovery capacity database. Contains data sets on incineration and reuse of fuel, as well as other treatment systems input in the database. Data are derived from the National Survey of Hazardous Waste TSDR Facilities.

(EPA530-SW-89-058)

06/15/1989

Order Number: PB89-220 545 Order Form: NTIS

Community-Based Environmental Protection: OSWER Action Plan

Defines community-based environmental protection as addressing environmental problems in the context of the community in which they occur. Identifies the five attributes of community-based environmental protection. Describes OSWER current and near-term activities.
07/15/1994

Order Number: EPA530-R-95-037 *Order Form:* OSW

Community Options for Safe Needle Disposal

Describes safe needle disposal programs that communities and states might adopt. Offers examples of successful programs including: drop-off collection sites, community household hazardous waste collection centers, residential “special waste” pick-ups, syringe exchange programs, mail-back services, and home needle destruction devices.
09/15/2004

Order Number: EPA530-K-04-001 *Order Form:* OSW

Cómo Almacenar el Aceite Usado de Motor (Spanish Translation of *Storing Used Motor Oil*)

El cartel esta diseñado para los empleados de las estaciones de gasolina en cómo almacenar correctamente el aceite usado. En inglés en dorso.
15/02/2003

Número de pedido: EPA530-H-02-002S
Formulario de pedido: OSW

Cómo Manejar el Aceite Usado de Motor: Maneje el aceite usado de motor de manera segura (Spanish Translation of *Managing Used Oil: Handle Used Motor Oil Safely*)

Una guía para los patrones y los encargados de estaciones de gasolina. Delinea la gerencia apropiada del aceite usado para prevenir limpiezas costosas. En inglés en dorso.
15/02/2003

Número de pedido: EPA530-F-02-029S
Formulario de pedido: OSW

Cómo Manejar los Derrames de Aceite Usado de Motor (Spanish Translation of *Managing Oil Spills*)

El cartel esta diseñado para los empleados de las estaciones de gasolina en cómo se maneja los escapes y los derramamientos de aceite. En inglés en dorso.
15/02/2003

Número de pedido: EPA530-H-02-001S
Formulario de pedido: OSW

Compilation of Current Practices at Land Disposal Facilities: Summary of Liner and Leak Detection Designs, Action Leakage Rates, Response Action Plans, and Management of Liquids in Landfills

Summarizes results of a nationwide evaluation of hazardous waste land disposal facility permits. Presents information on liners, leak detection systems, and the treatment of liquids and use of absorbents at landfills. Identifies current designs and operational practices of land disposal facilities.
(EPA530-R-92-003) 01/15/1992

Order Number: PB92-128 206 *Order Form:* NTIS

Compilation of Persons Who Design, Test, Inspect, and Install Storage Tank Systems

Lists individuals and companies who provide one or more of the following services: assessment of the integrity of an existing tank system by an independent, qualified, registered professional engineer; assessments of new tank system design by independent, qualified, registered professional engineer; determination of the corrosion potential by an independent corrosion expert; and inspections for installation of new tank systems by an independent, qualified installation inspector or an independent, qualified, registered professional engineer.
(EPA530-SW-88-019) 02/29/1988

Order Number: PB88-197 611 *Order Form:* NTIS

Complex Recycling Issues: Strategies for Record-Setting Waste Reduction in Multi-Family Settings

Addresses the necessity and benefits of multi-family dwelling waste reduction programs. Discusses steps for implementing a successful program. Provides answers to typical questions on creating and maintaining a record-setting multi-family dwelling recycling program. Includes a series of fact sheets summarizing specific successful programs.

10/15/1999

Order Number: EPA530-F-99-022 **Order Form:** OSW

Composition and Management of Used Oil Generated in the United States

Characterizes used oil generation, management, and composition in the United States in 1983. Supports the development of used oil regulations and provides a framework for assessing the risks and benefits of alternative regulatory options.

(EPA530-SW-84-013)

11/15/1984

Order Number: PB85-180 297 **Order Form:** NTIS

Composition and Management of Used Oil Generated in the United States; Appendix

Presents comprehensive analytical database for more than 1,000 waste oil samples.

(EPA530-SW-84-013A)

11/15/1984

Order Number: PB88-111 752 **Order Form:** NTIS

Compost—New Applications for an Age-Old Technology (Kit Folder)

Addresses the environmental benefits of using compost: soil enrichment, pollution remediation, and pollution prevention. Contains a series of fact sheets: Innovative Uses of Compost: Bioremediation and Pollution Prevention; Innovative Uses of Compost: Erosion Control, Turf Remediation, and Landscaping; Innovative Uses of Compost: Disease Control for Plants and Animals; Innovative Uses of Compost: Composting of Soils Contaminated by Explosives; and Innovative Uses of Compost: Reforestation, Wetlands Restoration, and Habitat Revitalization.

10/15/1997

Order Number: EPA530-F-97-047 **Order Form:** OSW

Composting, Yard Trimmings, and Municipal Solid Waste

Examines planning, siting, designing, and operating composting facilities. Discusses planning; basic composting principles; collection methods; processing methods, technologies, and odor control; facility design and siting; environmental, health, and safety concerns; state legislation and initiatives; potential end-users; product quality and marketing; community involvement; and economics. Appendices include additional sources of information on composting, composting equipment, and a glossary of compost terms.

(EPA530-R-94-003)

05/15/1994

Order Number: PB94-163 250 **Order Form:** NTIS

Conditional Exemption for Mixed Waste Storage, Treatment, Transportation, and Disposal; Final Rule

Provides an overview of the mixed waste rule, which reduces the burden for compliance with EPA hazardous waste regulations and Nuclear Regulatory Commission radioactive waste regulations when managing low-level mixed waste. Contains details on storage and treatment exemptions and generator exemptions and requirements.

08/15/2002

Order Number: EPA530-K-02-002 **Order Form:** OSW

Construction and Demolition Waste Landfills

Presents information on C&D waste landfills. Discusses the composition of C&D wastes, including any hazardous materials or constituents. Provides information on the quality of C&D landfill leachate, based on sampling data taken from landfills around the country. Contains a detailed summary of state regulations pertaining to C&D facilities. Identifies states that have regulations related to ground-water monitoring, corrective action, location restrictions, and facility design, operation, closure, and/or postclosure care. Provides the specifics of those cap regulations.

(EPA530-R-95-018)

02/15/1995

Order Number: PB95-208 906 **Order Form:** NTIS

Construction Quality Assurance for Hazardous Waste Land Disposal Facilities; Technical Guidance Document

Provides guidance on construction quality assurance plan to be addressed during permit application procedure for hazardous waste land disposal facilities. Discussion includes responsibility and authority, construction quality assurance personnel qualifications, inspections activities, sampling strategies, and documentation.

(EPA530-SW-86-031) 10/15/1986

Order Number: PB87-132 825 Order Form: NTIS

The Consumer's Handbook for Reducing Solid Waste

Describes how consumers can reduce their garbage production by making environmentally aware decisions about the products and packaging they purchase, use, and ultimately dispose of. Suggestions follow four basic principles: reduce, reuse, recycle, and respond. Also lists state environmental agencies, as well as other publications and sources. Also available in Spanish.

09/15/1996

Order Number: EPA530-K-96-003

Order Number: EPA530-K-92-003S Order Form: OSW

Copy Paper Caper (Poster)

Encourages less photocopying.

04/15/1994

Order Number: EPA530-H-94-002 Order Form: OSW

Corrective Measures for Releases to Groundwater from Solid Waste Management Units; Draft Final Report

Provides guidance for identifying mechanisms to correct releases from SWMUs to ground water. Supplies an overview of control and treatment technologies in hydro-geologic settings, discusses case studies, and provides recommendations for the application of corrective measures to ground-water releases from SWMUs.

(EPA530-SW-88-020) 08/15/1985

Order Number: PB88-185 251 Order Form: NTIS

Corrective Measures for Releases to Soil From Solid Waste Management Units; Draft Final Report

Discusses various types of removal, containment, and treatment technologies applicable to the remediation of releases to soils from SWMUs. Provides an overview of corrective action technologies, discusses case studies, and includes recommendations for the application of corrective measures to soils from SWMUs.

(EPA530-SW-88-022) 08/15/1988

Order Number: PB88-185 277 Order Form: NTIS

Corrective Measures for Releases to Surface Waters; Draft Final Report

Provides guidance for identifying mechanisms to correct releases from SWMUs to surface water. Provides an overview of corrective action technologies, discusses case studies, and advises on the selection of corrective measures to surface water from SWMUs.

(EPA530-SW-90-085) 08/15/1985

Order Number: PB91-102 046 Order Form: NTIS

Corrosivity Characteristic (40 CFR 261.22); Identification and Listing of Hazardous Waste Under RCRA, Subtitle C, Section 3001

Explains EPA's definition of corrosive waste, discusses comments received on the EPA's proposed definition of corrosive waste, and the changes made in response to comments. Includes the rationale for the proposed characteristic of corrosivity for identification and listing of hazardous waste as well as the test methods used to make that determination.

05/01/1980

Order Number: PB81-184 319 Order Form: NTIS

Cost and Economic Impact Analysis of Land Disposal Restrictions for Newly Listed Wastes and Contaminated Debris (Phase I LDRs); Final Rule

Analyzes the costs and economic impacts of the LDRs for newly identified wastes and hazardous debris. Examines wastes affected by the rule and containment buildings. Considers the costs of restricting the land disposal of Phase I wastes. Discusses limitations to the cost and economic analysis.

(EPA530-R-95-030)

06/30/1992

Order Number: PB95-230 900

Order Form: NTIS

Cost and Economic Impact Analysis of the Conditionally Exempt Small Quantity Generator (CESQG) Rulemaking

Presents the cost and economic impact analysis developed for EPA's rule on nonmunicipal solid waste disposal facilities that receive CESQG hazardous wastes. Discusses parties affected by this rulemaking and potential effects on small businesses.

(EPA530-R-96-014)

06/15/1996

Order Number: PB96-190 707

Order Form: NTIS

Cost and Economic Impact Analysis of the Conditionally Exempt Small Quantity Generator (CESQG) Rulemaking

Presents the cost and economic impact analysis developed for EPA's rule on nonmunicipal solid waste disposal facilities that receive CESQG hazardous wastes. Discusses parties affected by this rulemaking and potential effects on small businesses.

(EPA530-R-96-014)

06/15/1996

Order Number: PB96-190 707

Order Form: NTIS

Cover Up with Compost

Fact sheet addressing the use of compost as a landfill cover to reduce methane emissions. Describes a pilot project at Waste Management, Inc.'s Outer Loop Recycling and Disposal Facility in Louisville, Kentucky. Discusses benefits and challenges of this technique. Also available in the kit folder *Climate Change and Waste*.

07/15/2002

Order Number: EPA530-F-02-022

Order Form: OSW

Criteria for Identifying Areas of Vulnerable Hydrogeology Under RCRA (Complete Set)

Provides RCRA permit writers with a standardized technical method for evaluating hydrogeologic data submitted in permit applications for hazardous waste land TSDFs. The methodology determines if facilities are located in areas of vulnerable hydrogeology.

07/15/1986

Order Number: PB86-224 946

Order Form: NTIS

Criteria for Identifying Areas of Vulnerable Hydrogeology: A RCRA Statutory Interpretative Guidance

Provides RCRA permit writers with a standardized technical method for evaluating hydrogeologic data submitted in permit applications for hazardous waste land TSDFs. The methodology determines if facilities are located in areas of vulnerable hydrogeology.

(EPA530-SW-86-022)

07/15/1986

Order Number: PB86-224 953

Order Form: NTIS

Criteria for Identifying Areas of Vulnerable Hydrogeology Under RCRA; Appendix A: Technical Methods for Evaluating Hydrogeologic Parameters

Discusses methods available for the determination of fluid conductivity under field conditions. Determines effective porosity and hydraulic gradient.

(EPA530-SW-86-022A)

07/15/1986

Order Number: PB86-224 961/AS

Order Form: NTIS

Criteria for Identifying Areas of Vulnerable Hydrogeology under RCRA; Appendix B: Groundwater Flow Net/Flow Line Construction and Analysis

Describes methods used to characterize hydraulic conductivity, determination of effective porosity, and determination of hydraulic porosity. Considerations are given to well construction and development, data interpretation and test selection considerations, and single well tests.

(EPA530-SW-86-022B)

07/15/1986

Order Number: PB86-224 979/AS

Order Form: NTIS

Criteria for Identifying Areas of Vulnerable Hydrogeology Under RCRA; Appendix C: Technical Methods for Calculating Time of Travel in the Unsaturated Zone

Describes methods for calculating ground-water time of travel in the unsaturated zone. Designed for hazardous waste facility permit applicants and writers in evaluating vulnerability of ground-water contamination. Two general approaches are given. Includes review of general theory of ground-water flow in the unsaturated zone and describes processes. Presents equations.

(EPA530-SW-86-022C) 07/15/1986

Order Number: PB86-224 987/AS Order Form: NTIS

Criteria for Identifying Areas of Vulnerable Hydrogeology Under RCRA; Appendix D: Development of Vulnerability Criteria Based on Risk Assessments and Theoretical Modeling

Identifies locations where the potential of exposure to hazardous waste or waste constituents could be significant due to the absence of engineered containment barriers, monitoring, or response activities. Case studies illustrate TOT 100 criteria and health-risk assessment for ground-water resource pathway.

(EPA530-SW-86-022D) 07/15/1986

Order Number: PB86-224 995/AS Order Form: NTIS

Criteria for Identifying Characteristics of Hazardous Waste (40 CFR 261.10); Criteria for Listing Hazardous Waste (40 CFR 261.11); Petitions to Amend Part 261 to Exclude a Waste Produced at a Particular Facility (40 CFR 260.22); Identification and Listing of Hazardous Waste Under RCRA, Subtitle C, Section 3001

Describes the basis and purpose used in establishing final criteria for identifying characteristics of hazardous waste, criteria for listing hazardous waste, and procedures for delisting hazardous wastes.

04/01/1980

Order Number: PB86-224 995/AS Order Form: NTIS

Criteria for Municipal Solid Waste Landfills: Case Studies on Groundwater and Surface Water Contamination from Municipal Solid Waste Landfills

Describes basis for 40 CFR Part 258 Subtitle D. Presents information on ground-water and surface-water contamination from MSW landfill case studies. Identifies and describes human health and environmental impacts from landfills.

(EPA530-SW-88-040) 07/15/1988

Order Number: PB88-242 466 Order Form: NTIS

Criteria for Municipal Solid Waste Landfills: Closure and Postclosure Care and Financial Responsibility Requirements (Subpart C, Sections 258.30-258.32); Draft Background Document

Discusses background information and provides detailed information on revised closure and postclosure care and financial responsibility requirements. Addresses performance standards, plans, and financial assurance criteria as well as mechanisms available to owners and operators of MSW landfills.

(EPA530-SW-88-041) 07/15/1988

Order Number: PB88-242 474 Order Form: NTIS

Criteria for Municipal Solid Waste Landfills: Design Criteria (Subpart D); Draft Background Document

Provides technical support for 40 CFR Part 258 and discusses background information leading to development of categorical rule option. Provides detailed information on revised design criteria. Discusses general development and various design options including: how a design standard was selected and considered, how location specific considerations are involved, and what methodologies are available for meeting design performance standards.

Provides landfill designs that specifically address liners, leachate collection systems, and final covers.

(EPA530-SW-88-042) 07/15/1988

Order Number: PB88-242 482 Order Form: NTIS

Criteria for Municipal Solid Waste Landfills: Groundwater Monitoring and Corrective Action (Subpart E)

Provides detailed information on development and implementation of ground-water monitoring and corrective action requirements. Options for groundwater monitoring and corrective action programs are discussed and EPA rationale is explained. When available, data are presented to support decisions.

(EPA530-SW-88-043) 07/15/1988

Order Number: PB88-242 490 **Order Form: NTIS**

Criteria for Municipal Solid Waste Landfills: Location Restrictions (Subpart B); Draft Background Document

Presents revision of 40 *CFR* Part 257 for facilities that may receive HHW or hazardous waste from SQGs. Includes the initial limitation to MSW landfills. Provides legislative and regulatory background and status. Addresses federal laws that impact design, operation, and location of MSW landfills. Contains detailed information on the development of standards addressing restricted locations.

(EPA530-SW-88-036) 07/15/1988

Order Number: PB88-242 425 **Order Form: NTIS**

Criteria for Municipal Solid Waste Landfills: Operating Criteria (Subpart C); Draft Background Document

Determines operating criteria for MSW landfills. Includes procedures for cover material, disease vectors, explosive gas, air criteria, access, excluding receipt of hazardous waste, run-on and run-off controls, surface water, liquids restrictions, and recordkeeping.

(EPA530-SW-88-037) 07/15/1988

Order Number: PB88-242 433 **Order Form: NTIS**

Criteria for Municipal Solid Waste Landfills: Summary of Data on Municipal Solid Waste Landfill Leachate Characteristics

Presents information on the character of leachate from MSW landfills. Based on study of existing leachate data as directed by 40 *CFR* Part 257 for facilities that might receive HHW and waste from SQGs.

(EPA530-SW-88-038) 07/15/1988

Order Number: PB88-242 441 **Order Form: NTIS**

Criteria for Municipal Solid Waste Landfills: Updated Review of Selected Provisions of Solid Waste Regulations

Provides analysis of the differences between proposed criteria and current state regulations that classify solid waste disposal facilities and practices. EPA is initially limiting criteria revisions to MSW landfills because they are the only facilities for which the Agency has complete and reliable data.

(EPA530-SW-88-039) 07/15/1988

Order Number: PB88-242 458 **Order Form: NTIS**

Criteria for Solid Waste Disposal Facilities: A Guide for Owners/Operators

Provides owners and operators of MSW landfills basic information on the Subtitle D regulations. Examines these regulations and issues of location, operation, design, groundwater monitoring, corrective action, closure, and financial assurance.

03/15/1993

Order Number: EPA530-SW-91-089 **Order Form: OSW**

Cutting-Edge Software to Cut Emissions

Fact sheet comparing three waste management tools: the WAste Reduction Model (WARM), Cities for Climate Protection (CPP) Campaign Greenhouse Gas Emission Software, and the MSW Decision Support Tool (DST). Also available in the kit folder *Climate Change and Waste*.

07/15/2002

Order Number: EPA530-F-02-024 **Order Form: OSW**

Cutting the Waste Stream in Half: Community Record-Setters Show How (Report)

Describes the creation of the Waste Reduction Record-Setters Project by the Institute for Local Self-Reliance, in cooperation with the EPA. Identifies successful waste reduction programs in communities, businesses, and other organizations and encourages their replication. Explains methodology used. Addresses keys to residential and institutional/commercial program success, cost-effectiveness, tips for replication. Includes tables, figures, list of abbreviations, and definitions of terms used in the report. (530-R-99-013) 06/15/1999

Order Number: PB2000-105 541 **Order Form:** NTIS

Cutting the Waste Stream in Half: Community Record-Setters Show How (Summary Packet)

Highlights record-setting waste reduction programs in 18 communities and summarizes information presented in the report listed above. Contains some questions and answers about reaching record-setting levels. Provides an overview of each community's program, key factors contributing to high waste reduction, cost-effectiveness of the program, tips for replication, and charts and tables showing demographics for the community, a summary of the residential program, residential waste generation per household per day, and materials recovered. Includes a contact for each program. 10/15/1999

Order Number: EPA530-F-99-017 **Order Form:** OSW

Damage Cases and Environmental Releases from Mines and Mineral Processing Sites

Discusses environmental releases and damages from the mining and mineral processing industry. Presents the methodology used in developing the environmental release cases. Provides summaries illustrating recent mining and mineral processing damage cases in a variety of mineral commodity sectors and states. Describes the general source of constituent releases and provides supporting information on the nature and severity of any resulting environmental damages. Appendix contains comments and responses to damage summaries. (EPA 530-R-99-023) 04/15/1998

Order Number: PB99-155 988 **Order Form:** NTIS

Damage Cases: Construction and Demolition Waste Landfills

Presents the results of a study conducted to determine whether the disposal of C&D debris in landfills has led to contamination of ground water, surface water, or ecological resources. Examines whether these environmental damages can be attributed to specific aspects of the site, such as the type of waste received, design and operating practices, and environmental setting and location. Presents 11 damage cases. Summarizes the types of damages found at these landfills and discusses the possible link between these damages and site operation, design, and location. (EPA530-R-95-020) 01/15/1995

Order Number: PB95-208 922 **Order Form:** NTIS

Decision-Makers' Guide to Solid Waste Management; Second Edition

Expands the information provided in the 1989 edition. Offers solid waste management practitioners more detailed information to understand the key technical, economic, political, and social issues that must be addressed to develop effective waste management programs. Sections address public education and involvement, facility siting, factors to consider in developing a waste management program, collection and transfer, source reduction, recycling, composting, combustion, and land disposal. Includes glossary. 08/15/1995

Order Number: EPA530-R-95-023 **Order Form:** OSW

Definitions and General Provisions under RCRA, Subtitle C; Definitions and Provisions for Confidentiality (40 CFR 260, Subparts A and B)

Supports EPA's definitions of terms describing activities subject to control under Sections 3001 through 3004 of RCRA. General and special procedures are delineated, and rules of grammatical construction are given. Summarizes status of 130 proposed definitions and 32 definitions that have been added to final rules. 04/15/1980

Order Number: PB81-181 489 **Order Form:** NTIS

Degree of Hazard as an Approach to Defining and Managing Hazardous Wastes; Identification and Listing of Hazardous Waste under RCRA, Subtitle C, Section 3001

Presents the degree of hazard as approach to defining and managing hazardous wastes under authority of Subtitle C, RCRA. Premise rests on hazardous wastes defined and grouped according to degree of hazard. Provides a summary of comments to proposed regulation and EPA's responses, including rationale for final regulations.

04/01/1980

Order Number: PB81-188 161

Order Form: NTIS

Desechos Domésticos Peligrosos: Pasos Para un Manejo Seguro (Spanish Translation of *Household Hazardous Waste: Steps to Safe Management*)

Describe los desechos domésticos peligrosos y los riesgos de una eliminación incorrecta. Urge a los dueños de casa a reutilizar, reciclar, y manipular correctamente los desechos caseros peligrosos.

15/12/1996

Número de Pedido:

EPA530-F-92-031S

Formulario de Pedido:

OSW

Design and Development of a Hazardous Waste Reactivity Testing Protocol

Contains the test protocol to assess gross chemical composition of waste materials at uncontrolled hazardous waste sites. Includes a field test kit, flow diagrams, and a manual for using flow diagrams and test procedures.

History of the protocol's development and trial is noted. (EPA600/2-84-057)

02/01/1984

Order Number: PB84-158 807

Order Form: NTIS

Design, Construction, and Evaluation of Clay Liners for Waste Management Facilities

Compiles technical information on design, construction, and evaluation of clay liners for waste landfills, surface impoundments, and waste piles. Discusses clays and their composition, fabric, and hydraulic conductivity. Other topics include geotechnical test methods and soil properties, clay chemical compatibility, construction and quality assurance, performance of existing clay liners, and clay liner transit time prediction methods.

(EPA530-SW-86-007F)

11/15/1988

Order Number: PB89-181 937

Order Form: NTIS

Determining the Integrity of Concrete Sumps; Technical Guidance Document

Recommends and explains procedures for assessing the structural integrity of concrete hazardous waste sumps. Describes mechanisms of failure, investigatory steps, and repair and prevention.

(EPA530-R-93-005)

08/15/1991

Order Number: PB93-154 631

Order Form: NTIS

Developing Your Leader Program

Flyer providing suggestions for leaders in the Coal Combustion Products Partnership program to educate their organizations about the beneficial use of coal combustion products.

10/15/2003

Order Number: EPA530-F-03-054

Order Form: OSW

Development of a Solid Sample Analytical Procedure for Cyanide in Spent Ore

Explores three methods used to test cyanide levels in tailings from heap leach cyanidation facilities for mining gold and silver. Establishes that bottle-roll tests give the closest approximation of cyanide levels in ore samples and best chances for predicting levels of cyanide in leachate from depositories. Presents detailed analytical results.

(EPA530-R-92-006)

06/07/1991

Order Number: PB93-203 496

Order Form: NTIS

Directory of Mine Waste Characterization and Drainage Quality Contacts in Western Governors' Association Member States

Lists contacts with access to information on metal mine waste characterization, metal mine drainage quality, and drainage quality prediction for each of the 21 Western Governors' Association member states.
(EPA530-R-92-007) 09/01/1991

Order Number: PB92-180 108 **Order Form: NTIS**

Diversión en la Feria Científica: Diseñando Proyectos Científicos Ambientales (Spanish Translation of Science Fair Fun: Designing Environmental Science Projects)

Le presenta ha los estudiantes en los grados 6-8 ideas y recursos para desarrolliar proyectos ambientales en ferias científicas con un enfoco specifico en reduciendo, reusando, y reciclando materiales desperdisiables. Define ha la EPA y ha la vez presenta proyectos ejemplarios y sujerencias sobre experimentos. *Su Vida, Su Mundo, Sus Opiniones: Todo Lo Que Haga Puede Hacer una Diferencia Kit*
15/01/2002

Número de pedido: EPA530-K-00-008S
Formulario de pedido: OSW

Donating Surplus Food to the Needy (WasteWise Tip Sheet)

Addresses the donation of surplus food as part of a waste reduction program. Presents the two types of food donation programs: traditional food banks and prepared and perishable food programs. Also discusses food program services, donor responsibilities, and common concerns. Highlights successful programs by Hallmark and Coca-Cola. Includes resources.

09/15/1996

Order Number: EPA530-F-96-038 **Order Form: OSW**

Don't Throw Away That Food: Strategies for Record-Setting Waste Reduction

Defines food discards, presents reasons and benefits for recovering food discards, and describes recovery options for commercial and institutional food discard generators. Provides answers to questions about running a food recovery program. Presents food recovery tips from record-setters and for solid waste planners. Includes resources. Fact sheets profile specific food recovery programs and include a detailed description, program summary, costs and benefits, tips for replication, and contacts for additional information.

09/15/1998

Order Number: EPA530-F-98-023 **Order Form: OSW**

Don't Trash It: Super Fun

Utilizes MSW terms and issues in games and puzzles for elementary school children. Developed with and originally published in National Geographic World.

08/15/1995

Order Number: EPA530-K-95-005 **Order Form: OSW**

Draft Paper Products RMAN [Recovered Materials Advisory Notice]; Supporting Analyses

Explains EPA's objectives, EPA's process for designating procurement items and recommending procurement processes for those items, and EPA's methodology for recommending recovered materials content levels for paper and paper products. Discusses draft recommendations for newsprint, tissue products, paperboard and packaging, and printing and writing papers. Addresses other paper issues, including definitions, measurement of recovered materials content, recyclability, and use of EPA's recommendations.

03/15/1995

Order Number: EPA530-D-95-001 **Order Form: OSW**

Economic Impact Analysis for Proposed Comprehensive Procurement Guideline IV

Presents EPA analytical requirements under Executive Order 12866 and EPA requirements under the Unfunded Mandates Act of 1995. Provides background information on the regulations governing CPG and general provisions of CPG IV. Summarizes benefits and costs. Addresses the universe of entities affected by the rule. Includes cost analysis methodology. Discusses the price differential between recycled and virgin products.

03/15/2001

Order Number: EPA530-R-01-008 *Order Form: OSW*

Economic Impact Assessment of the Phase IV Land Disposal Restrictions Final Rule on Newly Identified Wood Preserving Hazardous Wastes Contaminated Media and Abandoned Wood Preserving Sites

Estimates the incremental cost of the Phase IV LDR final rule for newly identified mineral-processing wastes on hazardous waste cleanups of contaminated media at inactive and abandoned wood preserving sites. Focuses on wood preserving contaminated soils.

(EPA530-R-97-031) 04/15/1997

Order Number: PB97-176 960 *Order Form: NTIS*

Electronics: A New Opportunity for Waste Prevention, Reuse, and Recycling

Discusses reasons for preventing electronics waste, how to reduce electronics waste, reusing and donating electronics, recycling electronics, buying green, and what EPA is doing to encourage reuse, recycling, and greener purchasing of electronics. Includes list of useful publications and organizations.

06/15/2001

Order Number: EPA530-F-01-006 *Order Form: OSW*

Engineering and Environmental Aspects of Recycled Materials for Highway Construction

Evaluates the environmental aspects and engineering factors related to the utilization of recycled materials in highway construction. Presents an overview and assessment of different technologies, processes, and methods of recycling various materials into highway appurtenances and for highway construction with consideration of environmental health risks. Includes bibliography. Appendix to Report to Congress: A Study of the Use of Recycled Paving Material.

(EPA530-R-93-013a) 06/15/1993

Order Number: PB94-100 443 *Order Form: NTIS*

Engineering Handbook for Hazardous Waste Incineration

Documents hazardous waste incineration operations for federal, regional, and state EPA officials as well as designers, owners, and operators of hazardous waste incineration facilities, and the general technical community. Compiles topical literature and describes current state-of-the-art technology for hazardous waste incineration.

(EPA SW-889) 09/01/1981

Order Number: PB81-248 163 *Order Form: NTIS*

Enhancing Facility-Community Relations

Addresses the importance for facilities to maintain continuous, strong relationships with neighboring communities throughout their operation and after closure. Provides suggestions for how a facility can improve the community's well-being, enhance dialogue with the community, assure communities that it hears and will address their concerns, and ways the facility can continually enrich and improve the community's quality of life.

09/15/2002

Order Number: EPA530-F-02-037 *Order Form: OSW*

***Environmental Fact Sheet: Amendments to CAMU Rule Proposed**

Lists the primary proposed amendments to the 1993 Corrective Action Management Unit (CAMU) rule. Provides additional detail for managing hazardous clean-up wastes in CAMUs. The amendments are expected to achieve the Agency's general goals for CAMUs making them clearer, the process more consistent, and predictable, as well as more explicit for the public. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/ca/resource/guidance/remwaste/camu/acap_fs.pdf>.

08/15/2000

Order Number: EPA530-F-00-029 Order Form: OSW

Environmental Fact Sheet: Assurance Mechanisms Finalized for Local Government Owners of Municipal Solid Waste Landfills

Addresses promulgation of the local government financial test, proposed in response to comments from local governments requesting flexibility in meeting the financial assurance requirements of the solid waste disposal facility criteria. Provides an overview of the requirements for owners and operators of MSW landfills to demonstrate financial responsibility for certain costs associated with their landfills.

11/15/1996

Order Number: EPA530-F-96-018 Order Form: OSW

Environmental Fact Sheet: Controlling the Impacts of Remediation Activities in or Around Wetlands

Provides technical information useful in protecting wetlands from the potential negative impacts caused by more common technologies used to remediate hazardous waste sites. Addresses waste excavation and surface reconfiguration, pumping and treating ground water, and landfill capping and runoff diversions.

08/15/1993

Order Number: EPA530-F-93-020 Order Form: OSW

***Environmental Fact Sheet: Deferral of Phase IV Standards for PCBs as an Underlying Hazardous Constituent in Soil**

Describes EPA's proposal to temporarily defer the portion of the rule applying LDR under RCRA to soils contaminated with polychlorinated biphenyls (PCBs), as underlying hazardous constituents, that exhibit the toxicity characteristic for metals. Explains that this action is needed because the existing regulation is discouraging remediation of contaminated soils, contrary to EPA's intent of promulgating alternative treatment standards for contaminated soils. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/ldr/pcbp-fs.pdf>.

02/15/2000

Order Number: EPA530-F-00-008 Order Form: OSW

Environmental Fact Sheet: Entry Into Force of the Basel Convention

Describes the 1992 Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal, the first major international agreement addressing imports and exports of hazardous wastes, household wastes, and household waste combustion ash. Currently, 20 countries have ratified the Basel Convention.

04/15/1992

Order Number: EPA530-F-92-007 Order Form: OSW

Environmental Fact Sheet: EPA Determines That Ash from Waste-to-Energy Facilities Is Subject to Hazardous Waste Regulations upon Exiting the Combustion Building

Discusses the U.S. Supreme Court's interpretation of Section 3001(I) of RCRA and provides a statutory determination. Designates that a hazardous waste determination should be made when ash exits the combustion building following the combustion and air pollution control processes. Allows combining bottom ash and fly ash before making a hazardous waste determination.

01/15/1995

Order Number: EPA530-F-95-004 Order Form: OSW

***Environmental Fact Sheet: EPA Discontinues Action on 1990 Subpart S Proposal**

Announces EPA's partial withdrawal of the 1990 proposed regulations for the corrective action program provisions. Explains how EPA intends to promote a results-based approach to the corrective action program, thereby improving the efficiency of cleanups at hazardous waste facilities. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/ca/resource/guidance/gen_ca/subparts/casw-fs.pdf>.

10/15/1999

Order Number: EPA530-F-99-042 Order Form: OSW

Environmental Fact Sheet: EPA Finalizes Regulations under RCRA for Military Munitions

Summarizes the final regulations clarifying when conventional and chemical military munitions become a hazardous waste under RCRA. It summarizes the regulatory definition of solid waste as it applies to three specific categories of military munitions: unused munitions, munitions being used for their intended purpose, and used or fired munitions.

02/15/1997

Order Number: EPA530-F-97-004 Order Form: OSW

Environmental Fact Sheet: EPA Implements the OECD Decision on Transfrontier Movements of Recyclable Wastes

Announces the codification of the requirements of the Organization for Economic Cooperation and Development Council decision on the transfrontier movements of recyclable wastes as it will be implemented in the United States. The council's decision ensures that the recovery of materials from wastes can continue in an international economy and that the shipments will be managed in an efficient and environmentally sound manner.

04/15/1996

Order Number: EPA530-F-95-027 Order Form: OSW

Environmental Fact Sheet: EPA Issues Final Rules for Corrective Action Management Units and Temporary Units

Announces EPA revision of the corrective action-related regulations under RCRA Subtitle C. Addresses the time and cost difficulties associated with managing remediation wastes. Introduces corrective action management units and temporary units for remediation wastes in an effort to ease corrective action.

03/15/1993

Order Number: EPA530-F-93-001 Order Form: OSW

Environmental Fact Sheet: EPA Issues Interim Final Regulations on the "Mixture" and "Derived-From" Rules

Announces reinstatement of "mixture" and "derived-from" rules governing the management of hazardous waste on an interim basis. Also opens public comment on this issue.

02/15/1992

Order Number: EPA530-F-92-002 Order Form: OSW

Environmental Fact Sheet: EPA Issues New Treatment Standards for Certain Ignitable and Corrosive Wastes

Announces an interim final rule that replaces the treatment standard of deactivation for certain ignitable and corrosive wastes. Announces new standards that include numerical treatment standards for hazardous constituents of these wastes. Ruling is intended to bring the deactivation standard for ignitable and corrosive wastes into full compliance with RCRA.

05/15/1993

Order Number: EPA530-F-93-007 Order Form: OSW

***Environmental Fact Sheet: EPA Promulgates Listing Determination for Certain Wastes from the Production of Chlorinated Aliphatics**

Lists as hazardous two of six wastes generated by the chlorinated aliphatics industry. The two wastes are K174, wastewater treatment sludge from the production of ethylene dichloride, or vinyl chloride monomer (EDC/VCM); and K175 wastewater treatment sludge from the production of vinyl chloride monomer using mercuric chloride catalyst in an acetylene-based process. Under the contingent management listing determination, the waste will not be listed as a hazardous waste if sent to a specific type of management facility. Also, describes the criteria provided in 40 CFR 261.11 for determining whether waste is a “substantial, present, or potential hazard to human health and the environment.” Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/id/chorali/calf-fs.pdf>.

N11/15/2000

Order Number: EPA530-F-00-033 Order Form: OSW

Environmental Fact Sheet: EPA Proposes Modifications to the Definition of Wastewater Treatment Unit

Proposes the exclusion of devices with thermal treatment processes as wastewater treatment units, except for sludge dryers. Maintains EPA’s long-standing policy that thermal treatment units must be individually permitted under RCRA. Public comment is requested.

07/15/1990

Order Number: EPA530-SW-90-030 Order Form: OSW

***Environmental Fact Sheet: EPA Proposes Rule To Allow States To Issue Research Development and Demonstration Permits For Municipal Solid Waste Landfills**

Announces EPA’s proposal to add new provisions to the Criteria for Municipal Solid Waste Landfills (MSWLFs) that will allow approved states to issue research, development and demonstration permits for landfill operations in order to stimulate the development of new technologies and alternative operational processes for the landfilling of municipal solid waste. Will allow State Directors of approved states to issue permits waiving specific requirements of the municipal solid waste landfill criteria in order to promote innovative technologies, provided landfill operators demonstrate there will be no increased risk to human health or the environment. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/muncpl/mswlficr/factsheet.pdf>.

06/15/2002

Order Number: EPA530-F-02-013 Order Form: OSW

***Environmental Fact Sheet: EPA Proposing to Allow Waste as an Energy Source for Synthesis Gas Production and Power Generation**

Announces EPA’s proposal to conditionally exclude, from RCRA’s definition of solid waste hazardous, secondary materials that are processed in gasification systems to manufacture synthesis gas. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/gas-fs.pdf>.

02/15/2002

Order Number: EPA530-F-02-015 Order Form: OSW

***Environmental Fact Sheet: EPA Requests Information on Bioreactor Landfills and Performance of Alternative Liners for Landfills When Leachate is Recirculated**

Announces that EPA is considering revisions to the Criteria for Municipal Solid Waste Landfills (40 CFR Part 258) with respect to the use of alternative liners when landfill leachate is recirculated and with respect to allowing the operation of landfills as more advanced bioreactors. Requests information from the public on these types of landfill processes. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/muncpl/landfill/alpa-fs.pdf>.

05/15/2000

Order Number: EPA530-F-00-023 Order Form: OSW

Environmental Fact Sheet: EPA Sets Degradability Standards for Plastic Ring Carriers

Announces EPA's promulgation of standards of photodegradability for plastic ring carrier devices, commonly used on beverage cans. Provides two options for testing ring carriers to demonstrate that they degrade. Encourages development of biodegradable plastics.
02/15/1994

Order Number: EPA530-F-94-009 Order Form: OSW

*Environmental Fact Sheet: EPA's Comprehensive Review of the Treatment Standards for Mercury-Bearing Hazardous Waste

Announces EPA's comprehensive review of the standards governing how mercury-bearing hazardous waste is treated prior to land disposal. Presents for public review and comment EPA's data on mercury-bearing hazardous waste, a series of technical and policy issues regarding mercury waste treatment, and potential avenues by which current mercury treatment standards might be revised. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/ldr/mercury/fs-merc.pdf>
05/15/1999

Order Number: EPA530-F-99-021 Order Form: OSW

Environmental Fact Sheet: EPA's Final Conditional No-Migration Determination for DOE's Waste Isolation Pilot Plant (WIPP)

Allows the U.S. Department of Energy to place limited amounts of waste in a Waste Isolation Pilot Plant repository for testing and experimentation.
11/15/1990

Order Number: EPA530-SW-91-026 Order Form: OSW

*Environmental Fact Sheet: Final HWIR-Media Rule

Announces EPA's final rule, which sets new requirements under RCRA for hazardous and remediation wastes that are treated, stored, or disposed of during cleanup actions. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/id/hwirmdia/hwirfact.pdf>

11/15/1998

Order Number: EPA530-F-98-029 Order Form: OSW

Environmental Fact Sheet: Final Rule for Third Third Scheduled Wastes Completes Statutory Requirements for Land Disposal Restrictions

Explains the fifth in series of five land disposal rulemakings. establishes treatment standards and effective dates for Third Third wastes, including characteristic wastes and soft hammer wastes from First and Second Third lists. Treatment standards apply to hazardous wastes that are land disposed, including those injected into deep wells.
05/08/1990

Order Number: EPA530-SW-90-046 Order Form: OSW

Environmental Fact Sheet: Final Rule to Eliminate Mineral Processing Wastes From the Bevill Amendment

Promulgates high-volume and low-hazard criteria for determining which mineral processing wastes keep exempt status under Bevill exclusion. Defines processing wastes as opposed to beneficiation wastes, which are subject to regulation as a solid waste under Subtitle D.
08/15/1989

Order Number: EPA530-SW-89-062 Order Form: OSW

Environmental Fact Sheet: Final Rule to Identify the Status of Twenty Mineral Processing Wastes Conditionally Retained within the Bevill Amendment

Identifies the five wastes removed from exclusion and the 15 wastes remaining within exclusion. Wastes no longer covered by Bevill exclusion will be evaluated for hazardous characteristics. Wastes exhibiting one or more characteristics of hazardous waste must be managed according to RCRA Subtitle C requirements.

01/15/1990

Order Number: EPA530-SW-90-013 Order Form: OSW

Environmental Fact Sheet: Final Standards for Hazardous Waste Combustors—Phase I

Describes EPA’s final standards for four items in the first phase of finalizing its proposal to revise the air emission standards for certain units that combust hazardous wastes (i.e., hazardous waste generators, hazardous waste burning incinerators, cement kilns, and light-weight aggregate kilns.

05/15/1998

Order Number: EPA530-F-98-008 Order Form: OSW

***Environmental Fact Sheet: Final Standards Promulgated for Petroleum Refining Waste**

Announces EPA’s final rule to add four new hazardous waste codes for petroleum refining wastes to its current list of hazardous waste codes. Finalizes treatment standards under LDR for these wastes. Also promulgates several exclusions related to the petroleum refining industry. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/id/petroleum/petrofs6.pdf>.

07/15/1998

Order Number: EPA530-F-98-014 Order Form: OSW

Environmental Fact Sheet: Final Streamlined Regulations for Collecting and Managing Universal Wastes

Announces the promulgation of streamlined hazardous waste regulations to make it easier for consumers and businesses to recycle batteries, pesticides, and mercury-containing thermostats, referred to as “universal wastes,” while ensuring their safe collection, recycling, handling, and treatment.

05/15/1995

Order Number: EPA530-F-95-011 Order Form: OSW

Environmental Fact Sheet: Finalization of Hazardous Waste Identification Rule (HWIR)

Gives background on the mixture and derived-from rules and defines both the mixture rule and the derived rule. Explains the reason for the revision. In addition, details two new exemptions that narrow the scope of these rules, tailoring them to match the risks proposed by particular waste. An exemption for wastes listed solely for ignitability, corrosivity, and/or reactivity characteristics, and conditional exemption for mixed wastes.

05/15/2001

Order Number: EPA530-F-01-009 Order Form: OSW

***Environmental Fact Sheet: Hazardous Waste Listing Determination for Two Dye and Pigment Wastes**

Announces EPA’s proposal of concentration-based listings for two deferred dye and pigment wastes. Explains that listing determinations are based on risk assessment results that show certain concentration levels of constituents contained in these wastes may pose potential hazards to human health when disposed in landfills. Details EPA’s decision not to list wastewater treatment sludge from the production of anthraquinone dyes and pigments. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/id/dyes/dyes-fs.pdf>.

07/15/1999

Order Number: EPA530-F-99-037 Order Form: OSW

Environmental Fact Sheet: Hazardous Waste Manifest System to be Streamlined

Details a proposal to improve the Uniform Hazardous Waste Manifest system by automating procedures and standardizing the manifest form. Describes the options for using an electronic manifest, and explains how the new process works. Also describes the impact this proposal will have on business.

01/15/2001

Order Number: EPA530-F-01-003 **Order Form:** OSW

***Environmental Fact Sheet: Ideas to Reduce Reporting Requirements at Hazardous Waste Facilities**

Announces EPA's ideas for streamlining its hazardous waste reporting and recordkeeping requirements. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/data/burdenreduction/ibra-fs.pdf>.

06/15/1999

Order Number: EPA530-F-99-036 **Order Form:** OSW

***Environmental Fact Sheet: Interim Emission Standards for 1999 Hazardous Waste Combustor Rule**

Summarizes EPA's interim air emission standards and revised compliance provisions for hazardous waste combustion sources as a result of a consensus settlement of issues among the environmental and regulated communities and EPA. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/combust/202fins.pdf>.

02/15/2002

Order Number: EPA530-F-02-008 **Order Form:** OSW

Environmental Fact Sheet: Land Disposal Restrictions—Second Third (Final)

Discusses EPA's final approach to implementing land disposal restrictions of Second Third hazardous wastes. Rule establishes treatment standards based on performance of BDAT, and specifies when standards will be effective.

06/15/1989

Order Number: EPA530-SW-89-046 **Order Form:** OSW

***Environmental Fact Sheet: Low-level Mixed Waste Conditionally Exempt from Hazardous Waste Regulation**

Describes a final rule that provides flexibility to duly licensed NRC generators to treat, store, and/or dispose of certain mixed waste without a RCRA permit. The Agency is exempting low-level mixed waste (LLMW) from RCRA storage and treatment requirements, and LLMW or Naturally Occurring and/or Accelerator-produced Radioactive Material (NARM) from RCRA transportation and disposal requirements. This exemption applies to mixed waste stored and treated in tanks or containers on-site. Additional flexibility is also provided for manifesting eligible mixed waste. Although mixed waste meeting the applicable conditions is exempt from certain RCRA requirements, it must still be managed as radioactive waste according to NRC regulations. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/radio/factsheet.pdf>.

06/15/2001

Order Number: EPA530-F-01-008 **Order Form:** OSW

***Environmental Fact Sheet: Management Standards Proposed for Cement Kiln Dust Waste**

Announces EPA's promotion of pollution prevention, recycling, and safer disposal of cement kiln dust by proposing management standards for this waste. Proposed standards provide a new, tailored framework that safeguards groundwater and limits risk from releases of dust to air. Only available on the Internet at <www.epa.gov/epaoswer/other/ckd/ckd/ckdp-fs.pdf>.

08/15/1999

Order Number: EPA530-F-99-023 **Order Form:** OSW

Environmental Fact Sheet: Milestone! Fifth Rulemaking Finalizes Land Disposal Restrictions

Completes the 6-year program. Details treatment standards established for wastes listed or identified before November 8, 1984. Hazardous waste management facilities must test treated waste to verify that it meets standards. Land disposal facilities must ensure that all waste disposal complies with LDRs.

05/08/1990

Order Number: EPA530-SW-90-048 **Order Form:** OSW

***Environmental Fact Sheet: Paint Wastes Not Listed as Hazardous Waste**

Announces EPA's final determination not to add two paint production wastes to the list of hazardous waste. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/id/paint/factsht.pdf>.

03/15/2002

Order Number: EPA530-F-02-014 Order form: OSW

Environmental Fact Sheet: Principles for Basel Convention Aim to Prevent Pollution, Reduce Risk, and Promote Recycling Issues

Presents recommendations to Congress for implementing the Basel Convention. Asks Congress to ban the export of nearly all hazardous wastes, municipal wastes, and municipal incinerator ash (known as covered wastes) beyond North American borders. Emphasizes the principles of waste minimization to make the United States more self-sufficient in the management and disposal of its wastes. Fosters appropriate recycling of low hazard materials (e.g., scrap paper, glass, textiles, and scrap metals) that trade like commodities and are needed as raw materials by not limiting transboundary movements of these materials. Lists parties to the Basel Convention, as of February 22, 1994.

03/15/1994

Order Number: EPA530-F-94-011 Order Form: OSW

***Environmental Fact Sheet: Procedures for Approving State Subtitle D Landfill Permitting Programs**

Describes EPA's requirements governing Subtitle D landfills, a major effort to improve the safety of solid waste landfills nationwide. Procedures allow states with approved permit programs flexibility in the way they choose to incorporate the federal requirements into their own solid waste management programs. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/muncpl/implemen/sir_rule.pdf>.

10/15/1998

Order Number: EPA530-F-98-024 Order Form: OSW

***Environmental Fact Sheet: Properly Managing Used Oil Filters**

Supports the recycling of properly drained used oil filters and their parts. Provides information on recycling or correct disposal of oil filters. Includes a checklist for properly draining oil filters. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/recycle/filters.pdf>.

07/15/1994

Order Number: EPA530-F-92-010 Order Form: OSW

***Environmental Fact Sheet: Proposed Rule Aims to Promote Metal Recovery from Waste Water Treatment Sludge (F006)**

Announces EPA's proposal for a cleaner, cheaper, and smarter way for the metal finishing industry to recycle F006 waste through metals recovery. Describes the proposal to allow generators of F006 waste (sludges from the treatment of electroplating wastewaters) up to 180 days (or up to 270 days, if applicable) to accumulate F006 waste without a hazardous waste storage permit or interim status, provided that these generators meet certain conditions for recycling waste. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/gener/f006/f006-fs.pdf>.

02/15/1999

Order Number: EPA530-F-99-009 Order Form: OSW

***Environmental Fact Sheet: Proposed Rule Aims to Revise Certain Standards for Spent Potliners from Primary Aluminum Reduction (K088) and Identify a New Regulatory Classification Scheme for Vitrification Units Treating K088 Waste**

Addresses EPA's proposed strategy for the treatment of K088 waste. Discusses this proposal as a signal of a new direction in the LDR program, one which fosters the use of environmentally-sound technologies over treatment that merely prepares a waste for land disposal. Describes this proposal as one that promotes the use of a technology that generates reusable products, fluoride dust and glass frit, as well as the destruction of significant amounts of cyanide in K088 waste. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/ldr/k088/k088-fs.pdf>.

07/15/2000

Order Number: EPA530-F-00-021 Order Form: OSW

***Environmental Fact Sheet: RCRA Corrective Action Showcase Pilots Announced**

Announces that 31 innovative cleanup pilots, known as the RCRA Showcase Pilots, are underway in all ten EPA Regions and more than twenty states. The pilots are intended to illustrate innovative, nationwide RCRA Correction Action cleanup efforts and to stimulate others to explore similar efforts to speed up progress toward EPA's cleanup goals. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/ca/showcase/rcra_sfa.pdf>.

10/15/2001

Order Number EPA530-F-01-001 Order Form: OSW

Environmental Fact Sheet: Redesigning Hazardous Waste Regulations on Recycling

Discusses EPA and the states' joint efforts to revise the regulatory definition of solid waste under RCRA. Addresses revisions that will improve EPA's regulation of hazardous waste recycling by removing disincentives that might cause industries to choose disposal over safe recycling, concentrating on higher-risk materials that pose greater hazards to human health, and developing simpler definitions and regulations.

07/15/1995

Order Number: EPA530-F-95-015 Order Form: OSW

***Environmental Fact Sheet: Regulatory Determination for Wastes from the Combustion of Fossil Fuels**

Announces EPA's decision that fossil fuel combustion wastes do not warrant regulation as hazardous under Subtitle C of RCRA. Discusses EPA's determination that national nonhazardous waste regulations under RCRA Subtitle D are needed for coal combustion wastes disposed in surface impoundments and landfills and used as minefill. Addresses EPA's conclusion that beneficial uses of these wastes, other than for minefilling, pose no significant risk and no additional national regulations are necessary. Only available on the Internet at <www.epa.gov/epaoswer/other/fossil/fossilfs.pdf>.

05/15/2000

Order Number: EPA530-F-00-025 Order Form: OSW

***Environmental Fact Sheet: Request for Comments: EPA Announces In-Depth Review of the Land Disposal Restrictions (LDR) Program**

Announces an in-depth review of key issues for the LDR Program to further ensure that human health and the environment are protected from the threats posed by the land disposal of hazardous wastes. Describes a series of technical and policy issues regarding hazardous waste treatment and potential avenues by which the LDR program might be revised. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/ldr/lrrp-fs.pdf>.

06/15/2000

Order Number: EPA530-F-00-022 Order Form: OSW

Environmental Fact Sheet: Revised Technical Standards for Hazardous Waste Combustion Facilities

Announces EPA's effort to reduce hazardous air pollutants by issuing emission standards for hazardous waste-burning incinerators, cement kilns, and lightweight aggregate kilns. Describes how these standards will significantly limit emissions of many hazardous air pollutants, including dioxins and furans, mercury, and other heavy metals.

08/15/1999

Order Number: EPA530-F-99-039 Order Form: OSW

***Environmental Fact Sheet: Rule Proposed to Reduce Hazardous Waste Record Keeping Requirements**

Explains EPA's proposal to reduce and streamline reporting and record keeping requirements in an effort to reduce the regulatory burdens (time spent developing and submitting information to federal agencies and on keeping records) associated with the hazardous waste management regulations. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/data/burdenfs.pdf>.

01/15/2002

Order Number: EPA530-F-02-006 Order Form: OSW

***Environmental Fact Sheet: Some Used Lamps Are Universal Wastes**

Announces EPA's decision to manage certain used lamps, especially fluorescent and high intensity discharge lamps, under the universal waste program. Allows for less stringent standards for storing, transporting, and collecting used lamps while maintaining compliance with full hazardous waste requirements for final recycling, treatment, or disposal. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/id/mercemi/merc-pgs/lamps-fs.pdf>.

07/15/1999

Order Number: EPA530-F-99-024 **Order Form:** OSW

Environmental Fact Sheet: Source Reduction of Municipal Solid Waste

Outlines the significant growth in solid waste generation in the U.S. and the impact of source reduction on the national waste stream. Defines source reduction and addresses source reduction versus recycling. Profiles some key source reduction strategies. Addresses how source reduction affects climate change. Lists resources for further information.

09/15/1999

Order Number: EPA530-F-99-038 **Order Form:** OSW

***Environmental Fact Sheet: Standards for Hazardous Air Pollutants for Hazardous Waste Combustors - Direct Final Rule, Parallel Proposal, and Proposed Rule**

Announces that EPA is amending nationwide standards for hazardous waste burning incinerators, cement kilns and lightweight aggregate kilns. These amendments will make it easier to comply with the standards that apply to many hazardous air pollutants of concern, including dioxins and furans, mercury, and other heavy metals. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/combust/combustfs.pdf>.

05/15/2001

Order Number: EPA530-F-01-010 **Order Form:** OSW

***Environmental Fact Sheet: Standards Issued for Nonmunicipal Solid Waste Units That Receive CESQG Hazardous Waste**

Announces the promulgation of standards for nonmunicipal solid waste units that receive hazardous waste from CESQGs. Explains new technical standards for nonmunicipal nonhazardous waste disposal units that receive CESQG hazardous wastes; these include location restrictions, groundwater monitoring requirements, and corrective action standards. Describes the three types of facilities that might receive CESQG waste and how they might be affected by this rule. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/sqg/cesqgfs.txt>.

06/15/1996

Order Number: EPA530-F-96-036 **Order Form:** OSW

Environmental Fact Sheet: The National Corrective Action Prioritization System

Describes the National Corrective Action Prioritization System, a system set up to efficiently and consistently assess the relative cleanup priority of RCRA facilities. Introduces the system's ranking and how rankings are used.

01/15/1993

Order Number: EPA530-F-92-027 **Order Form:** OSW

***Environmental Fact Sheet: Treatment Standards Set for Toxicity Characteristic (TC) Metal Wastes, Mineral Processing Wastes, and Contaminated Soil**

Announces EPA's promulgation of treatment standards for metal-bearing wastes, including TC waste with high levels of metal constituents, and waste generated in mineral processing operations. Discusses miscellaneous issues related to mineral processing wastes and the amendment of treatment standards for soil contaminated with solid wastes. Reports on exclusion from regulation of certain waste waters from wood preserving operations. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/ldr/ldrmetal/fs-metal.pdf>.

04/15/1998

Order Number: EPA530-F-98-010 **Order Form:** OSW

Environmental Fact Sheet: Two New Hazardous Waste Codes Added From Organobromine Production

Announces promulgation of the final rule to add two new waste codes to the current lists of RCRA hazardous waste. Amends land disposal restrictions treatment standards by adding wastes from the production of organobromines.

04/15/1998

Order Number: EPA530-F-98-007 **Order Form:** OSW

Environmental Factor™: RCRA Hazardous Waste Generation and Disposal (BRS 1995 Final) on CD-ROM

Provides cradle to grave waste tracking of actual output information on waste generation and disposition by LQGs and SQGs, transporters, and TSDFs. Developed and maintained independently by the Olewine Company, the database retrieval system allows the user to locate owner/operator information and names, titles and telephone numbers of project managers; browse detailed data on TSDFs and LQGs activities, such as onsite waste treatment, disposal, or recycling, offsite waste received, waste generation and management, and waste minimization; monitor a TSDF's hazardous waste shipments by waste code; locate a TSDF handling a waste code within a geographic area of interest; and produce a detailed report of all waste shipped or shipments received by a TSDF. Product contains databases, search and retrieval software on an ISO 9600/High Sierra format CD-ROM, online help from any screen, an installation diskette, and a User's Guide. Requires a PC386 running DOS 3.1 or higher and 4 Meg hard-disk space. The Olewine Company also offers hotline support for no additional charge.

07/15/1997

Order Number: PB98-500 267INC **Order Form:** NTIS

Environmental Factor™: RCRA Hazardous Waste Handler Information (RCRIS) on CD-ROM

Contains permit status, design capacity and compliance history for facilities found in the EPA RCRIS program tracking database. Developed and maintained independently by the Olewine Company, the database retrieval system allows the user to search for RCRA facilities by permit type, Standard Industry Classification (SIC) code, RCRA waste codes, corrective action or violation; view compliance information (dates of evaluation, violation, enforcement and corrective action); look up facilities by waste processing categories of marketing, transporting, processing and energy recovery; and produce facility profile reports showing waste activity or compliance history. Product contains databases, search and retrieval software on two ISO 9600/High Sierra format CD-ROMs, online help from any screen, an installation diskette, and a User's Guide. Requires a PC running DOS 3.1 or higher and 4 Meg hard-disk space. The Olewine Company also offers hotline support for no additional charge.

Order Number: PB2000-593 440INC

(standing order subscription)

Order Number: PB99-593 441INC **Order Form:** NTIS

(latest issue only)

EP Toxicity Characteristic (40 CFR 261.24); Identification and Listing of Hazardous Waste Under RCRA, Subtitle C, Section 3001

Describes process by which EPA identified and defined extraction procedure toxicity characteristic. Presents rationale, assumptions, models, and scientific studies employed in defining extraction procedure toxicity. Discusses comments received on proposed characteristics and changes made in response to comments.

05/01/1980

Order Number: PB81-185 027

Order Form: NTIS

**EPA Activities Under RCRA of 1976—
Annual Report to the President and
Congress, Fiscal Year 1977**

Describes activities of EPA during fiscal year 1977 in carrying out mandates and authorizations of RCRA. Covers activities related to state and local program development, land disposal provisions, hazardous waste regulation, resource recovery and waste reduction, and public participation and information. Summaries from EPA regional offices compiled to indicate activities throughout country. Lists reports and publications issued during the year. (EPA SW-663) 02/01/1978

Order Number: PB88-197 603 Order Form: NTIS

**EPA Activities Under RCRA—Annual
Report to the President and Congress,
Fiscal Year 1978**

Describes activities of EPA during fiscal year 1978 in carrying out mandates and authorizations of RCRA. Covers activities planned for 1979 and activities related to state and local program development, land disposal provisions, and public participation and education. summaries from EPA regional offices are compiled to indicate activities throughout country. Lists reports and publications issued during year. (EPA SW-755) 03/15/1979

Order Number: PB96-162 201 Order Form: NTIS

***EPA Expands Comprehensive
Procurement Guidelines (CPG)**

Announces EPA's new recycled content items to the CPG. Outlines history of the CPG, including a table of all pertinent FRs, and summarizes the CPG program. Details the CPG categories and designated items. Describes a successful affirmative procurement program, including the preference program; promotion program; estimation, certification, and verification program; and procedures to monitor and review the procurement program. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/procure/pdf/cpg-fs.pdf>. 08/15/2004

Order Number: EPA530-F-04-008 Order Form: OSW

**EPA Guide for Infectious Waste
Management**

Provides guidance on management of infectious waste. Documents EPA perspective on acceptable infectious waste management practices. Topics include a definition of infectious waste and recommended practices for packaging, treatment, storage, transportation, and disposal of wastes. Contains updated summary of state requirements and regulations. (EPA530-SW-86-014) 05/15/1986

Order Number: PB86-199 130 Order Form: NTIS

***EPA Proposes Conditional Exclusions
from the Definition of Hazardous
Waste and the Definition of Solid
Waste For Solvent-Contaminated
Wipes**

Announces EPA's proposal to modify the hazardous waste management system for industrial wipes that have been contaminated by hazardous solvents by improving clarity and consistency in the regulation of industrial wipes, providing regulatory relief, and saving affected facilities over \$30 million per year. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/id/solvents/wipes-fs.pdf>. 11/15/2003

Order Number: EPA530-F-03-038 Order Form: OSW

***EPA Proposes Hazardous Waste
Listing Determination for Dyes and
Pigments Production Wastes**

Fact sheet describing EPA's proposal to list non-wastewaters from the production of certain dyes, pigments and FD&C colorants as hazardous waste under RCRA. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/id/dyes/factsht.pdf>. 11/15/2003

Order Number: EPA530-F-03-057 Order Form: OSW

Equivalency of State Financial Responsibility Mechanisms

Describes criteria of equivalence to federal requirements for states seeking authorization to administer hazardous waste programs. States not seeking such authorization may enact financial responsibility requirements applicable to owners and operators of hazardous waste management facilities. Covers criteria for equivalence determinations, trust funds, surety bonds, letters of credit, and closure or postclosure insurance.

09/01/1982

Order Number: PB87-157 475

Order Form: NTIS

¡Es Fácil Ser Verde! Una Guía para Planear y Dirigir Reuniones y Eventos Conscientes del Ambiente (Spanish Translation of *It's Easy Being Green: A Guide to Planning and Conducting Environmentally Aware Meetings and Events*)

Este librete asiste a los profesionales a planear eventos para el buen ambiente. Incluye perfiles de los acontecimientos acertados que se han llevado a cabo, así como los procedimientos paso a paso para coordinar eventos usando una lista de comprobación del planeamiento.

15/09/2003

Número de pedido:

EPA530-K-96-002S

Formulario de pedido:

OSW

Evaluating Cover Systems for Solid and Hazardous Waste

Describes 39 steps to evaluate plans to sequence designing, constructing, and maintaining of effective cover over solid and hazardous waste. Evaluations consider soils, site conditions, details of cover design, and postclosure maintenance and contingencies.

(EPA SW-867)

09/15/1982

Order Number: PB87-154 894

Order Form: NTIS

*Evaluating the Vapor Intrusion into Indoor Air

Fact sheet describing a draft guidance issued by EPA to help determine if the vapor intrusion exposure pathway poses a significant risk to human health. Only available on the Internet at <www.epa.gov/correctiveaction/eis/vapor/f02052.pdf>.

11/15/2002

Order Number: EPA530-F-02-052

Order Form: OSW

Evaluation Guidelines for Toxic Air Emissions from Land Disposal Facilities

Provides technical guidance to evaluate the potential emissions of volatile hazardous chemicals into the atmosphere from land disposal facilities such as surface impoundments, seepage facilities, landfills, and land treatment facilities. This method predicts impact on ambient air quality by estimating the emission rates of toxic components from disposal facilities.

08/01/1981

Order Number: PB87-157 418/AS

Order Form: NTIS

Exemption of Oil and Gas Exploration and Production Wastes from Federal Hazardous Waste Regulations

Addresses the exemption of certain oil and gas exploration and production (E&P) wastes from regulation as hazardous wastes under Subtitle C of RCRA. Discusses basic rules for determining the exempt or non-exempt status of wastes. Provides examples of exempt and non-exempt wastes. Examines E&P waste mixtures. Clarifies several misunderstandings about the exemption and answers frequently asked questions. Makes recommendations for sensible waste management. Includes sources of additional information. **Also available in Spanish.**

08/15/2002

Order Number: EPA530-K-01-004

Order Number: EPA530-K-01-004S

Order Form: OSW

Exención de los Residuos de la Exploración y Producción de Petróleo Crudo y Gas Natural de los Reglamentos Federales de Residuos Peligrosos (Spanish Translation of Exemption of Oil and Gas Exploration and Production Wastes from Federal Hazardous Waste Regulations)

Trata la exención de ciertos residuos del aceite y de la exploración y de la producción del gas (E&P) de la regulación como desechos peligrosos bajo el subtítulo C de RCRA. Discute las reglas básicas para determinar el estado exento o no-exento de residuos. Proporciona ejemplos de los residuos exentas y no exentas. Examina las mezclas de desechos de E&P. Clarifica varios malentendidos sobre la exención y contesta a varias preguntas. Hace recomendaciones para la gestión de desechos sensible. Incluye recursos de la información adicional.

15/12/2003

Número de pedido: EPA530-K-01-004S
Formulario de pedido: OSW

Exposure Assessment Guidance for RCRA Hazardous Waste Combustion Facilities; Draft

Transmits recommendations on implementing the Agency's guidance on conducting indirect exposure assessments. Includes implementation guidance for conducting indirect exposure analysis at RCRA combustion units, products of incomplete combustion list, guidance on trial burns, and guidance for performing screening level risk analysis at combustion facilities.

04/15/1994

Order Number: EPA530-R-94-021 *Order Form:* OSW

Extended Product Responsibility: A New Principle for Product-Oriented Pollution Prevention

Defines the general principle of EPR (the shifting of responsibility to a life cycle concept to identify opportunities for preventing pollution and reducing resource and energy use in each stage of the product life cycle through changes in product design and process technology; the sharing of responsibility for the life cycle environmental impacts of the product system among links in the product chain; and a product systems approach with a focus of creating feed-back to product designers to design cleaner products). Discusses product responsibility in the United States. Addresses extended responsibility in the electronics industry. Presents The Frigidaire Company's program for recyclable product development of refrigerators, automotive take back and recycling programs, an industry program to collect and recycle nickel-cadmium batteries, Interface Flooring Systems' Evergreen Program and the product of service concept, Xerox Corporation's product stewardship, and Rochester-Midland Corporation's life-cycle partnership for cleaning products. Includes an appendix of EPR policy in the United States, Canada, the European Union, Germany, The Netherlands, France, Denmark, Sweden, Belgium, the United Kingdom, and Japan. Prepared under a grant by the University of Tennessee Center for Clean Products and Clean Technologies.

06/15/1997

Order Number: EPA530-R-97-009 *Order Form:* OSW

Extended Product Responsibility: A Strategic Framework for Sustainable Products

Describes reduction of the life-cycle environmental impacts of products. Provides reasons for companies to consider EPR. Outlines how EPR works.

12/15/1998

Order Number: EPA530-K-98-004 *Order Form:* OSW

Fate and Transport of Hazardous Constituents; Identification and Listing of Hazardous Waste Under RCRA, Subtitle C, Section 3001

Presents two sections. The first section is a compilation of physical and chemical properties of 195 hazardous constituents. The second section estimates the migratory potential or persistence of constituents of concern, based on model in which waste is disposed of in an unconfined landfill and/or lagoons.

05/01/1980

Order Number: PB81-190 027

Order Form: NTIS

Final Draft Guidance for Subpart H of the Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities

Assists regional offices in implementing closure and postclosure plans. Identifies major issues that affect closure requirements, with clarification of definitions. Focuses on six specific types of closing: tanks, surface impoundments, land treatment facilities, landfills, incinerators, and multiple process facilities.

11/15/1981

Order Number: PB87-193 397

Order Form: NTIS

Final Interim Status Standards for Surface Impoundments (40 CFR 265.220); Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities Under RCRA, Subtitle C, Section 3004

Describes purpose, legislative authority for regulations, and key definitions used in the development of standards. Discusses the need for regulation from public health and environmental standpoints. Provides a synopsis of proposed regulations. Includes analysis of issues, including proposed regulations and rationale, comments received, EPA's response and final regulatory language. References and appendices included.

04/15/1980

Order Number: PB81-185 001

Order Form: NTIS

Final Paper Products Recovered Materials Advisory Notice (RMAN): Response to Public Comments

Provides EPA's response to comments requested on paper-grade specific issues and on content levels, definitions, and specifications recommended in the Draft of the Paper RMAN, published in March 1995. Describes the draft of the paper RMAN recommendations for procuring agencies to use when purchasing paper and paper products containing postconsumer recovered materials.

05/15/1996

Order Number: EPA530-R-96-004

Order Form: OSW

*Final Rule Revises Three Items and Adds Seven New Items to Comprehensive Procurement Guidelines

Fact sheet describing the revisions to three items (cement and concrete, polyester carpet, and railroad grade crossing surfaces) and the designation of seven new items (bike racks, blasting grit, modular threshold ramps, non-pressure pipe, office furniture, rebuilt vehicular parts, and roofing materials) to the comprehensive procurement guidelines. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/procure/pdf/cpg4-fs.pdf>.

03/15/2004

Order Number: EPA530-F-04-005

Order Form: OSW

Financial Assurance for Closure and Postclosure Care; Requirements for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities; A Guidance Manual

Communicates information to ensure that adequate financial responsibility is provided for proper closure and postclosure care of hazardous waste facilities. Introduction provides a general background for understanding financial requirements and manual organization. An overview of requirements is included in Chapter II. Subsequent chapters deal with trust funds, surety bonds, letters of credit, insurance, financial test and corporate guarantee, state-required mechanisms, and assumption of responsibility.

(EPA SW-955)

05/15/1982

Order Number: PB82-237 595

Order Form: NTIS

Financial Requirements; Interim Status Standards (40 CFR 265, Subpart H); Final Draft Guidance

Assists regional offices in implementing sections of interim status regulations relevant to closure and postclosure cost estimates. Section should be read in conjunction with guidance for closure and postclosure plans. Document emphasizes interim status.
(EPA SW-913) 01/15/1984

Order Number: PB88-197 595 **Order Form: NTIS**

Financial Responsibility for Municipal Solid Waste Landfills: An Introduction for Local Governments

Provides a brief overview of the requirements for owners and operators of MSW landfills to demonstrate financial responsibility for certain costs associated with their landfills. Enumerates the seven financial mechanisms that owners and operators may use to demonstrate financial responsibility. Lists regional and headquarters contacts.
04/15/1997

Order Number: EPA530-K-97-002 **Order Form: OSW**

Financing Guide for Recycling Businesses: Investment Forums, Meetings, and Networks

Designed to help recycling ventures identify sources of capital and to foster awareness of these opportunities among financiers. Documents the business strengths necessary to attract significant investment. Lists ways for entrepreneurs and economic developers to identify a wide range of potential financial partners for recycling companies. Provides recommendations for economic developers and prospective forum organizers on the design of recycling-specific forums. Includes a listing by geographic region of more than 100 investment forums, meetings, and networks that have developed to help entrepreneurs, investors, and service providers find compatible partners. Provides contact information and brief description of each organization.
09/15/1996

Order Number: EPA530-R-96-012 **Order Form: OSW**

First Report to Congress: Resource Recovery and Source Reduction

Pertains to investigation and study of problems of resource recovery. Organized into four major sections and two appendices.
(EPA SW-352) 01/15/1974

Order Number: PB255 139/8 **Order Form: NTIS**

Follow That Trail!

This activity book for grades K-3 is part of the *Planet Protectors Club Kit*. Students follow the trail through a maze, a rebus, and other fun activities to find out where bottles and cans go after they are recycled, and other facts about resource conservation. Also available in Spanish.
09/15/1998

Order Number: EPA530-K-98-001
Order Number: EPA530-K-98-001S **Order Form: OSW**

40 CFR Parts 190-259

Codifies the general and permanent rules pertaining to RCRA published in the *FR* by EPA.
07/01/2004

Order Number: 869-052-00159-7 **Order Form: GPO**

40 CFR Parts 260-265

Codifies the general and permanent rules pertaining to RCRA published in the *FR* by EPA.
07/01/2004

Order Number: 869-052-00160-1 **Order Form: GPO**

40 CFR Parts 266-299

Codifies the general and permanent rules pertaining to RCRA published in the *FR* by EPA.
07/01/2004

Order Number: 869-052-00161-9 **Order Form: GPO**

Fourth Report to Congress: Resource Recovery and Waste Reduction

Reviews current status of resource recovery and waste reduction programs. Presents new findings on resource recovery and waste reduction from EPA studies, investigations, and technology demonstration projects. Includes bibliography of relevant EPA publications.

(EPA SW-600) 08/01/1977

Order Number: PB88-197 579 **Order Form:** NTIS

Fourth Year WasteWise Progress Report: Preserving Resources, Preventing Waste

Examines the WasteWise program's fourth year and shares the results achieved by WasteWise partners in 1997.

Provides sample partner achievements, highlights in waste prevention, recycling collection, and buying and manufacturing recycled products. Contains graph showing WasteWise partner growth from 1994 through 1998.

Features the "WasteWise Partners of the Year" with brief descriptions of their waste prevention activities. Lists WasteWise "Program Champions." Describes the satellite forum held in June 1998. U.S. map shows locations of partner network meetings, trade shows, and regional forums, and the number of WasteWise partners in each state.

09/15/1998

Order Number: EPA530-R-98-016 **Order Form:** OSW

Full Cost Accounting for Municipal Solid Waste Management: A Handbook

Introduces FCA and describes how FCA identifies what MSW management costs, explains the peaks and valleys in MSW cash expenditures, illustrates MSW costs to citizens more clearly, adopts a businesslike approach to MSW management, develops a stronger position in negotiating with vendors, evaluates the appropriate mix of MSW services, and fine-tunes MSW programs. addresses compilation of FCA data, allocating costs, and reporting FCA data. Includes glossary of FCA terms.

09/15/1997

Order Number: EPA530-R-95-041 **Order Form:** OSW

Full Cost Accounting in Action: Case Studies of Six Solid Waste Management Agencies

Illustrates the ways that different agencies developed unique FCA systems and applied those systems to address local issues, ranging from establishing user fees to cover service costs to developing a financial strategy for closing an ash landfill. For each case study provides information on MSW system operations and costs, describes local FCA data and its developments, and explains how these data were used to address one or more local issues. Highlights the overarching uses and benefits of FCA rather than the early planning stages of incorporating FCA into existing budget and accounting procedures. Includes FCA glossary.

12/15/1998

Order Number: EPA530-R-98-018 **Order Form:** OSW

General and Interim Status Standards for Tanks (40 CFR 264 and 265, Subpart J); Interim Status Standards for Chemical, Physical, and Biological Treatment (40 CFR 265, Subpart Q); Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities Under RCRA, Subtitle C, Section 3004

Provides EPA's support and rationale for regulating hazardous waste in tanks and in chemical, physical and biological treatment facilities. Contains definitions, damage incidents, and description of precedents set for regulation. Describes proposed regulation and summarizes comments and EPA's responses to comments as well as rationale for final regulation. Proposes two new requirements concerning comprehensive inspection of tanks and control of air emissions.

12/15/1980

Order Number: PB81-190 050 **Order Form:** NTIS

General Facility Standards for Location of Facilities (40 CFR 264, Subpart B, Section 264.18); Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities Under RCRA, Subtitle C, Section 3004

Provides background and support for EPA's general location standards, from which permits are granted. Explains background and basis for regulations.

12/15/1980

Order Number: PB81-189 755

Order Form: NTIS

General Issues Concerning Interim Status Standards (40 CFR 265); Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities Under RCRA, Subtitle C, Section 3004

Addresses general issues regarding interim standards at hazardous waste management facilities. Standards allow prompt implementation of the initial phase of the RCRA hazardous waste control.

04/15/1980

Order Number: PB81-181 414

Order Form: NTIS

General Waste Analysis (40 CFR 264.13); Interim Status Standards for General Waste Analysis (40 CFR 265.13); Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities Under RCRA, Subtitle C, Section 3004

Provides EPA's support for imposing general waste analysis standards at hazardous waste management facilities. Addresses Congressional authority for regulation. Provides examples of damage incidents and describes precedents for regulation set by state and/or other federal statutes. Summarizes and responds to comments received on proposed regulations, giving EPA's rationale for final regulations.

04/29/1980

Order Number: PB81-181 406

Order Form: NTIS

Generation and Management of CESQG Waste

Summarizes existing data on the waste generation and management practices of CESQG. Includes data on the number of CESQGs and the volume of CESQG waste. Discusses major CESQG waste generating industries, major CESQG waste types, and CESQGs waste management practices. Appendices provide detailed information on the source of information, list state requirements for CESQGs, and cite available federal and state documents that encourage pollution prevention and proper waste management by CESQGs.

(EPA530-R-95-017)

07/15/1994

Order Number: PB95-208 898

Order Form: NTIS

Generic Quality Assurance Project Plan for Land Disposal Restrictions Program (BDAT)

Details EPA's BDAT program for collecting treatment data and setting forth specific quality assurance and quality control parameters.

(EPA530-SW-87-011)

03/15/1987

Order Number: PB88-170 766

Order Form: NTIS

Geochemical Modeling of Mine Pit Water: An Overview and Application of Computer Codes

Evaluates the suitability of hydrogeochemical computer modeling codes BALANCE, MINTEQA2, PHREEQE, WATEQF, and WATEQF4 to the task of modeling post-mining pit water geochemistry. Discusses the advantages and disadvantages of these codes for pit water modeling. Provides detailed descriptions of the operation of each software code. Includes a detailed discussion of introductory aqueous geochemistry and how the concepts are integrated into chemical models.

(EPA530-R-95-012)

12/15/1994

Order Number: PB95-191 250

Order Form: NTIS

Geosynthetic Clay Liners Used in Municipal Solid Waste Landfills

Describes geosynthetic liners (GCLs), a new and innovative technology that meets federal performance standards of the Criteria for MSWLFs (40 CFR 258), used as a barrier system in MSWLF applications. Discusses GCL technology—materials, hydraulic conductivity, shear strength and other characteristics, and testing. Lists available GCL products, their installation, and costs. Addresses performance factors and design and installation standards. Provides case studies. Includes references and sources of additional information.

07/15/1997

Order Number: EPA530-F-97-002 **Order Form:** OSW

Geotechnical Systems for Structures on Contaminated Sites; Technical Guidance Document

Addresses some of the technical aspects of contaminated site remediation and redevelopment. This document is intended for use by regional and state personnel at sites where contamination is marginal or where the primary source of contamination has been removed, and where it might be technically feasible to build functional structures that can mitigate some environmental hazards. Includes background information on the corrective action program, suitable conditions for structural development, major categories of contaminated sites, selection of site-design measures, design components and configurations, measures of coverage effectiveness, and examples of sites.

(EPA530-R-93-002)

08/15/1993

Order Number: PB93-209 419 **Order Form:** NTIS

Getting More for Less: Improving Collection Efficiency

Summarizes information presented to participants at a series of national workshops on collection efficiency. Defines collection efficiency as picking up more solid waste or recyclables using fewer trucks or fewer people or less time. Focuses on four specific cost-cutting strategies: changing collection frequency, improving routing, automating collection, and implementing dual collection. Outlines steps for designing changes to a collection system. Includes resources.

11/15/1999

Order Number: EPA530-R-99-038 **Order Form:** OSW

Getting on the Books with Waste Reduction

Fact sheet describing the Department of Energy's Voluntary Reporting of Greenhouse Gas Program, created for individuals or entities to report information on any activity that reduces emissions of greenhouse gases or increases carbon sequestration. Provides sample success stories. Addresses benefits, and challenges. Also available in the kit folder *Climate Change and Waste*.

07/15/2002

Order Number: EPA530-F-02-019 **Order Form:** OSW

Got Your Driver's License? You Can Make a Difference

Brochure encouraging new drivers to recycle their used motor oil. Also Available in Spanish. Included in *Your Life, Your World, Your Choices: Everything You Do Can Make a Difference Kit*.

09/15/2003

Order Number: EPA530-F-03-040

Order Number: EPA530-F-03-040S **Order Form:** OSW

Grant Resources for Solid Waste Activities in Indian Country

Serves as a resource tool to assist tribes, Alaskan native villages, and community and nonprofit organizations in identifying financial assistance opportunities for their solid waste management programs. Provides general information on developing effective grant proposals and describes potential funding sources for solid waste activities. Includes both federal and private sources for grants. Provides purpose, eligibility, types of support, uses and use restrictions, financial information, sample of previous awards, deadline, application information, criteria for selecting proposals, assistance considerations, post assistance requirements, information contacts, and related programs for each grant source. Includes sample forms and glossary. Includes list of EPA regional tribal coordinators.

08/15/1998

Order Number: EPA530-R-98-014 **Order Form:** OSW

Green Advertising Claims

Helps consumers evaluate the environmental claims of products. Cautions against vague claims, claims of biodegradability, and claims that products are ozone-friendly. Provides government information sources.

10/15/1992

Order Number: EPA530-F-92-024 Order Form: OSW

GreenScapes: Environmentally Beneficial Landscaping

Describes EPA's GreenScapes program. Provides cost-efficient and environmentally friendly solutions for large-scale landscaping. Focuses on reducing, recycling, reusing, and rebuying. Includes a checklist of activities.

07/15/2003

Order Number: EPA530-K-03-003 Order Form: OSW

***GreenScapes Success Story: A Greener Green**

Describes how the North Shore Country Club in Glenview, Illinois, uses green methods to keep grass on the golf course. Instead of chemical fertilizers and pesticides, the club uses a 50-50 mix of nutrient-rich biosolids from the Chicago Metropolitan Sanitary Sewer District and compost made from yard waste to keep the greens healthy and aesthetically pleasing. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/green/pubs/nthshore.pdf>.

07/15/2003

Order Number: EPA530-F-03-029 Order Form: OSW

***GreenScapes Success Story: Abandoned Plastics Find a Home**

Describes how Agri-Plas, Inc. recycles all types of plastics from plant nursery products to sell for making new planting pots, auto parts, and plastic lumber. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/green/pubs/agriplas.pdf>.

07/15/2003

Order Number: EPA530-F-03-021 Order Form: OSW

***GreenScapes Success Story: Bobsledding on Bottles**

Describes how the Olympic Regional Development Authority (ORDA) of Lake Placid, New York, in preparation for the 2000 Winter Goodwill Games, added three staging platforms to its bobsled/luge/skeleton run made from recycled milk and detergent bottles and reinforced with fiberglass. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/green/pubs/bobsled.pdf>.

07/15/2003

Order Number: EPA530-F-03-023 Order Form: OSW

***GreenScapes Success Story: Compost as Cure-All**

Relates how Filtrexx International, LLC is using compost to prevent erosion along highways, at construction sites, and other transportation and building locations. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/green/pubs/filtrexx.pdf>.

07/15/2003

Order Number: EPA530-F-03-025 Order Form: OSW

***GreenScapes Success Story: Food Scraps and Wine: An Agreeable Combination**

Describes how Jepson Prairie Organics is using compost made from the food scraps of more than 1,500 food related businesses and thousands of residents in San Francisco on vineyards throughout Northern California's wine country to enhance the quality of the soil. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/green/pubs/cawine.pdf>.

07/15/2003

Order Number: EPA530-F-03-024 Order Form: OSW

***GreenScapes Success Story: Golden Compost**

Relates how the Texas Department of Transportation is using compost to prevent the erosion of roads by helping vegetation grow quickly. Describes several successful uses of compost along Texas roads. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/green/pubs/txroads.pdf>.

07/15/2003

Order Number: EPA530-F-03-031 Order Form: OSW

***GreenScapes Success Story: New Jersey's Milk Jug Bridge**

Explains the process researchers at Rutgers University patented that creates a super-strong material from post-consumer plastics like polystyrene cups and polyethylene milk jugs. Describes the bridge constructed over the Mullica River in Wharton State Park, New Jersey. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/green/pubs/njbridge.pdf>.

07/15/2003

Order Number: EPA530-F-03-028 Order Form: OSW

***GreenScapes Success Story: Not Your Typical Compost Feedstock**

Describes the Aspen Skiing Company's deconstruction of two buildings. The company sorted the materials and either reused them or ground them into compost <www.epa.gov/epaoswer/non-hw/green/pubs/aspen.pdf>.

07/15/2003

Order Number: EPA530-F-03-022 Order Form: OSW

***GreenScapes Success Story: Parks Abound with Plastic Lumber**

Relates how Harmonie State Park in Indiana and Anoka County, Minnesota have successfully used plastic lumber, replacing pressure-treated wood in bridges, picnic tables, and benches. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/green/pubs/parks.pdf>.

07/15/2003

Order Number: EPA530-F-03-030 Order Form: OSW

***GreenScapes Success Story: Recycled Rubber Raises the Road**

Describes how the Maine Department of Transportation used shredded tires to support a new raised road bed, creating a road and bridge that allows year-round access to a local community. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/green/pubs/mebridge.pdf>.

07/15/2003

Order Number: EPA530-F-03-027 Order Form: OSW

***GreenScapes Success Story: These Tires Were Made for Walkin'**

Discusses several projects undertaken by Los Angeles County, California to recycle tire rubber into pathways, playground surfaces, and flooring tile throughout its district. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/green/pubs/latires.pdf>.

07/15/2003

Order Number: EPA530-F-03-026 Order Form: OSW

"Greenscaping" Your Lawn and Garden

Encourages consumers to grasscycle, mulch, and compost to reduce the amount of yard waste in the waste stream. Provides details on how and what to compost. Addresses changing landscaping to "greenscaping" by reducing (use manual tools and fewer harmful pesticides), reusing (collect rainwater), recycling (used oil and tires from landscaping vehicles and equipment), and rebuying (gardening products made from recycled materials). **Also available in Spanish.** Included in *The Power of Change: Protecting the Environment for the Next Generation Kit* and in *Your Life, Your World, Your Choices: You Can Make a Difference Kit*.

01/15/2003

Order Number: EPA530-K-03-002

Order Number: EPA530-K-03-002S Order Form: OSW

Groundwater Monitoring (40 CFR 265, Subpart F); Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities Under RCRA, Subtitle C, Section 3004

Provides EPA's support for setting groundwater monitoring standards at hazardous waste management facilities. Facilities must monitor movement of groundwater to detect contaminants as early as possible. Specifies monitoring requirements.

05/20/1980

Order Number: PB81-189 797

Order Form: NTIS

Groundwater Pathway Analysis for Aluminum Potliners (K088)

Discusses the application of the EPA Composite Model for Leachate Migration with Transformation Products to model the groundwater impact of the disposal of aluminum potliners. Describes the modeling approach and data sources used. Presents the results of the fate and transport modeling. Provides references.
(EPA530-R-97-023) 02/15/1996

Order Number: PB97-176 853 Order Form: NTIS

Guidance Document for Subpart F: Air Emission Monitoring; Land Disposal Toxic Air Emissions Evaluation Guideline

Presents procedures for assessing the impact of hazardous air emissions from disposal facilities on downwind population. Disposal areas include surface impoundments, seepage facilities, landfills, and land treatment facilities. Calculations presented for quick reference.
12/15/1980

Order Number: PB87-155 578/AS Order Form: NTIS

Guidance Document: Seismic Considerations in Hazardous Waste Management Facilities

Documents EPA's support for regulations prohibiting hazardous waste management facilities from locating within 200 feet of a fault that has had displacement in Holocene Period (i.e. approximately the past 11,000 years). Addresses final ruling on surface fault displacement. Includes description of regulation and consequences of noncompliance. Appendices discuss earthquakes and faults, types of fault displacements, and holocene deposits.
12/29/1980

Order Number: PB87-155 552/AS Order Form: NTIS

Guidance for Capacity Assurance Planning; Capacity Planning Pursuant to CERCLA Section 104(c)(9)

Provides guidance to the states on how to assure adequate hazardous waste treatment and disposal capacity for meeting the requirements of Section 104(c)(9) of CERCLA by preparing the 1993 hazardous waste capacity assurance plans. Includes an overview of the capacity assurance planning process, base-year data, projections, and information on addressing shortfalls.
(EPA530-R-93-014) 05/15/1993

Order Number: PB93-209 898 Order Form: NTIS

***Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance); Draft**

Addresses the evaluation of a single exposure pathway – the “vapor intrusion pathway.” Provides a tool to help the user conduct a screening evaluation as to whether or not the vapor intrusion exposure pathway is complete and, if so, whether it poses an unacceptable risk to human health. Only available on the Internet at <www.epa.gov/correctiveaction/eis/vapor/complete.pdf>.
11/15/2002

Order Number: EPA530-D-02-004 Order Form: OSW

Guidance for Facility Management Planning; Draft

Provides guidance developing multi-year strategies, the third step of the facility management planning process. Designed to encourage coordination among state and EPA enforcement officials and permitting entities.
07/01/1985

Order Number: PB87-188 090 Order Form: NTIS

Guidance for Implementing the RCRA Dioxin Listing Rule

Supplies states and EPA regions with guidance on implementing RCRA listing of CDFs. Gives consensus positions of various enforcement offices for major response issues of RCRA and CERCLA programs. Issues and proposed resolutions are summarized.
08/01/1985

Order Number: PB87-202 040 Order Form: NTIS

Guidance for Permit Writers: Facilities Storing Hazardous Waste in Containers

Provides permit writers with a systematic approach to evaluate permit applications from facilities that store hazardous waste in containers. Includes details about design, equipment, and specific procedures for evaluating data submitted by permit applicants. Contains topical bibliographies.

11/02/1982

Order Number: PB88-105 689

Order Form: NTIS

Guidance for the Analysis of Refinery Wastes

Provides companion document to SW-846. Describes and directs modifications applied to samples from petroleum-refining waste streams. Describes analytical constraints imposed by waste stream residual samples as contrasted to what can be described as environmental residual samples.

07/05/1985

Order Number: PB87-154 910/AS

Order Form: NTIS

Guidance for the Sampling and Analysis of Municipal Waste Combustion Ash for the Toxicity Characteristic

Contains guidance to assist generators of ash from municipal waste combustion facilities in determining whether their ash is hazardous because it exhibits the toxicity characteristic. Discusses typical concerns during development of a sampling plan and presents one example of an approach to ash sampling. Describes analysis using the TCLP from Test Methods for Evaluating Solid Waste. Discusses the importance of quality assurance and quality control. Describes criteria for evaluating data to determine whether ash is hazardous for the toxicity characteristic. Provides a listing of resources for designing a sampling and analysis plan. Includes appendix of definitions of terms used in the guidance.

06/15/1995

Order Number: EPA530-R-95-036

Order Form: OSW

Guidance Manual for Cost Estimates for Closure and Postclosure Plans (Subparts G and H); Volume I: Treatment and Storage Facilities

Provides framework for developing closure cost estimate for treatment and storage technologies. Intended for use by facility owners and operators who prepare closure and postclosure cost estimates and by state and EPA regional personnel who review cost estimates. Contains worksheets for estimating closure costs for container storage, treatment and storage tanks, and incineration. (EPA530-SW-87-009A)

11/15/1986

Order Number: PB87-158 994/AS

Order Form: NTIS

Guidance Manual for Cost Estimates for Closure and Postclosure Plans (Subparts G and H); Volume II: Land Disposal Facilities

Assists facility owners and operators and state and EPA regional personnel in developing closure and postclosure cost estimates for land disposal technologies. Contains worksheets for recording cost estimates for closure and postclosure plans. Contains worksheets for estimating all types of closure and postclosure costs and summary worksheets for totalling facility costs. (EPA530-SW-87-009B)

11/15/1986

Order Number: PB87-159 000/AS

Order Form: NTIS

Guidance Manual for Cost Estimates for Closure and Postclosure Plans (Subparts G and H); Volume III: Unit Costs

Contains information and guidance on unit cost ranges and typical unit costs. Explains how unit costs are applied in developing closure and postclosure cost estimates for land disposal technologies. Provides guidance to user in completing worksheets in Volumes I and II. (EPA530-SW-87-009C)

11/15/1986

Order Number: PB87-159 018/AS

Order Form: NTIS

Guidance Manual for Cost Estimates for Closure and Postclosure Plans (Subparts G and H); Volume IV: Documentation

Presents information on sources used for each unit cost in developing closure and postclosure cost estimates for land disposal technologies. Provides examples of all computations performed in developing unit cost and describes assumptions made in developing unit costs.
(EPA530-SW-87-009D) 11/15/1986

Order Number: PB87-159 026/AS Order Form: NTIS

Guidance Manual for Hazardous Waste Incinerator Permits; Final Report

Provides guidance for review and evaluation of permit application information submitted to document compliance with RCRA standards for incineration. Methods are suggested for designating facility-specific operation conditions necessary to ensure compliance with standards. Incineration regulations are addressed. Provides guidance for evaluating incinerator performance data and procedures used in incinerator trial burn.
(EPA SW-966) 07/15/1983

Order Number: PB86-100 577 Order Form: NTIS

Guidance Manual for Research, Development, and Demonstration Permits (40 CFR Section 270.65)

Provides guidance to writers and research, development, and demonstration permit applicants in preparing applications and drafting conditions for permits. Includes answers to frequently asked questions about research, development, and demonstration.
(EPA530-SW-86-008) 07/15/1986

Order Number: PB86-229 192/AS Order Form: NTIS

Guidance Manual on Hazardous Waste Land Treatment Closure/Postclosure (40 CFR Part 265)

Provides general guidance to owners and operators of hazardous waste land treatment units and permit writers on implementing 40 CFR Part 265 closure regulations. Includes general information on hazardous waste land treatment and methods of closure. Addresses the objectives of closure and postclosure, and factors affecting them. Also includes methods for addressing closure and postclosure based on migration potential and management during closure and postclosure.
04/14/1987

Order Number: PB87-183 695 Order Form: NTIS

Guidance Manual on the RCRA Regulation of Recycled Hazardous Wastes

Provides guidance to state and EPA regional personnel who must determine which materials, when recycled, are solid and hazardous wastes. Guidance provided in form of examples illustrating applications of rule to actual recycling practices.
(EPA530-SW-86-015) 03/15/1986

Order Number: PB86-208 584/AS Order Form: NTIS

Guidance on Implementation of the Minimum Technological Requirements of HSWA of 1984, Respecting Liners and Leachate Collection Systems; Reauthorization Statutory Interpretation #5D

Provides further interpretation of minimum technological requirements found in Section 3004(o) and 3015 as relating to liners and leachate collection systems.
(EPA530-SW-85-012) 05/24/1985

Order Number: PB87-163 242/AS Order Form: NTIS

Guidance on Issuing Permits to Facilities Required to Analyze Groundwater for Appendix VIII Constituents

Presents EPA's latest views on analytical potential of each Appendix VIII constituent. Explains how permit writers may exercise discretion under existing regulations to expedite permit issuance where Appendix VIII analyses are required.

02/15/1986

Order Number: PB87-188 082

Order Form: NTIS

Guidance on the Definition and Identification of Commercial Mixed Low-Level Radioactive and Hazardous Waste and Answers to Anticipated Questions

Presents information developed jointly by the Nuclear Regulatory Commission and EPA to aid commercial low-level radioactive waste generators in assessing whether they are currently generating mixed low-level radioactive waste.

10/04/1989

Order Number: EPA530-SW-90-016

Order Form: OSW

Guide for Industrial Waste Management

Presents a comprehensive voluntary industrial waste management guide that identifies best management practices for the full range of nonhazardous industrial wastes. Provides useful information on waste management topics such as siting, designing, operating, monitoring, taking corrective action, and closing industrial waste management units. Designed to assist facility managers, state and tribal environmental managers, and the public in evaluating and choosing protective practices for managing industrial waste in new landfills, waste piles, surface impoundments, and land application units.

Identifies the components of a sound waste management system and discusses why each is important. Includes ground-water and air models, as well as other tools to help tailor waste management practices to a specific facility. Addresses building partnerships with state and tribal managers; characterizing waste; integrating pollution, recycling, and treatment; considering the site; ensuring air quality; protecting surface water and ground water; assessing risk; designing and installing liners; operating the waste management system; monitoring performance; taking corrective action; and performing closure and post-closure. Includes glossary.

02/15/2003

Order Number: EPA530-R-03-001

Order Form: OSW

Guide for Industrial Waste Management (CD-ROM)

Presents an interactive program to teach facility managers, regulatory agency staff, and the public about the management of industrial wastes. Recommends best management practices and key factors to take into account to protect ground water, surface water and ambient air quality in siting, design, operation, monitoring, corrective action, and closure and post-closure care. Details risk-based approaches for choosing liner systems and waste application rates for groundwater protection and to evaluate the need for air controls. Contains interactive audiovisuals for each section of the *Guide for Industrial Waste Management* described above, fact sheets to help better understand why specific chemicals may be a concern, Internet-based mapping application to help identify the geologic conditions when siting new waste management facilities or units, the *Industrial Waste Management Evaluation Model* designed to recommend liner designs that protect ground water, and the *Industrial Waste Air Model* to help determine risks from air emissions from various types of industrial waste units.

02/15/2003

Order Number: EPA530-C-03-002

Order Form: OSW

Guide for Preparing RCRA Permit Applications for Existing Facilities

Provides technical instructions on preparing permit applications for owners and operators of storage and treatment facilities that have hazardous wastes in tanks, containers, or piles. Covers administrative procedures that EPA uses in RCRA permitting program. Includes completed RCRA permit application for a hypothetical storage facility.

01/15/1982

Order Number: PB87-193 371

Order Form: NTIS

Guide to Becoming a Partner in the Resource Conservation Challenge

Explains how to become a partner in the Resource Conservation Challenge. Describes the steps necessary in identifying the environmental problem and defining its challenge; identifying and talking with partners; developing solutions, objectives, targets, implementation plan, and time line; announcing the partnership and agreement; and publicizing major milestones.

10/15/2003

Order Number: EPA530-F-03-055

Order Form: OSW

Guide to the Disposal of Chemically Stabilized and Solidified Waste

Examines regulations, testing procedures, landfill designs, and other options for disposal systems using stabilization and solidification of wastes. Includes a summary of major suppliers of technology, plus a summary of each process used.
(EPA SW-872) 09/15/1982

Order Number: PB87-154 902/AS **Order Form:** NTIS

Guidelines for Assessing the Quality of Life-Cycle Inventory Analysis

Focuses on the inventory analysis component of life cycle analysis (a holistic concept and methodology to identify the environmental consequences of a product, process, or activity throughout its life cycle and to identify opportunities for achieving environmental improvements). Discusses the identification and quantification of raw materials and energy inputs, air emissions, water effluents, solid waste, and other life cycle inputs and outputs. Appendices include data quality indicators and a bibliography.
(EPA530-R-95-010) 04/15/1995

Order Number: PB95-191 235 **Order Form:** NTIS

Haciendo Aún Más Verde ("Greenscaping") su Césped y Jardín (Spanish Translation of "Greenscaping" Your Lawn and Garden)

Anima a consumidores al grasscycle, al pajote, y al estiércol vegetal que reduzcan la cantidad de basura de la yarda. Proporciona los detalles en cómo y lo que al estiércol vegetal. Discute cómo cambiar la cultivación de un huerto a "greenscaping" reduciendo (usando herramientas manuales y menos pesticidas dañosos), reutilizando (recoja el agua de lluvia), reciclando (aceite y llantas usadas de ajardinar los vehículos y equipo), y rebuying (productos de cultivación hechos de los materiales reciclados). Incluido en *Su Vida, Su Mundo, Sus Opiniones: Todo Lo Que Haga Puede Hacer una Diferencia Kit*.

15/02/2004

Número de pedido: EPA530-K-03-002S
Formulario de pedido: OSW

***Handbook of Groundwater Protection and Cleanup Policies for RCRA Corrective Action (Fact Sheet)**

Describes the Handbook of Groundwater Protection and Cleanup Policies for RCRA Corrective Action and its use. Only available on the Internet at <www.epa.gov/correctiveaction/resource/guidance/gw/gwhandbk/gwhbfs.pdf>.

10/15/2001

Order Number: EPA530-F-01-021 **Order Form:** OSW

***Handbook of Groundwater Protection and Cleanup Policies for RCRA Corrective Action for Facilities Subject to Corrective Action Under Subtitle C of the Resource Conservation and Recovery Act**

Developed as part of the RCRA Cleanup Reforms announced by EPA in July 1999 and January 2001. Addresses groundwater protection and cleanup strategy, short-term protection (environmental indicator) goals, intermediate performance goals, final cleanup goals, groundwater cleanup levels, point of compliance, cleanup timeframe source control, groundwater use designations, institutional controls, monitored natural attenuation, technical impracticability reinjection of contaminated groundwater, performance monitoring, and completing groundwater remedies. Updated in April 2004. Appendices include references, links to Internet resources, and a glossary. Available only on the Internet at <www.epa.gov/epaoswer/hazwaste/ca/resource/guidance/gw/gwhandbk/gwhb041404.pdf>.

04/15/2004

Order Number: EPA530-R-04-030 **Order Form:** OSW

Handbook of RCRA Groundwater Monitoring Constituents: Chemical and Physical Properties (Appendix IX to 40 CFR Part 264)

Contains the physical and chemical properties of constituents listed in 40 CFR Part 264 Appendix IX. The handbook organizes groundwater monitoring constituents by Appendix IX name and includes constituents that are being considered for addition to or deletion from Appendix IX.

(EPA530-R-92-022) 09/15/1992

Order Number: PB92-233 287 **Order Form:** NTIS

Handle With Care: How to Throw Out Used Insulin Syringes and Lancets at Home: A Booklet for Young People With Diabetes and Their Families

Offers easy directions and illustrations for young people with diabetes on how to protect family members and waste handlers from injury, while keeping the environment clean and safe. Updates 1990 booklet.

09/15/1999

Order Number: EPA530-K-99-008 Order Form: OSW

Hazardous Waste Characteristics Scoping Study

Presents the findings of OSW's investigation of the potential gaps in the current RCRA waste characterization regulations. Identifies issues such as updating ignitability and reactivity characteristics as per Department of Transportation regulations and examining a broader array of leaching procedures. These areas merit further analysis due to the significant potential for improving hazardous waste management practices and protection to health and the environment.

11/15/1996

Order Number: EPA530-R-96-053 Order Form: OSW

Hazardous Waste Characteristics Scoping Study; Appendices

Provides supplemental information for the Hazardous Waste Characteristics Scoping Study. Includes information on individual environmental releases which are referenced in the study, a discussion of several data sources used to identify environmental releases, and a detailed comparison of the ICR characteristics to related approaches under other federal and state programs.

11/15/1996

Order Number: EPA530-R-96-053a Order Form: OSW

Hazardous Waste Characteristics Scoping Study; Executive Summary

Presents an overview of the findings of OSW's investigation of the potential gaps in the current RCRA waste characterization regulations. Identifies issues such as updating ignitability and reactivity characteristics per Department of Transportation regulations and examining a broader array of leaching procedures. These areas merit further analysis due to the significant potential for improving hazardous waste management practices and protection to health and the environment.

11/15/1996

Order Number: EPA530-S-96-053 Order Form: OSW

Hazardous Waste Facility Permitting Process

Briefly defines hazardous wastes and hazardous waste management facilities in non-technical terms. Lists laws and regulations governing TSDFs. Describes permitting requirements, steps in the permitting process, and public participation. Also available in Spanish.

06/15/1996

Order Number: EPA530-F-96-007

Order Number: EPA530-F-96-007S Order Form: OSW

Hazardous Waste From Discarding of Commercial Chemical Products and the Containers and Spill Residues Thereof (40 CFR 261.33); Identification and Listing of Hazardous Waste Under RCRA, Subtitle C, Section 3001

Provides the basis for regulations concerning discarded commercial products. Defines division of commercial chemical products into two categories: those acutely hazardous and subject to stringent exclusion level, and those hazardous and regulated in the same manner as other hazardous wastes. Regulations concern commercial spill residues and debris and containers and inner liners that contain acutely hazardous chemicals.

(EPA530-SW-89-005)

04/01/1981

Order Number: PB89-126 460

Order Form: NTIS

Hazardous Waste Incineration Permitting Study

Presets the results of a study designed to evaluate incinerator permitting priorities. Study also determines permitting timelines, identifies pertinent issues, and provides an accurate accounting system for hazardous waste incineration facilities.

08/15/1986

Order Number: PB87-202 420

Order Form: NTIS

Hazardous Waste Incineration: Questions and Answers

Provides answers to questions that the public may have about hazardous waste incineration. Discusses the regulatory program for hazardous waste incinerators, permits and the permitting process, and enforcement of permitting operations. Includes the general standards for facilities operating hazardous waste incinerators and potential risks of hazardous waste incineration.

04/15/1988

Order Number: EPA530-SW-88-018

Order Form: OSW

Hazardous Waste Land Treatment

Provides state-of-the-art information on all aspects of hazardous waste land treatment. Refers to people involved in design and design review, beginning with site selection and waste characterization and progressing through facility design, operation, and closure. Fate of both inorganic and organic compounds in a soil environment is included. Provides a basis for development of treatment demonstrations.

(EPA SW-874)

04/15/1983

Order Number: PB89-179 014

Order Form: NTIS

Hazardous Waste Management Planning Needs and Practices: A Review of Several State Agency Approaches

Identifies existing and emerging state hazardous waste management planning needs, describes planning practices designed to address these needs, and relates state observations on the relationship of their planning needs and activities to the federal capacity assurance planning process. Includes an appendix of interview questions.

(EPA530-R-93-010)

08/15/1993

Order Number: PB93-193 225

Order Form: NTIS

Hazardous Waste Program Information Strategy Plan; Waste Information Needs

Discusses the first phase of EPA's Waste Information Needs initiative of the Information Strategy Plan. Designed to provide the EPA hazardous waste program with a framework for gathering information needed to support the program over the long term. Presents findings and recommendations and identifies issues to be resolved before proceeding to the next phase of the Waste Information Needs project.

11/15/1996

Order Number: EPA530-R-96-050

Order Form: OSW

Hazardous Waste Program Information Strategy Plan; Waste Information Needs; Appendices

Presents the supplementary appendices to The Hazardous Waste Program Information Strategy Plan. Includes information needs descriptions, OSW's Strategic Plan, a description of the information engineering methodology, and RCRA program goals and strategies.

11/15/1996

Order Number: EPA530-R-96-050a

Order Form: OSW

Hazardous Waste Requirements for Large Quantity Generators

Summarizes information on identifying hazardous wastes generated, determining generator categories, obtaining EPA identification numbers, preparing waste for shipment off site, obtaining manifests, managing hazardous waste on site, reporting, record keeping, complying with LDRs, and following export/import requirements.

06/15/1996

Order Number: EPA530-F-96-032

Order Form: OSW

Hazardous Waste Tanks Failure Model; Description of Methodology and Appendices A, B, C, D, and E

Evaluates frequency and severity of various failure mechanisms for a variety of hazardous waste treatment and storage tank systems. Demonstrates fault tree techniques and a Monte Carlo simulation model to predict probabilities, magnitudes, and concentrations of releases over a 20-year operating life.

(EPA530-SW-86-012)

01/13/1986

Order Number: PB86-192 937/AS

Order Form: NTIS

Hazardous Waste Tanks Risk Analysis

Analyzes human health risks associated with different regulatory scenarios for tanks that treat, store, or accumulate hazardous waste.

(EPA530-SW-86-011) 06/15/1986

Order Number: PB86-212 289/AS Order Form: NTIS

Health and Environmental Effects Profiles (40 CFR 261); Identification and Listing of Hazardous Waste Under RCRA, Subtitle C, Section 3001

Profiles compiled to support listing of approximately 170 hazardous constituents identified in Appendix VIII.

10/15/1981

Order Number: PB81-190 019 Order Form: NTIS

Hidden Hazards of Backyard Burning

Brochure informing citizens of the health hazards of burning household waste in burn barrels and open piles. Discusses dioxins and other air pollutants. Provides alternatives to burning. Included in the *The Power of Change: Protecting the Environment for the Next Generation Kit*

08/15/2003

Order Number: EPA530-F-03-012 Order Form: OSW

Hospital Waste Combustion Study: Data Gathering Phase; Final Report

Studies hospital waste combustors and applicable regulations. Addresses feed characteristics, combustor designs and operating characteristics, applied and potential control technology, and emissions of air pollutants. Gives number and location of combustors.

(EPA450-R-88-017) 12/15/1988

Order Number: PB89-148 308 Order Form: NTIS

Household Hazardous Waste Management: A Manual for One-Day Community Collection Programs

Helps communities plan for one-day, HHW dropoff and collection programs. Provides community leaders with guidance on all aspects of planning, organizing, and publicizing an HHW collection program.

08/15/1993

Order Number: EPA530-R-92-026 Order Form: OSW

Household Hazardous Waste; Steps to Safe Management

Describes HHW and the dangers of improper disposal. Urges homeowners to reuse, recycle, and properly manage HHW. Also available in Spanish. Included in the *The Power of Change: Protecting the Environment for the Next Generation Kit*

04/15/1993

Order Number: EPA530-F-92-031

Order Number: EPA530-F-92-031S Order Form: OSW

How to Set Up a Local Program to Recycle Used Oil

Presents commitment on grass-roots level. Explains the organization, design, implementation, and promotion of a used oil program, as well as administrative issues. Appendices include sample brochures and letters.

05/15/1989

Order Number: EPA530-SW-89-039A Order Form: OSW

How to Start or Expand a Recycling Collection Program

Provides basic information on establishing recycling collection programs in any setting but focuses on collection in offices. Provides suggestions for expanding or improving an existing collection program. Discusses what materials are recyclable, starting a collection program, finding a market, information needed to sell collected materials, collecting and storing recyclables, educating and motivating employees, and monitoring and evaluating the collection program. Lists sources of additional information.

01/15/1994

Order Number: EPA530-F-94-007 Order Form: OSW

Human Health and Environmental Damages from Mining and Mineral Processing Wastes; Technical Background Document Supporting the Final Rule Applying Phase IV Land Disposal Restrictions to Newly Identified Mineral Processing Wastes

Illustrates the human health and environmental damages caused by management of wastes from mining and mineral processing, particularly damages caused by placing them in land-based units. Presents the process EPA used to develop this document. Summarizes the scope and variety of the damage cases presented. Discusses the mineral commodity sectors, geographical diversity, waste types, waste management practices, and damages covered by the cases. Provides specific illustrative damage cases. Concludes that these examples provide convincing evidence that wastes from mining and mineral processing have caused substantial human health and environmental damages.

(EPA530-R-99-037)

04/15/1998

Order Number: PB99-155 962

Order Form: NTIS

Human Health Risk Assessment Protocol for Hazardous Waste Combustion Facilities; Volume 1: Peer Review Draft

Explains how risk assessments should be performed at hazardous waste combustion facilities. Intended as guidance for personnel conducting risk assessments, and an information resource for permit writers, risk managers, and community relations personnel. Describes the evaluation of direct inhalation risk, but primarily focuses on the procedures used to estimate risk resulting from indirect pathways. Covers facility characterization, air dispersion and deposition modeling, exposure scenario identification, estimation of media concentrations, quantifying exposure, risk and hazard characterization, uncertainty interpretation for human risk assessment process, and completion of risk assessment and follow-on activities. Includes references.

01/15/1998

Order Number: EPA530-D-98-001a

Order Form: OSW

Human Health Risk Assessment Protocol for Hazardous Waste Combustion Facilities; Volume 2: Appendix A: Chemical-Specific Data

Includes chemicals for consideration as compounds of potential concern, target organs and critical effects for constituents with reference doses, compound specific parameter values, and acute inhalation exposure criteria.

01/15/1998

Order Number: EPA530-D-98-001b

Order Form: OSW

Human Health Risk Assessment Protocol for Hazardous Waste Combustion Facilities; Volume 3: Appendix B: Estimating Media Concentration Equations and Variable Values; and Appendix C: Risk Characterization Equations

Appendix B contains soil ingestion equations, consumption of aboveground and belowground produce equations, consumption of animal products equations, consumption of drinking water and fish equations, direct inhalation equation, and acute air concentration equation. Appendix C covers the risk characterization equations.

01/15/1998

Order Number: EPA530-D-98-001c

Order Form: OSW

Hydrologic Evaluation of Landfill Performance (HELP) Model; Volume 1: User's Guide for Version 3

Describes the Hydrologic Evolution of Landfill Performance computer program, a quasi-two-dimensional hydrologic model of water movement across, into, through, and out of landfills. Discusses input and output options, with instructions for running the program. The program was developed to facilitate rapid, economical estimation of the amounts of surface runoff, subsurface drainage, and leachate that may be expected to result from the operation of a wide variety of possible landfill designs. Computer model and documentation may also be downloaded from the US Army Corps of Engineers web site at <www.wes.army.mil/el/elmodels/>.

09/15/1994

Order Number: PB95-212 692

Order Form: NTIS

Hydrologic Evaluation of Landfill Performance (HELP) Model; Volume 2: Engineering Documentation for Version 3

Includes the theories and assumptions on which the Hydrologic Evolution of Landfill Performance model is based. Provides basic program identification and a narrative description of the simulation model. Presents data generation algorithms and default values used in Version 3. Describes the method of solution and hydrologic process algorithms. Lists the assumptions and limitations of the HELP model.

09/15/1994

Order Number: PB95-213 700

Order Form: NTIS

Hydrologic Simulation on Solid Waste Disposal Sites

Describes computer-based model for simulating percolation of precipitation through cover material at solid waste disposal sites. The model can be employed in the evaluation of present cover materials at a landfill or in the design of new or improved landfill covers.

(EPA SW-868)

09/15/1982

Order Number: PB96-163 332

Order Form: NTIS

Identificando Su Residuo: El Punto de Partida (Spanish Translation of *Identifying Your Waste: The Starting Point*)

Este folleto explica la metodología para identificar residuo peligroso bajo la Ley de Conservación y Recuperación de Recursos (RCRA). Describe las seis formas en que la Agencia de Protección Ambiental (EPA) define residuos peligrosos: residuo en "lista" (residuos de fuentes no específicas, residuos de fuentes específicas, productos químicos comerciales descartados), residuo "característico" (inflamabilidad, corrosividad, reactividad, toxicidad), mezcla, "derivado de" residuo, medio contaminado, y escombros contaminados. También explica exclusiones de la definición de residuo peligroso de la RCRA.

15/09/1997

Número de Pedido:

EPA530-F-97-029S

Formulario de Pedido:

OSW

Identification and Description of Mineral Processing Sectors and Waste Streams; Technical Background Document; Final

Presents methodology and data sources used to identify the mineral processing sectors and waste streams. Provides individual commodity reviews, which include a commodity section describing its uses and giving pertinent statistics, a detailed process description with process flow diagrams, and a process waste stream section that identifies individual waste streams. Appendices include detailed explanations of methodology used to estimate annual waste generation rates for the individual waste streams, work sheet for waste stream assessment, definitions for classifying mineral processing waste streams, recycling work sheets for individual mineral processing waste streams, listing of waste streams generated by mineral production activities by commodity, mineral processing sectors generating hazardous wastes, mineral processing sectors not generating hazardous wastes, and a list of commenters.

(EPA530-R-99-022)

04/15/1998

Order Number: PB99-155 970

Order Form: NTIS

Identifying Your Waste: The Starting Point (Brochure)

Explains the methodology for identifying hazardous waste under RCRA, and defines "solid waste" under RCRA. Describes the six ways EPA defines hazardous wastes: "listed" wastes (nonspecific source wastes, specific source wastes, discarded commercial chemical products), "characteristic" wastes (ignitable, reactive, corrosive, toxic), mixtures, "derived-from" wastes, and contaminated media. Also explains exclusions from the RCRA definition of hazardous waste. Also available in Spanish.

09/15/1997

Order Number: EPA530-F-97-029

Order Number: EPA530-F-97-029S

Order Form: OSW

Ignitability Characteristic (40 CFR 261.21); Identification and Listing of Hazardous Waste Under RCRA, Subtitle C, Section 3001

Supports and describes EPA's definition of ignitable waste. Discusses comments received on proposed definition of ignitability.

05/02/1980

Order Number: PB81-187 890

Order Form: NTIS

Implementation of the Mercury-Containing and Rechargeable Battery Management Act

Explains the Mercury-Containing and Rechargeable Battery Management Act of 1996. Provides information on successful recycling programs for rechargeable batteries. Contains a summary of the Battery Act's requirements, as well as a summary of state and federal requirements affecting battery recycling prior to passage of the Battery Act. Specifies why proper disposal or recycling is necessary for nickel and cadmium (Ni-Cd) and small sealed lead acid (SLA) batteries. Defines roles that state and local governments, retailers, businesses, and public agencies can play in establishing recycling programs. Includes sources of additional information and a list of references.
11/15/1997

Order Number: EPA530-K-97-009 **Order Form:** OSW

Implementation Strategy of U.S. Supreme Court Decision in City of Chicago v. EDF for Municipal Waste Combustion Ash; Memorandum

Discusses the May 2, 1994, U.S. Supreme Court opinion, which states that Section 3001(I) of RCRA does not exempt ash generated at resource recovery facilities (i.e., waste-to-energy facilities) burning household wastes and nonhazardous commercial wastes from the hazardous waste requirements of Subtitle C of RCRA. Examines EPA's strategy for assisting waste-to-energy facilities to comply with the RCRA Subtitle C requirements.
05/27/1994

Order Number: EPA530-F-94-021 **Order Form:** OSW

Inactive and Abandoned Noncoal Mines (Complete Set)

Reports on the scope of the environmental, public health, and safety problems presented by inactive and abandoned noncoal mines. Conducts a preliminary identification of policy options for addressing such problems.
(EPA530-R-92-005) 08/15/1991

Order Number: PB92-190 107 **Order Form:** NTIS

Inactive and Abandoned Noncoal Mines—A Scoping Study

Presents the first of a three-volume report on the scope of the environmental, public health, and safety problems presented by inactive and abandoned noncoal mines. Conducts a preliminary identification of policy options for addressing such problems.
(EPA530-R-92-005a) 08/15/1991

Order Number: PB92-190 115 **Order Form:** NTIS

Inactive and Abandoned Noncoal Mines—State Reports

Reports on the scope of the environmental, public health, and safety problems presented by inactive and abandoned noncoal mines. Conducts a preliminary identification of policy options for addressing such problems. This volume contains state reports submitted to the Western Governors' Association. Second of three volumes.
(EPA530-R-92-005b) 08/15/1991

Order Number: PB92-190 123 **Order Form:** NTIS

Inactive and Abandoned Noncoal Mines—Appendix: State Reports

Reports on the scope of the environmental, public health, and safety problems presented by inactive and abandoned noncoal mines. Conducts a preliminary identification of policy options for addressing such problems. This volume contains state reports submitted to the Interstate Mining Compact Commission. Third of three volumes.
(EPA530-R-92-005c) 08/15/1991

Order Number: PB92-190 131 **Order Form:** NTIS

Incineration Standards (40 CFR 264 and 265, Subpart O); Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities Under RCRA, Subtitle C, Section 3004

Describes regulation as originally proposed. Summarizes and responds to comments received and indicates EPA's rationale for final regulations.
12/15/1980

Order Number: PB81-190 092 **Order Form:** NTIS

Indexing of Long-Term Effectiveness of Waste Containment Systems for a Regulatory Impact Analysis

Describes an effectiveness indexing scheme developed to provide input data to a multimedia contaminant fate and transport model used to assess the pollution potential of ground water, surface water, and soil. Proposes a rating (indexing) scheme for assessing the long-term effectiveness of clay caps, synthetic caps, composite clay and synthetic caps, clay liners and synthetic clay liners, the RCRA Subtitle C liner systems, and vertical barrier walls. Based on a review of the literature on initial and potential performance indices of the above mentioned structures.

(EPA530-R-97-024)

01/15/1993

Order Number: PB97-176 86

Order Form: NTIS

*Industrial Surface Impoundments in the US, 1900-2000

Summarizes the EPA's Land Disposal Program Flexibility Act (LDPFA) study and consent decree requirements.

Begins by describing the nature and variety of industrial surface impoundments and the wastewaters they manage. Characterizes the risks to human health or the environment associated with managing decharacterized wastes in CWA treatment systems. Evaluates the extent to which risks are adequately addressed under existing state or Federal programs and whether unaddressed risks could be addressed under these laws or programs.

Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/ldr/icr/ldr-impd.htm#sis>

03/15/2001

Order Number: EPA530-R-01-005

Order Form: OSW

Industrial Waste Air Model Technical Background Document

Provides technical background information on the Industrial Waste Air (IWAIR) model. Accompanies the *Guide for Industrial Waste Management* for use in evaluating inhalation risks. Explains the model selection and gives an overview of CHEMDAT8, emission model input parameters, and mathematical development of emissions. Describes the development of dispersion factors using ISCST3 and how these are used in the model. Addresses the exposure factors used in the model. Details the health benchmarks used in the model and how these were developed if health benchmarks were not available from standard sources. Describes the calculation of risk. Includes references. Appendices contain considering risks from indirect pathways, physical-chemical properties for chemicals included in IWAIR, sensitivity analysis of ISCST3 Air Dispersion Model, and selection of meteorological stations.

08/15/2002

Order Number: EPA530-R-02-010

Order Form: OSW

Industrial Waste Air Model (IWAIR) User's Guide

Describes how to use the *Industrial Waste Air Model (IWAIR)*. Identifies the computer system requirements for running the IWAIR software, gives instructions for installing the software, and introduces the user to program screens and navigational tools. Assists the user in selecting the appropriate calculation method (i.e., forward calculation to risk estimates or backward calculation to protective waste concentration), waste management unit type, and modeling pathway. Provides detailed guidance to develop risk estimates for wastes of known chemical concentration(s). Contains example calculations and references. Appendices include considering risks from indirect pathways, parameter guidance, and physical-chemical property values.

08/15/2002

Order Number: EPA530-R-02-011

Order Form: OSW

Industrial Waste Management: A Guide to Best Practices

Flyer describing the *Guide for Industrial Waste Management*. Defines industrial waste, outlines topics covered in the guide, and explains the information available to specific audiences for the guide. Includes order form for the CD-ROM.

02/15/2003

Order Number: EPA530-F-03-001 Order Form: OSW

Industrial Waste Management Evaluation Model (IWEM) Technical Background Document

Provides technical background information on the Industrial Waste Management Evaluation Model (IWEM). Addresses the assumptions, methodologies, and data used to develop Tier 1 and Tier 2 ground-water impact evaluation tools as part of the *Guide for Industrial Waste Management*

08/15/2002

Order Number: EPA530-R-02-012 Order Form: OSW

Industrial Waste Management Evaluation Model (IWEM) User's Guide

Describes how to use the *Industrial Waste Management Evaluation Model (IWEM)*, the ground-water modeling component of the *Guide for Industrial Waste Management*. Provides the information necessary to perform Tier 1 and Tier 2 analyses for four types of waste management units. Presents an overview of the software. Identifies the computer system requirements for running the IWEM software, gives instructions for installing the software, and introduces the user to program screens and navigational tools.

08/15/2002

Order Number: EPA530-R-02-013 Order Form: OSW

Infectious Waste (40 CFR 250.14); Identification and Listing of Hazardous Waste Under RCRA, Subtitle C, Section 3001

Provides EPA's support and rationale for regulations defining infectious hazardous waste. Specifies the Agency's choice to define infectious waste by location of diseased micro-organisms, defending that source identification as an inclusive and enforceable method of regulation. (EPA530-SW-88-055)

12/15/1978

Order Number: PB89-102 594 Order Form: NTIS

Innovative Methods of Managing Environmental Releases at Mine Sites

Describes source reduction and recycling practices and innovative techniques for waste management currently used in mining. Discusses process control to produce purer products and production of new saleable products while reducing hazardous constituents in the waste stream. Examines recycling opportunities unique to mining, such as slag reprocessing, tailings reprocessing, pipe recycling and reuse, and recycling mine tires. Lists technical contacts familiar with each technology described. (EPA530-R-94-012)

04/15/1994

Order Number: PB94-170 255 Order Form: NTIS

Innovative Uses of Compost: Bioremediation and Pollution Prevention

Describes a new compost technology, known as compost bioremediation, currently being used to restore contaminated soils, manage storm water, control odors, and degrade VOCs. Defines compost bioremediation as the use of a biological system of micro-organisms in a mature, cured compost to sequester or break down contaminants in water or soil. Discusses remediation of soils contaminated by heavy metals, organics, and petroleum hydrocarbons. Addresses vapor-phase biofiltration. Includes references and sources for additional information.

10/15/1997

Order Number: EPA530-F-97-042 Order Form: OSW

Innovative Uses of Compost: Composting of Soils Contaminated by Explosives

Explains how composting of explosive-contaminated soil works. Compares costs and benefits of composting versus combustion. Describes how the Umatilla Army Depot in Hermiston, Oregon, has successfully used composting to convert 15,000 tons of contaminated soil into safe soil containing humus. Includes references and sources for additional information.

10/15/1997

Order Number: EPA530-F-97-045 Order Form: OSW

Innovative Uses of Compost: Disease Control for Plants and Animals

Discusses how compost-enriched soil helps suppress diseases and ward off pests. Describes the mechanisms by which compost helps control plant disease and reduce crop losses. Explains how scientists have created “tailored” compost by enriching it with specific disease-fighting micro-organisms. Addresses benefits of composting for disposing of poultry mortalities. Includes references and sources for additional information.

10/15/1997

Order Number: EPA530-F-97-044 Order Form: OSW

Innovative Uses of Compost: Erosion Control, Turf Remediation, and Landscaping

Discusses tailor-made or specially designed compost and the parameters to consider when customizing a compost mixture: maturity, stability, pH level, density, particle size, moisture, salinity, and organic content. Addresses compost technology used to control erosion in construction and road building. Examines the use of compost to remediate turf grasses and alleviate soil compaction. Reviews the use of compost in landscaping. Includes references and sources for additional information.

10/15/1997

Order Number: EPA530-F-97-043 Order Form: OSW

Innovative Uses of Compost: Reforestation, Wetlands Restoration, and Habitat Revitalization

Addresses the use of compost in reforestation at the Nantahela National Forest and the Qualla Cherokee Reservation, in habitat restoration at the Patuxent Wildlife Research Center Project, and in regaining wetlands at the Clean Washington Center Project and at the Des Plaines River Flood Plain. Includes references and sources for additional information.

10/15/1997

Order Number: EPA530-F-97-046 Order Form: OSW

Inter-Industry Collaborative Study of Toxicity Characteristic Leaching Procedures; Addendum to Compilation of Phase IA and Phase II Data

Reports the final results of the inter-industry TCLP study. Evaluates solid waste leaching procedure under development at EPA. Compares proposed TCLP and extraction procedure toxicity test to estimate the precision and reliability of TCLP and to identify procedural problems in TCLP.

09/15/1986

Order Number: PB87-155 545/AS Order Form: NTIS

Interim Status Standards and General Status Standards for Closure and Postclosure Care (40 CFR 264 and 265, Subpart G); Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities Under RCRA, Subtitle C, Section 3004

Presents the first document in a set of reports accompanying the regulations to control hazardous waste generation, transportation, treatment, storage, and disposal. Describes the Congressional authority and need for this initial effort to regulate hazardous waste. Discusses only the non-technical aspects of closure and postclosure for Interim and General Status Standards. Presents the regulatory rationale, along with analyses of public comments and a list of references.

12/15/1980

Order Number: PB81-189 763 Order Form: NTIS

Interim Status Standards for Land Treatment Facilities (40 CFR 265, Subpart M); Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities Under RCRA, Subtitle C, Section 3004

Provides the rationale for standards pertaining to treatment and disposal of hazardous waste in land treatment facilities. Summarizes regulations as proposed and describes comment analysis and regulatory rationale.

04/15/1980

Order Number: PB81-190 068

Order Form: NTIS

Interim Status Standards for Landfills (40 CFR 265, Subpart N); Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities Under RCRA, Subtitle C, Section 3004

Presents the amendment to RCRA Section 3004 requiring that standards include the location, design, construction, and operation of hazardous waste TSDFs. Records of hazardous wastes treated, stored, or disposed of, and all reporting, monitoring, and inspection also must be included. Attachment includes summaries of comments concerning ignitable wastes in landfills.

02/15/1981

Order Number: PB81-189 789

Order Form: NTIS

Interim Status Standards for Thermal Treatment Processes Other Than Incineration and for Open Burning (40 CFR 265, Subpart P); Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities Under RCRA, Subtitle C, Section 3004

Discusses rationale for the regulation of facilities with hazardous waste thermal treatments other than incineration. Contains analysis of comments relevant to regulations for thermal treatment facilities, including analysis of comments received on proposed regulations.

04/15/1980

Order Number: PB81-189 771

Order Form: NTIS

Interim Status Surface Impoundments; Retrofitting Variances; Guidance Document

Assists both owners and operators of surface impoundments who apply for exemptions under Section 3005(j) of RCRA. Federal and state officials who process applications also can use this as a guide.

(EPA530-SW-86-017)

06/15/1986

Order Number: PB86-212 263/AS

Order Form: NTIS

International Waste Minimization Approaches and Policies to Metal Plating

Provides an overview of the metal plating industry, detailed descriptions of wastes generated by metal plating operations, known waste minimization methods being employed or developed by the industry, and tools for evaluating pollution prevention opportunities. Also presents a review and evaluation of the relevant policies used by the United States and by other Organization for Economic Cooperation and Development member countries to promote or mandate waste minimization.

Appendices include international policy approaches, implication and evaluation of policies, federal and state pollution-prevention plans and policies in the United States, and a list of pollution prevention contacts.

Contains a list of acronyms and abbreviations.

(EPA530-R-96-008)

08/15/1996

Order Number: PB96-196 753

Order Form: NTIS

Introduction to Hard Rock Mining: A CD-ROM Application

Provides an introduction to hard rock mining in the United States. Contains maps of major base metal producing areas, precious metal producing areas, and industrial rock and mineral producing areas. Includes an overview of mining methods: exploration, extraction, and beneficiation. Defines, lists characteristics of, and outlines potential impacts of mining wastes: mine water, waste rock, mill tailings, and spent ore. Addresses pollution prevention. Explains the environmental concerns associated with mining, including acid mine drainage, erosion, sedimentation, chemical releases, fugitive dust emissions, habitat modification, and surface- and ground-water impacts. Contains full text of mining references for Windows 95 users. Requires a sound card to operate.

09/15/1997

Order Number: EPA530-C-97-005

Order Form: OSW

Inventory of Open Dumps

Identifies facilities that do not comply with EPA's Criteria for Classification of Solid Waste Disposal Facilities. Includes a list of facilities, locations, and non-compliance categories.

(EPA SW-964R)

06/15/1985

Order Number: PB91-181 594

Order Form: NTIS

It's Easy Being Green: A Guide to Planning and Conducting Environmentally Aware Meetings and Events

Provides an outline to assist professionals in planning environmentally aware events. Includes profiles of successful events that have been held, as well as step by step procedures for coordinating events using a planning checklist. **Also available in Spanish.**

09/15/1996

Order Number: EPA530-K-96-002

Order Number: EPA530-K-96-002S Order Form: OSW

Jobs Through Recycling Initiative

Summarizes EPA's Jobs Through Recycling Initiative. Describes RBACs, REDAs, and the Recycling Technology Assistance Partnership's National Network. Lists EPA regional office contacts for the initiative.

09/15/1994

Order Number: EPA530-F-94-026 Order Form: OSW

Jobs Through Recycling Program

Relates the significant economic benefits of recycling. Explains EPA's Jobs Through Recycling Initiative to expand markets for recycled materials, stimulate economic development, and create jobs. Describes the four types of JTR grants: RBACs, REDAs, Demonstration Projects, and Investment Forums. Describes how JTR works. Lists benefits of the program. Provides sources for additional information.

12/15/1997

Order Number: EPA530-F-98-001 Order Form: OSW

Joining Forces on Solid Waste Management: Regionalization Is Working in Rural and Small Communities

Presents an introduction to regionalization, the process whereby neighboring cities, towns, and counties pool resources to address local MSW challenges. Discusses some of the advantages and potential barriers associated with regionalization, explains the planning activities that need to precede a multi-jurisdictional project, and describes the different types of organizational approaches that can be used to carry out regional solid waste management activities. Provides five successful regionalization efforts. Includes a resource guide.

10/15/1994

Order Number: EPA530-K-93-001 Order Form: OSW

Joint NRC/EPA Guidance on a Conceptual Design Approach for Commercial Mixed Low-Level Radioactive and Hazardous Waste Disposal Facilities (OSWER Directive #9487.00-8)

Aids states in designing mixed waste land disposal facilities that satisfy regulatory requirements of both the Nuclear Regulatory Commission and EPA. Highlights EPA's double liner and leachate collection and leak detection systems as well as the Nuclear Regulatory Commission's requirement that waste not come in contact with liquids.

08/03/1987

Order Number: EPA530-SW-87-027 Order Form: OSW

Land Disposal Restrictions for Hazardous Wastes: A Snapshot of the Program

Briefly describes the LDR program, which sets treatment standards for all hazardous waste destined for land disposal. Addresses hazardous waste disposal, dilution, and storage. Explains the RCRA definition of solid waste.

12/15/1999

Order Number: EPA530-F-99-043 Order Form: OSW

***Land Disposal Restrictions: Summary of Requirements**

Describes the land disposal restrictions (LDR) program. Addresses who is subject to LDR regulations; the disposal, prohibition, and treatment standards; alternative treatment standards; other prohibitions; recordkeeping requirements; variances, extensions, and exemptions; special issues; and historical context. Written in question and answer format. Appendices include a glossary of terms, a list of regional enforcement contacts, management of remediation wastes under RCRA memorandum, and recommended technologies to achieve deactivation of characteristics. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/ldr/ldr-sum.pdf>.

08/15/2001

Order Number: EPA530-R-01-007 Order Form: OSW

Landfill and Surface Impoundment Performance Evaluation

Describes methods for evaluating designs for landfills and surface impoundments. Includes ways to predict the amount of liquid collected in leachate collection systems and the amount seeping through the liner into underlying soils.

(EPA SW-869R)

04/15/1983

Order Number: PB91-181 586 Order Form: NTIS

Landfill Reclamation

Describes landfill reclamation, a new and innovative technology that meets the federal performance standards of the Criteria for MSWLFs (40 CFR Part 258), used to expand MSWLF capacity and avoid the high cost of acquiring additional land. Discusses the reclamation process: excavation, soil separation (i.e., screening), and processing for reclamation of recyclable material or disposal. Lists steps in project planning: conduct a site characterization study, assess potential economic benefits, investigate regulatory requirements, establish a preliminary worker health and safety plan, and assess project costs. Discusses benefits and drawbacks. Provides case studies. Includes references and sources of additional information.

07/15/1997

Order Number: EPA530-F-97-001 Order Form: OSW

Let's Go Green Shopping

Encourages youth to conserve resources, save energy, and prevent waste by buying products that are energy efficient, used or reusable, made with recycled content, recyclable, and have no packaging or reduced packaging. Lists resources. Also available in Spanish. Included in *Your Life, Your World, Your Choices: Everything You Do Can Make a Difference Kit*.

04/15/2004

Order Number: EPA530-K-04-003

Order Number: EPA530-K-04-003S Order Form: OSW

Liability Coverage; Requirements for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities; A Guidance Manual

Provides help to owners and operators in complying with requirements of liability coverage. Serves as a guide to EPA regional staff in implementing requirements.

(EPA SW-961)

11/15/1982

Order Number: PB83-144 675

Order Form: NTIS

Life Cycle Assessment: Public Data Sources for the LCA Practitioner

Profiles publicly available nonbibliographic databases that might be useful when conducting life cycle assessments. Contains a brief assessment of the potential relevance of the database to a life cycle assessment, a description of the information contained in the database, and basic database system information. Includes less-detailed information on bibliographic databases, database clearinghouses, ongoing studies, and foreign databases. Appendices include a list of acronym definitions, methods for screening databases, and the life cycle assessment database user response form.

(EPA530-R-95-009)

04/15/1995

Order Number: PB95-191 227

Order Form: NTIS

The Life Cycle of a CD or DVD

Poster showing the life cycle of a CD or DVD from obtaining raw materials through manufacture, packaging, distribution, useful life, and disposal. Encourages reuse and recycling. Explains the importance of life cycle management. Includes crafts and other ways to reuse CDs and DVDs. **Also available in Spanish.** Included in the *Your Life, Your World, Your Choices: Everything You Do Can Make a Difference Kit*.

04/15/2003

Order Number: EPA530-H-03-002

Order Number: EPA530-H-03-002S **Order Form:** OSW

The Life Cycle of a Cell Phone

Poster showing the life cycle of a cell phone from obtaining raw materials through manufacture, packaging, distribution, useful life, and disposal. Encourages reuse and recycling. Explains the importance of life cycle management. Contains games and activities. Included in the *Your Life, Your World, Your Choices: Everything You Do Can Make a Difference Kit*.

08/15/2004

Order Number: EPA530-H-04-002

Liner Location Risk and Cost Analysis Model

Documents the first phase of the development of Liner Location Risk and Cost Analysis Model. The model estimates chronic risk to human health from land disposal of hazardous wastes under different technology, location, and waste stream scenarios. Describes the basic model and three policy applications.

01/15/1985

Order Number: PB87-157 210/AS **Order Form:** NTIS

Liner Location Risk and Cost Analysis Model; Appendices

Contains data, results, and descriptions of specific model components and methodologies to serve as a backup to the presentation in main volume. Provides estimates of the probability of system failure and leachate release from hypothetical facilities. Monte Carlo simulation model developed for analysis.

01/15/1985

Order Number: PB87-157 756/AS **Order Form:** NTIS

Lining of Waste Impoundment and Disposal Facilities

Provides current technological information about liner materials that could contain hazardous wastes. Assists in the selection, installation, and maintenance of appropriate liners for specific types of wastes in particular storage or disposal units. Includes test methods for determining waste liner compatibility, liner manufacturers, and materials sources.

(EPA SW-870)

03/01/1983

Order Number: PB86-192 796/AS

Order Form: NTIS

List of Industrial Waste Landfills and Construction and Demolition Waste Landfills

Provides an estimate of the number of industrial and C&D waste landfills in the United States. Presents state summaries, including number of facilities; date of data; list of additional data available from the state list; and the name, address, and telephone number of the contact who provided the information. Contains the state lists of active industrial and C&D waste landfills, sorted by county, city, and name.

(EPA530-R-95-019)

09/30/1994

Order Number: PB95-208 914

Order Form: NTIS

List of Municipal Solid Waste Landfills

Provides list of MSW landfills, including each state and territory. No attempt was made to verify state lists. Includes 3,581 landfills.

06/15/1996

Order Number: EPA530-R-96-006

Order Form: OSW

Listing of Hazardous Waste; Finalization of July 16, 1980, Hazardous Waste List (40 CFR 261.31 and 261.32); Identification and Listing of Hazardous Waste Under RCRA, Subtitle C, Section 3001

Identifies muds from brine purification and wastewater treatment sludges from mercury cell processes as hazardous waste from chlorine production. Discusses toxicity of heavy metal mercury as rationale for listing.

01/12/1981

Order Number: PB81-190 076

Order Form: NTIS

Listing of Hazardous Waste (40 CFR 261.31 and 261.32); Identification and Listing of Hazardous Waste Under RCRA, Subtitle C, Section 3001

Provides technical support for listing 85 waste streams as hazardous waste and proposes listing of 11 new wastes. Discusses comments received on proposed listings and changes made.

5/02/1980

Order Number: PB81-190 035

Order Form: NTIS

Location of Mines and Factors Affecting Exposure

Relates qualitative perspective on risk that mining wastes present. Reports on mine locations, locations of potential receptor populations, environmental characteristics at those locations, and compares selected sites.

(EPA530-SW-86-023)

06/30/1986

Order Number: PB86-219 409/AS

Order Form: NTIS

Location Standards for RCRA Hazardous Waste Facilities; Regulatory Development Plan

Assesses locations for hazardous waste facilities and furnishes guidance criteria identifying areas of vulnerable hydrogeology. Plan includes a statement of purpose, a background, a two-step process approach, issues, alternatives, classification and analysis, and a time schedule for activities.

12/15/1985

Order Number: PB87-162 954/AS

Order Form: NTIS

Long Term Dissolution Testing of Mine Waste

Reports the results of long-term laboratory studies to examine the dissolution of abandoned mine wastes and the consequent drainage quality. Describes the objectives of this study: provision of a description of longer term dissolution of mine waste, provision of data that will facilitate interpretation of shorter term predictive tests, examination of the extent to which acid-producing and acid-consuming components of mine waste will dissolve in the laboratory, and examination of the effect of particle size on the dissolution of the mine waste. Includes 19 tables and 32 figures.

(EPA530-R-95-040)

03/15/1995

Order Number: PB95-260 287

Order Form: NTIS

Long Term Dissolution Testing of Mine Waste; Appendices

Contains the appendices for the long-term laboratory studies examining the dissolution of abandoned mine wastes and the consequent drainage quality. Includes solid phase characterization, wet-dry cycle test, elevated temperature test, particle size experiment, and quality assurance and quality control. Contains a copy of the original contract and contract modifications.

(EPA530-R-95-040a)

03/15/1995

Order Number: PB95-260 295

Order Form: NTIS

***Making Permitting More Efficient and Effective Through the Use of Environmental Management Systems**

Fact sheet defining Environmental Management Systems and explaining the role it can play in the RCRA permitting process. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/permit/ems/ems-fs.pdf>.

08/15/2003

Order Number: EPA530-F-03-039

Order Form: OSW

Making Solid (Waste) Decisions With Full-Cost Accounting

Provides decision-makers with a method of compiling detailed cost information on MSW services in their communities. Briefly defines FCA, which includes direct and indirect operating expenses as well as past and future expenses. Explains how FCA works, along with its benefits and potential barriers. Provides snapshot examples of how communities are using FCA to improve their MSW operations.

07/15/1996

Order Number: EPA530-K-96-001

Order Form: OSW

Management of Hazardous Waste Leachate

Provides guidance for permit officials and disposal site operators on available management options for controlling, treating, and disposing of hazardous waste leachates. Discusses the considerations necessary to develop sound management plans for leachate generated at surface impoundments and landfills.

(EPA SW-871R)

09/15/1982

Order Number: PB91-181 578

Order Form: NTIS

Management of Remediation Waste under RCRA

Consolidates existing guidance on the RCRA regulations and policies that most often affect remediation waste management. Contains information on regulations and policies that affect all remediation waste, that apply only to contaminated media, and that apply only to contaminated debris.

10/14/1998

Order Number: EPA530-F-98-026 Order Form: OSW

Managing Food Scraps as Animal Feed (WasteWise Tip Sheet)

Discusses the collection of food scraps for use as live-stock feed as part of a waste reduction program. Addresses safe storage and handling procedures, permitting and other requirements, locating a farmer, and tips for evaluating the feasibility of establishing a program. Features successful programs by Bell Atlantic and 3M. Includes resources.

09/15/1996

Order Number: EPA530-F-96-037 Order Form: OSW

Managing Hazardous Waste in Your Community

Provides a brief history and summary of RCRA. This kit folder includes a series of fact sheets that provide a basic overview of EPA's hazardous waste regulations, as well as sources for additional information.

01/15/2000

Order Number: EPA530-E-00-001 Order Form: OSW

• Hazardous Waste in Your Community

Explains what requirements must be met under RCRA in order to manage hazardous waste in a safe and protective manner. Discusses generators, transporters, and TSDFs.

Order Number: EPA530-E-00-001a Order Form: OSW

• How Can You Make a Difference in Hazardous Waste Management?

Discusses public's role in the rulemaking process. Includes steps for public participation in the permitting process. Addresses public participation in RCRA corrective action. Explains risk assessment. Defines environmental justice under RCRA.

Order Number: EPA530-E-00-001f Order Form: OSW

• How Does RCRA Work?

Explains how EPA keeps track of who is handling waste and how it's being handled. Discusses issuing permits to facilities that treat, store, or dispose of hazardous waste to dictate how these facilities will operate. Explains how EPA enlists the aid of states to help run RCRA. Addresses penalizing those who are not in compliance with RCRA and requiring cleanup of hazardous waste releases to the environment.

Order Number: EPA530-E-00-001c Order Form: OSW

• Safe Hazardous Waste Recycling

Describes the benefits of hazardous waste recycling, including combustion for energy recovery, use constituting disposal, reclamation, and direct use and reuse. Explains special standards that encourage recycling of certain common hazardous waste, such as used oil, precious metals, and scrap metal. Discusses universal wastes and waste minimization.

Order Number: EPA530-E-00-001d Order Form: OSW

• State Hazardous Waste Contacts

Provides names and addresses for state hazardous waste contacts. Includes information for contacts in U.S. territories.

Order Number: EPA530-E-00-001b Order Form: OSW

• What Makes a Waste Hazardous?

Describes how to identify a RCRA hazardous waste. Explains the different types of hazardous waste. Discusses the different forms of hazardous waste, including mixtures, derived-from wastes, and contaminated media and debris. Addresses hazardous waste exclusions.

Order Number: EPA530-E-00-001e Order Form: OSW

Managing Oil Spills

Poster designed for service station employees on how to manage oil leaks and spills. In Spanish on reverse side.
02/15/2003

Order Number: EPA530-H-02-001
Order Number: EPA530-H-02-001S Order Form: OSW

Managing Used Oil: Advice for Small Businesses

Summarizes EPA's used oil management standards for businesses such as service stations, fleet maintenance facilities, and "quick lube" shops that generate and handle used oil. Provides the regulatory definition of used oil and lists what used oil is and what it is not. Describes different types of businesses that handle used oil. Explains standards businesses should observe when handling used oil and oil filters. Recommends cleanup practices. Also available in Spanish.

11/15/1996

Order Number: EPA530-F-96-004
Order Number: EPA530-F-96-004S Order Form: OSW

Managing Used Motor Oil: Handle Used Motor Oil Safely

Guide for employers and managers of service stations. Outlines proper management of used oil to prevent costly cleanups. In Spanish on reverse side.
02/15/2003

Order Number: EPA530-F-02-029
Order Number: EPA530-F-02-029S Order Form: OSW

Managing Used Motor Oil Order Form

Order form for used oil materials designed for service station use. Materials are available in English and Spanish.
02/15/2003

Order Number: EPA530-F-02-028

Managing Your Hazardous Waste: A Guide for Small Businesses

Provides an overview to help small business owners and operators understand how best to comply with federal hazardous waste management regulations. Defines the three categories of hazardous waste generators: small, large, and conditionally exempt. Assists SQGs in determining if federal regulations apply. Tells how to obtain an EPA identification number, manage waste on site, and ship waste off site. Outlines requirements for CESQGs and a summary of requirements for LQGs. Includes EPA and other federal resource centers and EPA regional contacts. Also available in Spanish.
12/15/2001

Order Number: EPA530-K-01-005
Order Number: EPA530-K-01-005S Order Form: OSW

Manejando Aceite Usado: Consejos para Empresas Pequeñas (Spanish Translation of *Managing Used Oil: Advice for Small Businesses*)

Esta hoja informativa contiene información valiosa para negocios tales como talleres mecánicos, instalaciones de mantenimiento de flotillas de vehículos y talleres de cambio de aceite ("Quick Lube") que generan y manejan aceite usado. Este es un resumen de las normas sobre manejo de aceite usado de la Agencia de Protección Ambiental de los Estados Unidos (EPA). Provee una definición regulativa de la EPA para aceite usado y describe diferente tipos de negocios que manejan aceite usado. La hoja informativa también explica normas que los negocios deben de observar al manejar aceite usado y filtros de aceite. Y también recomienda practicas de limpieza.
15/11/1996

Número de Pedido: EPA530-F-96-004S
Formulario de Pedido: OSW

Manejando sus Residuos Peligrosos: Una Guía para Empresas Pequeñas (Spanish Translation of *Managing Your Hazardous Waste: A Guide for Small Businesses*)

Este folleto es un recurso esencial para dueños de empresas pequeñas que tienen que cumplir con regulaciones federales para el manejo de residuos peligrosos. Define las tres categorías de generadores de residuos peligrosos (pequeñas, grandes, y condicionalmente exentos); asiste a generadores de cantidades pequeñas a determinar si se les aplica regulaciones federales. Explica como obtener un número de identificación de la Agencia de Protección Ambiental (EPA por sus siglas en inglés), manejar desperdicios en sitio, y enviarlos fuera de sitio. Incluye los requisitos para generadores condicionalmente exentos y una descripción para generadores de cantidades grandes. Lista agencias estatales para el manejo de residuos peligrosos, centros de recursos federales, y oficinas regionales de la EPA que pueden ser contactadas para más información.

15/01/2003

Número de Pedido:	EPA530-K-01-005S
Formulario de Pedido:	OSW

Manifest System, Recordkeeping, and Reporting (40 CFR 264 and 265, Subpart E); Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities Under RCRA, Subtitle C, Section 3004

Provides background information, rationale, and supporting data for the standards established for manifest system compliance, record keeping, and reporting at hazardous waste TSDFs.

04/15/1980

Order Number: PB81-190 043	Order Form: NTIS
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Manual de Participación Pública de la RCRA (Spanish Translation of *RCRA Public Participation Manual*)

Este documento es un manual de usuarios para las actividades de participación pública en el proceso de permisos RCRA. Sirve como una guía para mejorar la cooperación y la comunicación entre todos los participantes, y además explica cómo funciona la participación pública en el proceso de permisos de RCRA y cómo los ciudadanos, los reguladores y la industria pueden cooperar para que funcione mejor. Apendices incluyen: lista de contactos de la EPA, lista de contactos de RCRA en los estados, contactos de la Liga de Mujeres Electoras, lista de verificación de la participación pública en justicia ambiental, orientación para grupos consultivos de la comunidad en sitios del Superfondo, regulaciones para/sobre participación pública, Ejemplos de notificaciones públicas de RCRA, ejemplos de herramientas adicionales de participación pública de acuerdo a la RCRA, hoja de información del Proceso de Permisos Para Instalaciones de Desechos Peligrosos, RCRA Norma de Participación Pública Expandida y Folleto, Página Informativa Sobre Modificaciones de Permisos, recursos de participación pública de que dispone la agencia expedidora del permiso, participación pública en actividades dirigidas a hacer cumplir las leyes, guía de acceso a la información de la EPA, y un glosario de acrónimos.

15/06/1996

Número de Pedido:	EPA530-R-96-007S
Formulario de Pedido:	OSW

Manual del Consumidor para Reducir los Desechos Solidos (Spanish Translation of *Consumer's Handbook for Reducing Solid Waste*)

Describe cómo los consumidores pueden reducir el volumen de sus desperdicios cuando saben cómo comprar, usar y por último eliminar los productos y empaques, relacionándolos con la protección del ambiente. Las sugerencias siguen cuatro principios básicos: reducir, reutilizar, reciclar, y acatar. Asimismo ofrece una lista de las agencias estatales ambientales así como también otras publicaciones y fuentes. Solamente disponible en el CD: *A Collection of Solid Waste Resources: Fall 2004 Edition*.

15/10/1994

Número de Pedido:	EPA530-K-92-003S
Formulario de Pedido:	OSW

Manufacturing from Recyclables: 24 Case Studies of Successful Recycling Enterprises

Examines manufacturing from recyclables and demonstrates the benefits to the community from localizing markets for its recyclables. Case studies are categorized alphabetically according to the discarded materials used at different facilities. Each study provides company background, feedstock used with emphasis on scrap materials, manufacturing process, profile of finished products, economics (e.g. cost and savings associated with operating a scrap-based enterprise), replicability (e.g. plans for expansion, relocation, or licensing of its process), and contacts for additional information. Includes list of acronyms, definitions of terms, and resources.

02/15/1995

Order Number: EPA530-R-95-001 *Order Form: OSW*

Markets for Compost

Examines markets for compost. Describes factors affecting the current supply and demand for compost and provides information on future market trends. Discusses the role of composting in MSW management and the need for developing compost markets. Reviews characteristics and benefits of compost and competing and complementary products and compost uses and markets. Examines factors pertinent to developing compost markets, economic and noneconomic barriers to developing compost markets, and strategies to mitigate and overcome barriers to developing compost markets. Appendix provides examples of existing programs and markets. (EPA530-SW-90-073A)

11/15/1993

Order Number: PB94-100 138 *Order Form: NTIS*

Markets for Recovered Aluminum

Examines markets for scrap aluminum. Explores how markets are structured, what influences the supply and demand for aluminum, what projections can be made about the future of markets, and how government policies might affect markets. (EPA530-SW-90-072A)

04/15/1993

Order Number: PB93-170 132 *Order Form: NTIS*

Markets for Recovered Glass

Examines markets for crushed scrap glass. Explores how markets are structured, what influences the supply and demand for glass, what projections can be made about the future of markets, and how government policies might affect markets. (EPA530-SW-90-071A)

12/15/1992

Order Number: PB93-169 845 *Order Form: NTIS*

Markets for Scrap Tires

Discusses the problems associated with scrap tires. Identifies existing and potential source reduction and utilization methods that may be effective in solving the tire problem. (EPA530-SW-90-074A)

10/15/1991

Order Number: PB92-115 252 *Order Form: NTIS*

MarketShare: Tips and Advice from the Jobs through Recycling Program

Provides tips and strategies for developing sustainable and effective recycling market development programs. Documents lessons learned by organizations that received grants through EPA's JTR program. Discusses developing a sustainable program, building infrastructure and networks, outreach, business assistance, financing, measurement, sustainable funding options, and putting it all together.

11/15/1999

Order Number: EPA530-R-99-039 *Order Form: OSW*

*Measuring Progress 1991-2001: The Priority Chemicals Trends Report

Evaluates the progress made in achieving the national goal of a 50 percent reduction in waste minimization priority chemicals since 1991 and will help EPA set priorities for reduction of chemicals. Describes national chemical waste generation and management trends for all and individual priority chemicals and trends for each reporting industrial sector. Uses information from the Toxic Release Inventory (TRI), a national database that identifies facilities, chemicals manufactured and used at the identified facilities, and the annual amounts of these chemicals. Addresses only the 17 chemicals from EPA's priority list that TRI has tracked since 1991. Includes appendices. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/minimize/trends.htm>.

07/15/2004

Order Number: EPA530-R-04-032 *Order Form: OSW*

Measuring Recycling: A Guide for State and Local Governments

Contains instruction, definitions, case studies, tips, forms, and worksheets to help state and local governments calculate an MSW recycling rate. Provides information to help track broad as well as commodity specific categories of recycled materials. Establishes a voluntary, uniform method for calculating recycling rates. Offers advice and recommendations for obtaining accurate data, minimizing double counting, identifying possible errors or omissions in data, establishing relationships with the private sector to obtain commercial recycling data, ensuring the private sector's confidentiality when reporting data, using national waste characterization data to estimate waste generation when disposal data are not available, accounting for imports and exports of MSW and recyclable materials, streamlining and improving data collection, and reducing recycling measurement costs. Appendices include glossary, standard volume-to-weight conversion factors, survey forms, recycling rate worksheets, resources, sample language for Freedom of Information Act exemption, sample cover letters, and a methodology adjusting waste generation.

09/15/1997

Order Number: EPA530-R-97-011 Order Form: OSW

Measuring Recycling: EPA's Voluntary Standard Method (Brochure)

Lists the benefits of measuring recycling. Defines the methodology developed to accurately evaluate the success of a recycling program and to ensure that fiscal, administrative, and planning decisions are sound. Describes Measuring Recycling: A Guide for State and Local Governments and provides an order form for it.

11/15/1997

Order Number: EPA530-F-97-048 Order Form: OSW

Medical Waste Management in the United States: First Interim Report to Congress

Discusses the first of three reports required by Congress in which EPA assesses several aspects of medical waste management and the demonstration program for tracking medical wastes.

(EPA530-SW-90-051A)

05/15/1990

Order Number: PB90-219 874 Order Form: NTIS

Medical Waste Management in the United States: First Interim Report to Congress; Executive Summary

Outlines interim report. Addresses topics specified in RCRA Section 11008(a), including aspects of medical waste management and the demonstration program for tracking medical wastes.

05/15/1990

Order Number: EPA530-SW-90-051B Order Form: OSW

Medical Waste Management in the United States: Second Interim Report to Congress

Addresses the medical waste program pursuant to the Medical Waste Tracking Act of 1988. Reviews key issues leading to the passage of the law, with a detailed analysis of EPA's medical waste program.

(EPA530-SW-90-087A)

12/15/1990

Order Number: PB91-130-187 Order Form: NTIS

Medical Waste Management in the United States: Second Interim Report to Congress; Executive Summary

Outlines the interim report. Briefly describes the five integrated components of EPA's medical waste program, which includes a tracking system, management program, information gathering, research and analysis, education, an outreach and training program, and an enforcement strategy. Provides an update on progress in the characterization of generation and management of medical waste and the development of guidelines for home health care waste.

12/15/1990

Order Number: EPA530-SW-90-087B Order Form: OSW

Medical Waste Tracking Act of 1988

Examines Public Law 100-582, 100th Congress. SWDA was amended to promulgate regulations on management of infectious waste.

11/01/1988

Order Number: EPA530-SW-89-008 Order Form: OSW

Medio Ambientes Delicados y la Ubicación de Instalaciones Para Manejo de Residuos Peligrosos (Spanish Translation of *Sensitive Environments and the Siting of Hazardous Waste Management Facilities*)

Discute tipos de ambientes delicados que plantean un desafío especial para la ubicación, expansión y operación de instalaciones para el manejo de residuos peligrosos. Los lugares que constituyen medio ambientes delicados incluyen: planicies aluviales, humedales, zonas sísmicas, terreno inestable, y otros. Explica los problemas asociados con cada tipo de estos ambientes delicados y ofrece recomendaciones para tratar con estos problemas.
15/05/1997

Número de Pedido: EPA530-K-97-003S
Formulario de Pedido: OSW

Memorandum on Trial Burns (Guidance on Trial Burn Failures)

Clarifies EPA's policy on trial burns for incinerators and BIFs. Addresses issues regarding trial burn failures: what constitutes a successful trial burn, how to handle invalid data, what constitutes an unsuccessful trial burn, how to handle a request for a trial burn retest, and how to restrict operations after an unsuccessful trial burn.
07/05/1994

Order Number: EPA530-F-94-023 **Order Form:** OSW

Memorandum to Monica Chatmon-McEaddy of Office of Solid Waste Regarding Final Treatment Standards for K069 Nonwastewaters in the Calcium Sulfate/Sodium Subcategory and Wastewater Forms of K069

Presents technical support and rationale for the development of treatment standards for K069 nonwastewaters in the calcium sulfate subcategory and wastewater forms of K069. K069 is listed as an emission control dust or sludge from secondary lead smelting.
(EPA530-SW-90-059K) 05/08/1990

Order Number: PB90-234 113 **Order Form:** NTIS

Memorandum to Monica Chatmon-McEaddy of Office of Solid Waste Regarding Final Treatment Standards for Nonwaste-Water and Waste-Water Forms of K100

Presents technical support and rationale for the development of treatment standards for nonwastewater and wastewater forms of K100. K100 is listed as a waste leaching solution from acid leaching of emission control dust or sludge from secondary lead smelting.
(EPA530-SW-90-059L) 05/08/1990

Order Number: PB90-234 121 **Order Form:** NTIS

Memorandum to the Docket Regarding Final Treatment Standards for Nonwaste-Water and Waste-Water Forms of K044, K045, and K047

Summarizes technical support and rationale for treatment standard for nonwastewater and waste-water forms of K044, K045, and K047 as identified in 40 CFR Part 261.32.
(EPA530-SW-90-060B) 05/08/1990

Order Number: PB90-234 295 **Order Form:** NTIS

Metals Control Efficiency Test at a Dry Scrubber and Baghouse Equipped Hazardous Waste Incinerator

Presents test results of air pollution control devices at Illinois incineration unit to determine toxic metals and particulate control efficiencies of spray dryer and fabric filter system. Contributes to EPA's data on control efficiencies that can be achieved by hazardous waste incineration facilities.
(EPA530-SW-91-004) 09/15/1990

Order Number: PB91-101 865 **Order Form:** NTIS

Methodology for Developing Best Demonstrated Available Technology (BDAT) Treatment Standards

Summarizes EPA's approach for implementing the LDR program. Presents the legal authority for regulations, describes technical methodology used to define treatment standards, and discusses the variance from these standards. Presents the Agency's approach to special problems raised by P and U listed hazards.

(EPA530-SW-89-048B) 05/08/1989

Order Number: PB89-221 428 **Order Form: NTIS**

Methods Manual for Compliance with the BIF Regulations: Burning Hazardous Waste in Boilers and Industrial Furnaces

Presents required methods for demonstrating compliance with EPA regulations (40 CFR Part 266, Subpart H) for BIFs burning hazardous waste. Includes performance specifications for continuous emission monitoring of carbon monoxide, oxygen, and hydrocarbons in stack gases, sampling and analytical methods, hazardous waste combustion air quality screening procedures, and procedures for estimating the toxicity equivalence of chlorinated dibenzo-p-dioxin and dibenzofuran congeners.

(EPA530-SW-91-010) 12/15/1990

Order Number: PB91-120 006 **Order Form: NTIS**

Minimum Technology Guidance on Double Liner Systems for Landfills and Surface Impoundments; Design, Construction, and Operation

Provides guidance on designs for surface impoundments required to have two or more liners and for a leachate collection system above and between such liners. Identifies two double-liner systems. Incorporates current state-of-the-art design, construction, and operation of hazardous waste land disposal units.

(EPA530-SW-85-014) 05/24/1985

Order Number: PB87-151 072/AS **Order Form: NTIS**

Minimum Technology Guidance on Single Liner Systems for Landfills, Surface Impoundments, and Waste Piles; Design, Construction, and Operation (Draft)

Identifies design, construction, and operation specifications that can be used by owners and operators to comply with various sections of HSWA. Provides guidance for owners and operators and EPA and state regulatory personnel on designs that the Agency believes meet Section 3015(a) requirements for waste piles.

(EPA530-SW-85-013) 05/24/1985

Order Number: PB87-173 159 **Order Form: NTIS**

Mining Sites in the National Priorities List; NPL Site Summary Reports (Complete Set)

Provides a five volume set covering 48 sites. Includes a series on mining sites on the NPL. Reports prepared to support EPA's mining program activities. Summarizes environmental damages and associated mining waste management practices at sites on, or proposed for, NPL as of February 11, 1991 (56 FR 5598). Based on information obtained from EPA files and reports. An individual report was prepared for each site, following various formats. Maps and charts are included.

(EPA530-SW-91-065) 06/21/1991

Order Number: PB92-124 759 **Order Form: NTIS**

Mining Sites in the National Priorities List; NPL Site Summary Reports, Volume I: Aluminum Company of America (Vancouver Smelter), Anaconda Smelter, Atlas Asbestos Mine, Bunker Hill Mining and Metallurgical Complex, California Gulch, Carson River, Celtor Chemical Works, Cherokee County/Galena Subsite, Cimarron Mining Corporation, Clear Creek/Central City, Cleveland Mill

Presents the final draft for 11 sites. This report series on mining sites on the NPL was prepared to support EPA's mining program activities as of February 11, 1991 (56 FR 5598). Each location is treated individually and summarizes types of environmental damages and associated mining waste management practices.

(EPA530-SW-91-065A) 06/21/1991

Order Number: PB92-124 767 **Order Form: NTIS**

Mining Sites in the National Priorities List; NPL Site Summary Reports, Volume II: Commencement Bay Nearshore/Tideflats, Denver Radium, Eagle Mine, East Helena Smelter, Eastern Michaud Flats Contamination Area, Glen Ridge/Montclair/West Orange/US Radium, Homestake Mill, Iron Mountain Mine, Johns-Manville Coalinga Asbestos Mill, Kerr-McGee (Kress Creek, Reed-Keppler Park, Residential Areas, Sewage Treatment Plant)

Presents the final draft for 10 sites. Summarizes the type of environmental damages and associated mining waste practices for sites on, or proposed for, the NPL as of February 11, 1991 (56 FR 5598). Site history, description, and overview are included. Remedial investigation activities and lists of contamination sources are provided. Identifies sources of hazardous contamination, describes nature and extent of contamination, and determines effects of toxic contamination on natural resources and public health.

(EPA530-SW-91-065B) 06/21/1991

Order Number: PB92-124 775 Order Form: NTIS

Mining Sites in the National Priorities List; NPL Site Summary Reports, Volume III: Kerr-McGee Chemical Corporation (Soda Springs Plant), Lincoln Park, Martin Marietta Reduction Facility, Midvale Slag (Valley Materials Slag), Milltown Reservoir Sediments, Monsanto Chemical Company, Monticello Mill Site, Monticello Vicinity Properties, Mouat Industries, Ormet Corporation

Presents the final draft for 10 sites. Individual reports on environmental damages and associated mining waste practices for sites on or proposed for the NPL as of February 11, 1991 (56 FR 5598). Site investigation, remedial planning and investigation, and remedial action are included for each. Prepared in conjunction with an economic assessment of natural resource injuries and a feasibility study for site cleanup. Cost figures are provided.

(EPA530-SW-91-065C) 06/21/1991

Order Number: PB92-124 783 Order Form: NTIS

Mining Sites in the National Priorities List; NPL Site Summary Reports, Volume IV: Oronogo-Duenweg Mining Belt, Palmerton Zinc, Sharon Steel/Midvale Tailings, Silver Bow Creek/Butte Area Site, Silver Mountain Mine, Smuggler Mountain, St. Louis Airport/Hazelwood Interim/Futura Coatings, Sulphur Bank Mercury Mine, Tar Creek

Presents the final draft for nine sites. Individual reports on environmental damages and associated mining waste practices for sites on or proposed for the NPL as of February 11, 1991 (56 FR 5598). Site investigation, remedial planning and investigation, and remedial actions are included.

(EPA530-SW-91-065D) 06/21/1991

Order Number: PB92-124 791 Order Form: NTIS

Mining Sites in the National Priorities List; NPL Site Summary Reports, Volume V: Teledyne Wah Chang, Tex-Tin Corporation, Torch Lake, United Nuclear Corporation/ Churchrock Site, U.S. Titanium, Uravan Uranium Mill, Whitewood Creek, Wayne Interim Storage Facility/W.R. Grace

Presents the final draft for eight sites. Includes an ongoing remedial investigation and feasibility study with community relations plans. Identifies sources of hazardous contamination, describes nature and extent of contamination, and determines effects of toxic contamination on natural resources and public health.

(EPA530-SW-91-065E) 06/21/1991

Order Number: PB92-124 809 Order Form: NTIS

Mobile Incineration: An Analysis of the Industry

Examines the mobile incineration industry, including the supply of and demand for mobile incineration and an assessment of the mobile incineration market. Examines the mobile incineration business for its potential to absorb excess demand that could not be handled by fixed incineration facilities.

(EPA530-SW-90-076) 06/30/1989

Order Number: PB90-255 449 Order Form: NTIS

Model RCRA Permit for Hazardous Waste Management Facilities

Describes a model permit for assisting permit writers in drafting or reviewing hazardous waste facility permits. Covers process-specific conditions for container storage areas, tanks, incinerators, waste piles, surface impoundments, land treatment areas, and landfills. Also covers groundwater monitoring, corrective action, closure and postclosure, and other general permit and facility conditions.

(EPA530-SW-90-049) 09/15/1988

Order Number: PB90-210 998 Order Form: NTIS

Modifying RCRA Permits

Discusses the concepts behind permits required for hazardous waste TSDFs. Compares the old process with the new one where permits can be modified to allow improvements in equipment and changes in response to new standards. Processes are compared, with discussions of Class One, Two, and Three Modifications.

09/15/1989

Order Number: EPA530-SW-89-050 Order Form: OSW

Monitoring Science in the RCRA Program (Kit Folder)

Contains a series of fact sheets providing details on the activities of the methods team, the focal point within OSW for expertise in analytical chemistry and characteristic testing methodology, environmental monitoring, and quality assurance. Includes information on *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods* (SW-846), a multi-volume compendium of EPA-accepted methods and monitoring guidance; the annual Waste Testing and Quality Assurance Symposium; and the Methods Information Communication Exchange Service, a hotline providing answers to questions and taking comments over the telephone on technical issues regarding the test methods compendium. Also addresses performance-based measurement systems in the RCRA program and the OSW methods development, evaluation, and approval process.

03/15/1999

Order Number: EPA530-E-99-001 Order Form: OSW

*More Recycling and Reuse Proposed for Electronic Wastes and Mercury-Containing Equipment

Fact sheet announcing EPA's proposal revising existing regulations in order to promote the safe reuse and recycling of cathode ray tubes and mercury-containing equipment. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/recycle/electron/crtprop.pdf>.

04/15/2002

Order Number: EPA530-F-02-018 Order Form: OSW

Moving Out, Moving In: Making Environmental Choices When You Move

Suggests environmentally safe alternatives to throwing away unwanted "junk" and shows consumers how to purchase new items with the environment in mind. Provides ideas for reuse or recycling of items no longer wanted and for the safe management and disposal of common household products. Lists resources. Included in *The Power of Change: Protecting the Environment for the Next Generation Kit*.

02/15/2004

Order Number: EPA530-K-04-002 Order Form: OSW

Moving Targets

Fact sheet addressing greenhouse gas emissions from the collection and transportation of waste and recyclables. Discusses clean energy transportation by switching from diesel to landfill-derived fuel and route optimization. Also available in the kit folder *Climate Change and Waste*.

07/15/2002

Order Number: EPA530-F-02-020 Order Form: OSW

Multifamily Recycling: A Golden Opportunity for Solid Waste Reduction

Addresses provision of cost-effective, convenient recycling services to residents of multifamily buildings. Describes the diversion rates, costs, and common elements of high performing multifamily recycling programs.

04/15/1999

Order Number: EPA530-F-99-010 Order Form: OSW

Multifamily Recycling: A National Study

Summarizes the results of the first national study of multifamily recycling, including a description of services provided, a presentation of measures indicating the effectiveness of these programs, and a discussion of factors that were associated with those programs that achieved the highest diversion rates. Appendices include methodology, definitions, and individual program information. Includes tables and figures.

11/15/2001

Order Number: EPA530-R-01-018 Order Form: OSW

Municipal Solid Waste Characterization Report: 2001 Facts and Figures

Characterizes current trends and highlights changes in municipal solid waste management (MSW) that have occurred over time. Discusses methodology, characterization of MSW by weight, management of MSW, and source reduction of MSW. Appendices include material flows methodology, source reduction/expansion for individual components of MSW, and consumer electronics in MSW.

10/15/2003

Order Number: EPA530-R-03-011 Order Form OSW

Municipal Solid Waste Characterization Report: 2001 Facts and Figures; Executive Summary

Summarizes current trends and highlights changes in municipal solid waste management. Briefly describes the methodology used to characterize MSW in the United States and provide the latest facts and figures on MSW generation, recycling, and disposal.

10/15/2003

Order Number: EPA530-S-03-011 Order Form OSW

Municipal Solid Waste Flow Control: Summary of Public Comments

Summarizes public comments received by EPA in preparation of the Agency's Report to Congress on Municipal Solid Waste Flow Control. Reviews the positions of interested parties on flow controls; does not reflect EPA's position on any of the issues raised. Identifies six issue areas: the impacts of flow controls on solid waste management and capacity, impacts on the source reduction and recycling, the impacts on economics, the impacts on recyclable material, the impacts on human health and the environment, and alternatives to flow controls. Includes a list of commenters.

(EPA530-R-94-008)

02/08/1994

Order Number: PB96-163 407 Order Form: NTIS

Municipal Solid Waste Source Reduction: A Snapshot of State Initiatives

Examines state source reduction activities across the U.S. Highlights state goals or mandates that call for source reduction. Describes source reduction activities, reuse programs, and procurement guidelines in place within state operations and facilities. Addresses residential programs targeted to consumers and households. Presents state efforts to assist the business community in learning about source reduction options. Relates state assistance to municipal source reduction programs, primarily in the form of grants and other technical assistance. Includes exhibits and tables.

12/15/1998

Order Number: EPA530-R-98-017 Order Form: OSW

Municipal Waste Combustion Ash and Leachate Characterization; Monofill Baseline Year; Woodburn Monofill; Woodburn, Oregon

Documents sampling and analysis of both liquids and solids from a relatively young MSW combustion residue monofill. Part of a long-term study.

(EPA530-SW-89-074)

08/15/1989

Order Number: PB90-104 746 Order Form: NTIS

Municipal Waste Combustion Study (Complete Set)

Analyzes health risks and environmental problems caused by pollutants emitted from municipal waste combustors. Describes MWC industry and depicts trends. Series of nine volumes.
(EPA530-SW-87-021) 09/15/1987

Order Number: PB87-206 066 *Order Form: NTIS*

Municipal Waste Combustion Study: Assessment of Health Risks Associated With Exposure to Municipal Waste Combustion Emissions

Analyzes health risks and environmental problems because of pollutants emitted from MWC. Volume 7 in nine-part series.
(EPA530-SW-87-021G) 09/15/1987

Order Number: PB87-206 132 *Order Form: NTIS*

Municipal Waste Combustion Study: Characterization of the Municipal Waste Combustion Industry

Describes the MWC industry and depicts trends and growth in the industry. Volume 8 in nine-part series.
(EPA530-SW-87-021H) 06/15/1987

Order Number: PB87-206 140 *Order Form: NTIS*

Municipal Waste Combustion Study: Control of Organic Emissions

Describes an assessment of combustion control of organic emissions from municipal waste combustors. Information developed during a study of MWC concerned with the best combustion practices to minimize emissions of organics. Focuses on the design of new units, and the operation and monitoring of new and existing units from viewpoint of combustor and boiler subsystems. Volume 3 in nine-part series.
(EPA530-SW-87-021C) 06/15/87

Order Number: PB87-206 090 *Order Form: NTIS*

Municipal Waste Combustion Study: Costs of Flue Gas Cleaning Technologies

Assesses the emission control costs for municipal waste combustors. Volume 5 in nine-part series.
(EPA530-SW-87-021E) 06/15/1987

Order Number: PB87-206 116 *Order Form: NTIS*

Municipal Waste Combustion Study: Emissions Data Base for Municipal Waste Combustors

Provides a compilation of emission data for municipal waste combustors. Information developed during a study of MWC. The purpose of the document is to compile U.S. and Canadian data on emissions of pollutants of concern from MWC. The document also is intended to compile similar data from European and Japanese sources. The report also reduces test data into consistent units of measure and reference and presents data in common format. Volume 2 in nine-part series.
(EPA530-SW-87-021B) 06/15/1987

Order Number: PB87-206 082 *Order Form: NTIS*

Municipal Waste Combustion Study: Flue Gas Cleaning Technology

Provides results of flue gas cleaning technology study applied to municipal waste combustors. Includes control and effectiveness studies. Volume 4 in nine-part series.
(EPA530-SW-87-021D) 06/15/1987

Order Number: PB87-206 108 *Order Form: NTIS*

Municipal Waste Combustion Study: Recycling of Solid Waste

Assesses recycling solid waste as an alternative or augmentative waste management strategy to MWC. Volume 9 in nine-part series.
(EPA530-SW-87-021I) 06/15/1987

Order Number: PB87-206 157 *Order Form: NTIS*

**Municipal Waste Combustion Study:
Report to Congress**

Provides an overview of entire MWC study. Conducted in response to Section 102, HSWA, 1984. Discusses numbers and types of existing and projected facilities, estimates of emissions, options for controlling emissions, risks from emissions, and potential for control. Costs and sampling, analysis, and monitoring of emissions are examined. Volume 1 in nine-part series.

(EPA530-SW-87-021A) 06/15/1987

Order Number: PB87-206 074 **Order Form: NTIS**

**Municipal Waste Combustion Study:
Sampling and Analysis**

Outlines recommended sampling, analysis and monitoring procedures for MSW combustion facilities. Volume 6 in nine-part series.

(EPA530-SW-87-021F) 06/15/1987

Order Number: PB87-206 124 **Order Form: NTIS**

**National Biennial RCRA Hazardous Waste
Report (Based on 1993 Data) (Complete
Set)**

Presents a detailed census based on hazardous waste reports that are filed by generators and managers of RCRA hazardous waste. Reports on RCRA hazardous waste generation and management as well as interstate transport of hazardous waste.

(EPA530-R-95-039) 08/15/1995

Order Number: PB95-243 093 **Order Form: NTIS**

**National Biennial RCRA Hazardous Waste
Report (Based on 1993 Data); Executive
Summary**

Provides an overview of national hazardous waste generation and management practices, based on EPA's 1993 biennial report. Includes tables showing the quantity of RCRA hazardous waste generated, the number of hazardous waste generators by state, the quantity of RCRA hazardous waste managed, and the number of TSDFs by state.

08/15/1995

Order Number: EPA530-S-95-039 **Order Form: OSW**

**National Biennial RCRA Hazardous Waste
Report (Based on 1993 Data): List of
Large Quantity Generators in the United
States**

Lists LQGs of RCRA hazardous waste, as identified by EPA's 1993 biennial report. Provides information on the quantities, nature, and disposition of generated hazardous waste and the efforts to reduce the volume and toxicity of hazardous waste compared with previous years. Generator lists are arranged by state, and each state list is grouped by tons of RCRA waste generated. Includes a list of state contacts.

(EPA530-R-95-039a) 08/15/1995

Order Number: PB95-243 101 **Order Form: NTIS**

**National Biennial RCRA Hazardous Waste
Report (Based on 1993 Data): List of
Treatment, Storage, and Disposal
Facilities in the United States**

Lists TSDFs by state, as identified by EPA's 1993 biennial report. Includes EPA identification numbers, names, locations, and tons of RCRA waste managed for each facility.

(EPA530-R-95-039b) 08/15/1995

Order Number: PB95-243 119 **Order Form: NTIS**

**National Biennial RCRA Hazardous Waste
Report (Based on 1993 Data): National
Analysis**

Analyzes the generation, management, and final disposition of RCRA hazardous wastes, as reported in EPA's 1993 biennial report. Includes waste generation, waste management, shipments and receipts, and imports and exports. Appendices contain system type codes and RCRA hazardous waste codes.

(EPA530-R-95-039c) 08/15/1995

Order Number: PB95-243 127 **Order Form: NTIS**

National Biennial RCRA Hazardous Waste Report (Based on 1993 Data): State Detail Analysis

Provides a detailed look at waste handling in EPA regions, states, and at the largest facilities in the nation. Includes information on quantities of waste generation, management, and shipments and receipts, as well as information on interstate imports and exports of RCRA hazardous wastes. Also provides totals for the 50 largest facilities in each state.

(EPA530-R-95-039d)

08/15/1995

Order Number: PB95-243 135

Order Form: NTIS

National Biennial RCRA Hazardous Waste Report (Based on 1993 Data): State Summary Analysis

Provides two-page overview of RCRA hazardous waste generation and management practices of individual states, as reported in EPA's 1993 biennial report. Includes total number of LQGs; total quantity of RCRA hazardous waste generated; 10 largest RCRA hazardous waste generators and quantities generated in 1993, with locations on a map; quantity of hazardous waste generated that was characteristic waste, listed waste, or both; 10 largest RCRA hazardous waste managers and quantities managed in 1993, with location on a map; top management method; and imports and exports.

(EPA530-R-95-039e)

08/15/1995

Order Number: PB95-243 143

Order Form: NTIS

National Biennial RCRA Hazardous Waste Report (Based on 1995 Data) (Complete Set)

Provides an overview of national hazardous waste generation and management practices, based on analyses of 1995 data. Includes a summary analysis of the amount of hazardous waste generated in the United States in 1995, methods used to manage this waste, and shipments and receipts of the waste. Data are provided for the nation as well as the individual states.

(EPA530-R-97-022)

08/15/1997

Order Number: PB97-181 465

Order Form: NTIS

National Biennial RCRA Hazardous Waste Report (Based on 1995 Data); Executive Summary

Provides an overview of national hazardous waste generation and management practices, based on EPA's 1995 biennial report. Includes tables showing the quantity of RCRA hazardous waste generated, the number of hazardous waste generators by state, the quantity of RCRA hazardous waste managed, and the number of TSDFs by state.

08/15/1997

Order Number: EPA530-S-97-022

Order Form: OSW

National Biennial RCRA Hazardous Waste Report (Based on 1995 Data): List of Large Quantity Generators in the United States

Lists LQGs of RCRA hazardous waste, as identified by EPA's 1995 biennial report. Provides information on the quantities, nature, and disposition of generated hazardous waste and the efforts to reduce the volume and toxicity of hazardous waste compared with previous years. Generator lists are arranged by state, and each state list is grouped by tons of RCRA waste generated.

(EPA530-R-97-022a)

08/15/1997

Order Number: PB97-181 473

Order Form: NTIS

National Biennial RCRA Hazardous Waste Report (Based on 1995 Data): List of Treatment, Storage, and Disposal Facilities in the United States

Lists TSDFs, as identified by EPA's 1995 biennial report, by state. Includes a facility's EPA identification number, name, location, and tons of RCRA waste managed.

(EPA530-R-97-022b)

08/15/1997

Order Number: PB97-181 481

Order Form: NTIS

National Biennial RCRA Hazardous Waste Report (Based on 1995 Data): National Analysis

Analyzes the generation, management, and final disposition of RCRA hazardous wastes, as reported in EPA's 1995 biennial report. Includes waste generation, waste management, shipments and receipts, and imports and exports. Appendices contain system type codes and EPA hazardous waste codes.

(EPA530-R-97-022c) 08/15/1997

Order Number: PB97-181 499 Order Form: NTIS

National Biennial RCRA Hazardous Waste Report (Based on 1995 Data): State Detail Analysis

Provides a detailed look at waste handling in EPA regions, states, and at the largest facilities in the nation. Includes information on quantities of waste generation, management, and shipments and receipts, as well as information on interstate imports and exports of RCRA hazardous wastes. Also provides totals for the 50 largest facilities in each state.

(EPA530-R-97-022d) 08/15/1997

Order Number: PB97-181 507 Order Form: NTIS

National Biennial RCRA Hazardous Waste Report (Based on 1995 Data): State Summary Analysis

Provides two-page overview of RCRA hazardous waste generation and management practices of individual states, as reported in EPA's 1995 biennial report. Includes total number of LQGs; total quantity of RCRA hazardous waste generated; 10 largest RCRA hazardous waste generators and their generated quantities for 1995, with map locations; quantity of hazardous waste generated that was characteristic waste, listed waste, or both; 10 largest RCRA hazardous waste managers and their quantities for 1995, with location; top management method; and imports and map exports.

(EPA530-R-97-022e) 08/15/1997

Order Number: PB97-181 515 Order Form: NTIS

National Biennial RCRA Hazardous Waste Report (Based on 1997 Data) (Complete Set)

Provides an overview of national hazardous waste generation and management practices, based on analyses of 1997 data. Includes a summary analysis of the amount of hazardous waste generated in the United States in 1997, methods used to manage this waste, and shipments and receipts of the waste. Data are provided for the nation as well as the individual states.

(EPA530-R-99-036) 09/15/1999

Order Number: PB99-166 811 Order Form: NTIS

National Biennial RCRA Hazardous Waste Report (Based on 1997 Data); Executive Summary

Provides an overview of national hazardous waste generation and management practices, based on EPA's 1997 biennial report. Includes tables showing the quantity of RCRA hazardous waste generated, the number of hazardous waste generators by state, the quantity of RCRA hazardous waste managed, and the number of TSDFs by state.

09/15/1999

Order Number: EPA530-S-99-036 Order Form: OSW

National Biennial RCRA Hazardous Waste Report (Based on 1997 Data): List of Large Quantity Generators in the United States

Lists LQGs of RCRA hazardous waste, as identified by EPA's 1997 biennial report. Provides information on the quantities, nature, and disposition of generated hazardous waste and the efforts to reduce the volume and toxicity of hazardous waste compared with previous years. Generator lists are arranged by state, and each state list is grouped by tons of RCRA waste generated.

(EPA530-R-99-036a) 09/15/1999

Order Number: PB99-166 829 Order Form: NTIS

National Biennial RCRA Hazardous Waste Report (Based on 1997 Data): List of Treatment, Storage, and Disposal Facilities in the United States

Lists TSDFs, as identified by EPA's 1997 biennial report, by state. Includes a facility's EPA identification number, name, location, and tons of RCRA waste managed.
(EPA530-R-99-036b) 09/15/1999

Order Number: PB99-166 837 **Order Form: NTIS**

National Biennial RCRA Hazardous Waste Report (Based on 1997 Data): National Analysis

Analyzes the generation, management, and final disposition of RCRA hazardous wastes, as reported in EPA's 1997 biennial report. Includes waste generation, waste management, shipments and receipts, and imports and exports. Appendices contain system type codes and EPA hazardous waste codes.
(EPA530-R-99-036c) 09/15/1999

Order Number: PB99-166 845 **Order Form: NTIS**

National Biennial RCRA Hazardous Waste Report (Based on 1997 Data): State Detail Analysis

Provides a detailed look at waste handling in EPA regions, states, and at the largest facilities in the nation. Includes information on quantities of waste generation, management, and shipments and receipts, as well as information on interstate imports and exports of RCRA hazardous wastes. Also provides totals for the 50 largest facilities in each state.
(EPA530-R-99-036d) 09/15/1999

Order Number: PB99-166 852 **Order Form: NTIS**

National Biennial RCRA Hazardous Waste Report (Based on 1997 Data): State Summary Analysis

Provides two-page overview of RCRA hazardous waste generation and management practices of individual states, as reported in EPA's 1997 biennial report. Includes total number of LQGs; total quantity of RCRA hazardous waste generated; 10 largest RCRA hazardous waste generators and their generated quantities for 1997, with map locations; quantity of hazardous waste generated that was characteristic waste, listed waste, or both; 10 largest RCRA hazardous waste managers and their quantities for 1997, with location; top management method; and imports and map exports.
(EPA530-R-99-036e) 09/15/1999

Order Number: PB99-166 860 **Order Form: NTIS**

National Biennial RCRA Hazardous Waste Report (Based on 1999 Data) (Complete Set)

Provides an overview of national hazardous waste generation and management practices, based on analyses of 1999 data. Includes a summary analysis of the amount of hazardous waste generated in the United States in 1997, methods used to manage this waste, and shipments and receipts of the waste. Data are provided for the nation as well as the individual states.
06/15/2000

Order Number: PB2001-106 301 **Order Form: NTIS**

National Biennial RCRA Hazardous Waste Report (Based on 1999 Data); Executive Summary

Provides an overview of national hazardous waste generation and management practices, based on EPA's 1999 biennial report. Includes tables showing the quantity of RCRA hazardous waste generated, the number of hazardous waste generators by state, the quantity of RCRA hazardous waste managed, and the number of TSDFs by state.
06/15/2001

Order Number: EPA530-S-01-001 **Order Form: OSW**

National Biennial RCRA Hazardous Waste Report (Based on 1999 Data): List of Large Quantity Generators

Lists LQGs of RCRA hazardous waste, as identified by EPA's 1999 biennial report. Provides information on the quantities, nature, and disposition of generated hazardous waste and the efforts to reduce the volume and toxicity of hazardous waste compared with previous years. Generator lists are arranged by state, and each state list is grouped by tons of RCRA waste generated. (EPA530-R-01-013) 06/15/2001

Order Number: PB2001-106 317 **Order Form:** NTIS

National Biennial RCRA Hazardous Waste Report (Based on 1999 Data): List of Treatment, Storage, and Disposal Facilities

Lists TSDFs, as identified by EPA's 1999 biennial report, by state. Includes a facility's EPA identification number, name, location, and tons of RCRA waste managed. (EPA530-R-01-012) 06/15/2001

Order Number: PB2001-106 316 **Order Form:** NTIS

National Biennial RCRA Hazardous Waste Report (Based on 1999 Data): National Analysis

Analyzes waste-handling practices in the EPA Regions, states, and the largest facilities nationally, including the quantity of waste generated, managed, shipped and received, and imported and exported between states. Also contains the number of generators and managing facilities. (EPA530-R-01-009) 06/15/2001

Order Number: PB2001-106 313 **Order Form:** NTIS

National Biennial RCRA Hazardous Waste Report (Based on 1999 Data): State Detail Analysis

Provides a detailed look at each state's waste handling practices, including overall totals for generation, management, and shipments and receipts, as well as totals for the largest fifty facilities. (EPA530-R-01-011) 06/15/2001

Order Number: PB2001-106 315 **Order Form:** NTIS

National Biennial RCRA Hazardous Waste Report (Based on 1999 Data): State Summary Analysis

Provides two-page overview of RCRA hazardous waste generation and management practices of individual states, as reported in EPA's 1997 biennial report. Includes total number of LQGs; total quantity of RCRA hazardous waste generated; 10 largest RCRA hazardous waste generators and their generated quantities for 1997, with map locations; quantity of hazardous waste generated that was characteristic waste, listed waste, or both; 10 largest RCRA hazardous waste managers and their quantities for 1999, with location; top management method; and imports and map exports. (EPA530-R-01-010) 06/15/2001

Order Number: PB2001-106 314 **Order Form:** NTIS

***National Biennial RCRA Hazardous Waste Report (Based on 2001 Data): List of Reported RCRA Sites**

Lists every hazardous waste facility in the US that submitted a hazardous waste report in 2001. Organized by state and arranged alphabetically by facility, each entry includes EPA identification number, location city, tons of RCRA hazardous waste generated, and tons of RCRA hazardous waste managed. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/data/brs01/list.pdf>.

07/15/2003

Order Number: EPA530-R-03-009 **Order Form:** OSW

***National Biennial RCRA Hazardous Waste Report (Based on 2001 Data): National Analysis**

Presents a detailed look at waste-handling practices in the EPA regions, states, and largest facilities nationally, including the quantity of waste generated, managed, shipped and received, and imported and exported between States and the number of generators and managing facilities. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/data/brs01/national.pdf>.

07/15/2003

Order Number: EPA530-R-03-007 **Order Form:** OSW

***National Biennial RCRA Hazardous Waste Report (Based on 2001 Data): State Detail Analysis**

Provides a detailed look at each State's waste handling practices, including overall totals for generation, management, and shipments and receipts, as well as totals for the largest fifty facilities. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/data/brs01/state.pdf>.

07/15/2003

Order Number: EPA530-R-03-008 Order Form: OSW

National Capacity Assessment Report; Capacity Planning Pursuant to CERCLA Section 104(c)(9)

Discusses CERCLA Section 104(c)(9), which requires states to assure that adequate capacity exists to treat and dispose of hazardous wastes. Describes EPA's requirement that adequate national capacity exists and the methodology and data used to conduct the assessment used to make this determination. Appendices include demand data submitted by the states, commercial capacity data submitted by the states, adjustments to commercial capacity data, list of facilities, and Capacity Assurance Plan management categories.

(EPA530-R-95-016) 11/15/1996

Order Number: PB95-209 672 Order Form: NTIS

National Dioxin Study

Documents a 2-year study to investigate dioxin contamination. Includes the National Dioxin Strategy to provide coordinated management framework for investigative, remedial, and regulatory activities.

(EPA530-SW-87-025) 08/15/1987

Order Number: PB88-192 687 Order Form: NTIS

National Small Quantity Hazardous Waste Generator Survey; Final Report

Presents the results of voluntary survey of generators of hazardous waste who produce less than 1,000 kg of hazardous waste per month. Designed to obtain reliable estimates of the number and type of SQGs and waste generation and management practices. Describes purpose and scope, background of RCRA and HSWA, methodology of survey, and results. Includes sample questionnaire and detailed industry and waste stream profiles for SQGs.

(EPA530-SW-85-004) 02/15/1985

Order Number: PB85-180 438 Order Form: NTIS

National Source Reduction Characterization Report for Municipal Solid Waste in the United States

Estimates the amount of waste not created over a certain period of time. Examines factors that drive waste prevention activities, such as changes in design practices, operational changes, policy trends, and new technologies. Explains the methodology used to generate all the source reduction estimates presented in the report. Provides data on source reduction for the MSW stream as a whole, as well as for its component materials and product categories. Profiles source reduction activities of individual organizations, featuring backyard composting, elimination of unnecessary packaging, lightweighting, and material reuse. Includes glossary and appendices.

11/15/1999

Order Number: EPA530-R-99-034 Order Form: OSW

National Survey of Hazardous Waste Generators and Treatment, Storage, Disposal and Recycling Facilities in 1986: Hazardous Waste Generation and Management

Presents the findings of two extensive surveys conducted by mail during a 3-year period to obtain detailed information concerning hazardous waste generation and management practices. Includes survey overview, hazardous waste generation, types of waste generated, hazardous waste management methods, and the changes since 1986 that affect waste management. Includes detailed charts.

(EPA530-SW-91-075) 10/15/1991

Order Number: PB92-123 025 Order Form: NTIS

National Survey of Hazardous Waste Generators and Treatment, Storage, Disposal and Recycling Facilities in 1986: Hazardous Waste Management in RCRA TSDR Units

Presents the initial findings of two, 3-year long national mail surveys to gather information about hazardous waste generation and management practices. Surveys focused on hazardous waste handlers regulated under Subtitle C, RCRA, and HSWA.

(EPA530-SW-91-060) 07/15/1991

Order Number: PB91-211 821 Order Form: NTIS

National Survey of Hazardous Waste Generators and Treatment, Storage, and Disposal Facilities Regulated under RCRA in 1981

Summarizes the findings of national survey of hazardous waste generators and TSDFs regulated under RCRA Subtitle C. The mail survey was conducted during fall and spring of 1982 to 1983 under sponsorship of OSW. This information provided EPA with first complete description of hazardous waste management and generation activities regulated under federal law since RCRA was enacted in 1976.

(EPA530-SW-84-005) 04/20/1984

Order Number: PB86-197 837/AS Order Form: NTIS

National Survey of Solid Waste (Municipal) Landfill Facilities

Describes the methodology and results of national survey of Subtitle D municipal landfill facilities conducted in response to HSWA. HSWA required EPA to conduct a study to determine whether regulations are adequate to protect human health and the environment. EPA also was required to report results of the study to Congress and to revise regulations for facilities that receive SQG waste and HHW.

(EPA530-SW-88-034) 09/15/1988

Order Number: PB89-118 525 Order Form: NTIS

The Nation's Hazardous Waste Management Program at a Crossroads: The RCRA Implementation Study

Presents EPA's philosophy for management of hazardous waste, together with detailed rationale underlying that philosophy. Based on extensive analysis of perspectives gained from federal and state officials, public interest representatives, and regulated community. The report sets direction for implementing RCRA and provides a basis for EPA's strategic decision-making.

07/15/1990

Order Number: EPA530-SW-90-069 Order Form: OSW

***New Item Proposed for Comprehensive Procurement Guidelines**

Announces EPA's proposal to revise the current compost designation to include compost made from manure or biosolids, and designates one new item - fertilizers made from recovered organic materials. EPA is also proposing to consolidate all compost designations under one item called "compost made from recovered organic materials." Only available on the Internet at <www.epa.gov/epaoswer/non-hw/procure/pdf/cpg5p-fs.pdf>.

12/15/2003

Order Number: EPA530-F-03-010 Order Form: OSW

New Rule for Wood Preserving Wastes

Covers three categories of wastes generated by the wood preserving industry and added to the list of hazardous wastes under RCRA. Finalizes the December 1988 proposed rule. Includes management standards for existing and new drip pads used to collect treated wood drip-page.

12/15/1990

Order Number: EPA530-SW-91-012 Order Form: OSW

The New Wave in Electronics: eCycling (Reuse or Recycle Old Electronics)

Provides information on how to dispose of old or unwanted electronic equipment without throwing it away. Lists electronic items that can be recycled and contains general information about how and where to eCycle them. Included in *The Power of Change: Protecting the Information for the Next Generation Kit* and *Your Life, Your World, Your Choices: You Can Make a Difference Kit*.
09/15/2004

Order Number: EPA530-F-04-020 Order Form: OSW

Nineteen Eighty-Six National Screening Survey of Hazardous Waste Treatment, Storage, Disposal, and Recycling Facilities

Provides insights to TSDRs. There are now fewer active TSDRs than previously. Industry is dominated by very large onsite management facilities. The top 50 facilities manage 90 percent of the hazardous waste quantities. The dominant category is hazardous waste water with low pH. Includes individual study results.
(EPA530-SW-88-035) 09/01/1988

Order Number: PB89-106 058 Order Form: NTIS

Ninety-Day Subchronic Oral Toxicity in Rats Test Materials: Pyridine; Volume I

Provides test results of rats exposed daily to pyridine. Tests target organs and possible cumulative effects of pyridine. Findings used to develop the maximum acceptable concentrations in leachates emanating from land disposal units.
(EPA530-SW-88-016A) 12/15/1987

Order Number: PB88-176 136 Order Form: NTIS

Ninety-Day Subchronic Oral Toxicity in Rats Test Materials: Pyridine; Volume II

Provides additional data to Volume I including summary and conclusion.
(EPA530-SW-88-016B) 12/15/1987

Order Number: PB88-176 144 Order Form: NTIS

No Migration Variances to the Hazardous Waste Land Disposal Prohibitions; A Guidance Manual for Petitioners; Draft

Assists hazardous waste management facility owners and operators petitioning EPA for a variance from land disposal prohibitions at specific sites for specific wastes. Addresses the required scope of credible petitions.
(EPA530-R-92-023) 07/15/1992

Order Number: PB92-207 695 Order Form: NTIS

Office Paper Recycling: An Implementation Manual

Provides information to assist federal agencies in planning, implementing, and promoting a high-grade paper recovery program. The basic principles outlined should be useful to anyone planning an office paper recycling program, including state and local government agencies, commercial businesses, and other private organizations.
(EPA530-SW-90-001) 01/15/1990

Order Number: PB90-199 431 Order Form: NTIS

One-Time Waste Estimated for Capacity Assurance Planning: Capacity Planning Pursuant to CERCLA Section 104 (c)(9)

Provides detailed descriptions of the methodologies EPA used to develop tonnage estimates representing 20 years of offsite shipments to commercial Subtitle C hazardous waste management facilities. Discusses the methods for calculating wastes associated with the five major sources of remediation actions: Superfund removal actions, Superfund remedial actions, RCRA corrective actions, underground storage tank cleanups, and state and private cleanups. Identifies potential sources of contamination, the type of contamination, the probability that the waste generated at these sites will be sent off site for treatment and disposal, waste tonnages that will likely be sent off site, tonnage of treatment residuals generated, probability of disposal in Subtitle C landfills, and the distribution of waste over the 20-year period for each source of remediation.
(EPA530-R-94-002) 01/15/1995

Order Number: PB95-167 235 Order Form: NTIS

Open Dump Cleanup Project Helps Tribes Fight Waste

Describes the Open Dump Cleanup Project, a multi-agency commitment to help tribes throughout Indian Country close open dumps, clean up waste on tribal land, and develop safe solid waste management practices. Defines open dumps, presents the scope of the problem, and provides two success stories.

03/15/2003

Order Number: EPA530-F-03-005 *Order Form: OSW*

Organic Materials Management Strategies

Describes seven composting strategies for organic materials in the national MSW stream and presents an analysis of the benefits and costs of each strategy, the potential for diverting organic materials from landfills or waste-to-energy facilities, and the potential markets for diverted organic materials. Provides an overview of organic materials in the national waste stream. Estimates avoided collection and disposal costs attributed to diversion of organic materials. Reviews compost markets and end-uses.

07/15/1999

Order Number: EPA530-R-99-016 *Order Form: OSW*

Part 279 Requirements: Used Oil Management Standards (Poster)

Details the requirements of generators, transporters, transfer facilities, processors/re-refiners, off-specification burners, and marketers under RCRA Subtitle C, Part 279.

08/15/1998

Order Number: EPA530-H-98-001 *Order Form: OSW*

Partnerships in Solid Waste Management

Addresses waste management in Indian Country. This fact sheet describes the economic and environmental benefits of partnerships: greater economies of scale, protection of human health and the environment, reduction in capital costs, operational cost savings, job creation, and increase in compliance with state and regulatory guidelines. Discusses the possible obstacles to implementing a partnership agreement: potential partners with different MSW management goals, multi-jurisdictional programs that face varying regulations, potential inequities existing among neighboring tribes, and conflicts in handling waste across jurisdictions. Provides a list of questions to help evaluate partnership. Outlines how to begin developing a partnership agreement. Includes a case study.

12/15/1997

Order Number: EPA530-F-97-050 *Order Form: OSW*

Passing the Torch: Streamlined State Authorization (Brochure)

Defines state authorization. Discusses reasons for EPA's proposal to streamline the authorization process. Summarizes the streamlining proposals.

08/15/1996

Order Number: EPA530-F-96-005 *Order Form: OSW*

Pay-As-You-Throw: A Cooling Effect on Climate Change

Describes the PAYT Program. Explains how PAYT helps reduce greenhouse gas emissions. Addresses the measurement of greenhouse gas emission reductions. Also available in the kit folder *Climate Change and Waste*.

Updates the 1999 fact sheet.

03/15/2003

Order Number: EPA530-F-03-008 *Order Form: OSW*

Pay-As-You-Throw: A Fact Sheet for Elected Officials

Addressed to elected officials defining PAYT programs. Discusses the benefits of and potential barriers to the programs, and providing sources for more information.

04/15/1997

Order Number: EPA530-F-96-031 *Order Form: OSW*

Pay-As-You-Throw: A Fact Sheet for Environmental and Civic Groups

Addressed to environmental and civic organizations defining PAYT programs. Discusses the benefits of and potential barriers to the programs, and providing sources for more information.

04/15/1997

Order Number: EPA530-F-97-006 Order Form: OSW

Pay-As-You-Throw: A Fact Sheet for MSW Planners

Addressed to municipal solid waste planners defining PAYT programs. Discusses the benefits of and potential barriers to the programs, and providing sources for more information.

04/15/1997

Order Number: EPA530-F-96-030 Form: OSW

Pay-As-You-Throw: A Fact Sheet for State Officials

Addressed to state officials defining PAYT programs. Discusses the benefits of and potential barriers to PAYT programs, and providing sources for more information.

04/15/1997

Order Number: EPA530-F-96-029 Order Form: OSW

Pay-As-You-Throw: A New Trend in Sustainable Solid Waste Management (Video)

Designed for anyone interested in learning more about PAYT. Module 1 presents a general introduction to PAYT suitable for community residents. Module 2 provides solid waste managers with a detailed look at the key design and operational issues surrounding PAYT. Includes a public service announcement and a news magazine excerpt.

08/15/1998

Order Number: EPA530-V-98-001 Order Form: OSW

Pay-As-You-Throw: Lessons Learned About Unit Pricing

Examines the advantages and potential barriers to unit pricing systems. Assists in determining if unit pricing is appropriate for a community. Explains in step-by-step detail how to launch a unit pricing program. Reviews unit pricing options. Describes how to build consensus and plan a unit pricing program, how to design an integrated unit pricing program, and how to implement and monitor the program. Includes examples, definitions of terms, and a bibliography.

04/15/1994

Order Number: EPA530-R-94-004 Order Form: OSW

Pay-As-You-Throw Products and Tools Order Form

Briefly defines the PAYT concept. Describes the various PAYT products and provides an order form.

03/15/1999

Order Number: EPA530-F-99-011 Order Form: OSW

Pay-As-You-Throw Success Stories

Presents first-hand stories from communities that faced significant MSW challenges (increasing amounts of waste, rising disposal costs, and uncertain MSW budgets) and used PAYT programs to improve their solid waste management. Includes a series of fact sheets describing successful programs in Poquoson, Virginia; Dover, New Hampshire; Gainesville, Florida; San Jose, California; South Kingstown, Rhode Island; Vancouver, Washington; Mount Vernon, Iowa; Falmouth, Maine; and Fort Collins, Colorado.

04/15/1997

Order Number: EPA530-F-97-007 Order Form: OSW

Pay-As-You-Throw: Throw Away Less and Save

Addressed to citizens. Defines PAYT programs. Discusses the benefits of and potential barriers to the programs, and provides sources for more information.

04/15/1997

Order Number: EPA530-F-96-028 Order Form: OSW

Pay-As-You-Throw Tool Kit

Provides a variety of useful products to assist communities consider, design, and implement PAYT programs. Includes tools that will help with specific tasks, like conducting a public outreach program or designing a program's rate structure. Also offers general resources that define and explain the programs. Contains guidebooks, a workbook, software providing a PAYT rates model, and a videotape that presents a comprehensive summary of the central concepts of unit pricing. The Tool Kit is only available from the PAYT Hotline.

09/15/1996

Order Number: EPA530-R-96-013
Order Form: PAYT Hotline (800 EPA-PAYT, 800 372-7298)

Pay-As-You-Throw Workbook: A Supplement to EPA'S Pay-As-You-Throw Guidebook (EPA530-R-94-004)

Provides tools to assist in the implementation of a PAYT program. Contains information to help plan a program in detail, convey the results of research in convincing presentations, and develop a strong outreach program. Includes presentation materials (e.g. presentation agenda, survey of attendees, evaluation form, sample script and overhead masters) and public outreach materials (e.g. fact sheets, other outreach strategies, and clip art). Includes worksheets for deciding if a PAYT program is right for your community, planning for PAYT and conducting an outreach program, designing a rate structure, and implementing and monitoring the program. Presents articles and news clippings and an annotated bibliography. The Workbook is only available from the PAYT Hotline.

09/15/1996

Order Number: EPA530-R-96-005
Order Form: PAYT Hotline (800 EPA-PAYT, 800 372-7298)

Performance Test on a Spray Dryer, Fabric Filter, and Wet Scrubber; Draft Test Report

Reports on a performance test of a TSCA waste incinerator in Kansas, April 25 to 27, 1989. Part of EPA's OSW efforts to develop regulations to control the emissions of products of incomplete combustion, particulate matter, and toxic metals from hazardous waste incinerators. (EPA530-SW-90-008)

10/15/1989

Order Number: PB90-120 544 *Order Form: NTIS*

Permit Applicants' Guidance Manual for Exposure Information Requirements Under RCRA, Section 3019

Provides owners and operators of hazardous waste landfills and surface impoundments with guidance for submitting information on the potential for public exposure to hazardous wastes.

07/03/1985

Order Number: PB87-193 694 *Order Form: NTIS*

Permit Applicants' Guidance Manual for Hazardous Waste Land Treatment, Storage, and Disposal Facilities; Final Draft

Explains the EPA permitting process, facility standards, and application information requirements. Intended for federal permit applicants who operate facilities that treat, store, or dispose of hazardous waste in surface impoundments, waste piles, land treatment units, and landfills. (EPA530-SW-84-004)

05/15/1984

Order Number: PB89-115 695 *Order Form: NTIS*

Permit Applicants' Guidance Manual for the General Facility Standards of 40 CFR 264

Assists owners and operators of hazardous waste management facilities required to submit Part B of permit applications in exhibiting compliance with the standards of 40 CFR Part 264. (EPA SW-968)

10/15/1983

Order Number: PB87-151 064/AS *Order Form: NTIS*

Permit Guidance Manual on Hazardous Waste Land Treatment Demonstrations

Contains specific laboratory and field test methods that may be used to complete demonstration. Describes alternative technical approaches and permitting procedures. Includes reconnaissance surveys, laboratory analyses, mathematical modeling, and field plot studies. (EPA530-SW-86-032)

07/15/1986

Order Number: PB86-229 184/AS *Order Form: NTIS*

Permit Guidance Manual on Unsaturated Zone Monitoring for Hazardous Waste Land Treatment Units

Provides guidance to permit applicants and writers for developing unsaturated zone monitoring systems at hazardous waste land treatment units to comply with 40 CFR Part 264, Subpart M Regulations. Covers both soil core and soil pore-liquid sampling procedures, chain of custody considerations, and data evaluation.

(EPA530-SW-86-040) 10/15/1986

Order Number: PB87-215 463/AS Order Form: NTIS

Permit Writers' Guidance Manual for Hazardous Waste Land Treatment, Storage, and Disposal Facilities; Phase 1: Criteria for Location Acceptability and Existing Applicable Regulations

Defines acceptable locations for hazardous waste facilities. Cites applicable regulations and statutes in evaluating acceptable locations. Presents summary of EPA efforts to ensure both the proper site analysis and the safe location of such facilities.

(EPA530-SW-85-024) 02/15/1985

Order Number: PB86-125 580/AS Order Form: NTIS

Permit Writers' Guidance Manual for Hazardous Waste Tank Standards

Assists permit reviewers in evaluation of design standards of hazardous waste tanks, piping, controls, and ancillaries in hazardous waste tanks. Only to be used with a reference library of standards, codes, handbooks and data surveys.

(EPA530-SW-89-003) 07/15/1986

Order Number: PB89-126 478 Order Form: NTIS

Permitting Hazardous Waste Incinerators

Explains incineration as a means to dispose of hazardous waste. Includes performance standards for incinerators and steps for the permitting process.

04/15/1988

Order Number: EPA530-SW-88-024 Order Form: OSW

Permitting of Land Disposal Facilities: Ground-Water and Air Emission Monitoring

Describes permitting requirements of owners and operators of hazardous waste management facilities. Supports rulemaking for the permitting of land disposal facilities concerning ground-water and air emission monitoring. Contains summaries of comments made regarding proposed rules and EPA's responses.

07/31/1981

Order Number: PB81-246 431 Order Form: NTIS

Permitting of Land Disposal Facilities: Ground-Water Protection Standard

Describes proposed groundwater permitting requirements of owners and operators of hazardous waste management facilities. Summarizes comments and EPA's responses, providing regulatory rationale. Discusses groundwater protection strategy, facility design requirements, containment strategies, and specific ambient health and environmental standards.

07/31/1981

Order Number: PB81-246 423 Order Form: NTIS

Permitting of Land Disposal Facilities: Information Requirements for Permitting Discharges; General Standards Applicable to Owners and Operators of Hazardous Waste TSDFs

Discusses information required of owners and operators of land disposal facilities seeking permits. Cites the need for an adequate amount of information to perform a realistic evaluation of the facility's potential to cause adverse effects to human health and environment. Proper siting, design, and treatment will reduce information and demonstration requirements.

07/31/1981

Order Number: PB81-246 415 Order Form: NTIS

**Permitting of Land Disposal Facilities:
Land Treatment**

Describes land treatment permitting requirements of owners and operators of hazardous waste management facilities. Contains comments on the proposed regulations with rationale for final regulations. Includes issues such as surface water run on and runoff, soil and soil-pure monitoring, and closure and postclosure.

07/31/1981

Order Number: PB81-246 381 *Order Form: NTIS*

**Permitting of Land Disposal Facilities:
Landfills**

Presents the re-proposal of proposed rule and proposed amendments to 40 *CFR* Parts 260, 264, and 122. The need for regulation is based on the potential for environmental damage and actual damage incidents.

07/31/1981

Order Number: PB81-246 399 *Order Form: NTIS*

**Permitting of Land Disposal Facilities:
Overview; Background Document**

Describes the permitting requirements of owners and operators of hazardous waste management facilities. Provides analysis of standards, comment on summaries, and EPA's rationale for regulations.

07/31/1981

Order Number: PB81-246 357 *Order Form: NTIS*

**Permitting of Land Disposal Facilities:
Performance Standards for Land Disposal
Facilities**

Describes the performance permitting requirements of owners and operators of hazardous waste management facilities. Proposes standards applicable to land disposal facilities under Subpart B—General Facility Standards. Proposes standards applicable to land disposal facilities handling specific wastes or waste types under Subpart T—Minimum Acceptable Treatment of Hazardous Wastes Prior to Disposal.

07/31/1981

Order Number: PB81-246 449 *Order Form: NTIS*

**Permitting of Land Disposal Facilities:
Surface Impoundments**

Describes proposed surface impoundment permitting requirements of owners and operators of hazardous waste management facilities.

07/31/1981

Order Number: PB81-246 365 *Order Form: NTIS*

**Permitting of Land Disposal Facilities:
Underground Injection; Background
Document**

Describes permitting requirements of owners and operators of hazardous waste management facilities. Proposes standards for underground injection and underground seepage land disposal facilities. Discusses implications for Underground Injection Control Program established under the authority of the Safe Drinking Water Act.

07/31/1981

Order Number: PB81-246 407 *Order Form: NTIS*

**Permitting of Land Disposal Facilities:
Waste Piles**

Describes proposed waste pile permitting requirements of owners and operators of hazardous waste management facilities.

07/31/1981

Order Number: PB81-246 373 *Order Form: NTIS*

**Petitions to Delist Hazardous Wastes; A
Guidance Manual; Second Edition**

Provides guidance for submitting a credible and complete petition to delist a specific waste from the hazardous waste listing in 40 *CFR* Part 261. Contains information to assist interested individuals in determining whether to submit a petition and presents a stepwise approach to compiling a delisting petition.

(EPA530-R-93-007)

03/15/1993

Order Number: PB93-169 365 *Order Form: NTIS*

Petroleum Refining Process Waste Listing Determination: Additional Groundwater Pathway Risk Analyses; Supplemental Background Document

Describes groundwater pathway analyses performed to support the petroleum refining listing determination. Provides a general background, additional analyses, waste streams and management scenarios, and methodology. Presents revised two-parameter sensitivity analyses, two-parameter sensitivity to exposure duration, revised Monte Carlo analyses, the results of the revised 1998 analyses, and a comparison of revised analysis results to the 1997 results. Appendices include sensitivity analyses, exposure duration sensitivity, deterministic dilution attenuation factors, and Monte Carlo receptor well concentrations.

(EPA 530-R-99-033) 06/15/1998

Order Number: PB99-156 143 **Order Form: NTIS**

Petroleum Refining Process Waste Listing Determination Notice of Data Availability (NODA) Response to Comment Document (Complete Set)

Responds to public comments relevant to several FR notices announcing data availability relating to the proposed listing determination for petroleum refining process wastes.

(EPA 530-R-99-029) 06/15/1998

Order Number: PB99-156 044 **Order Form: NTIS**

Petroleum Refining Process Waste Listing Determination Notice of Data Availability (NODA) Response to Comment Document; Part I

Responds to general public comments. Provides EPA's response to public comments on groundwater pathway risk analysis. Addresses revised high end analysis, Monte Carlo analysis, co-disposal, capping waste analysis results at toxicity characteristic levels, waste-specific comments, and other groundwater modeling issues. Discusses the non-groundwater pathway risk analysis, including eliminating wastes managed as hazardous, model modifications regarding release and transport of soil to off-site receptors. Examines public comments on analyses regarding leaching of oily waste and the potential for additive risks from multiple sources.

(EPA 530-R-99-029a) 06/15/1998

Order Number: PB99-156 051 **Order Form: NTIS**

Petroleum Refining Process Waste Listing Determination Notice of Data Availability (NODA) Response to Comment Document; Part II

Responds to public comments concerning clarifications and corrections related to headworks exemption and jurisdictional explanation of off-specification product and fines from thermal processes used as product. Discusses revised treatment standards for spent catalysts from hydrotreating (K171) and hydrorefining (K172) under the LDR program. Addresses conditional listings, individual versus population risk, an assessment of waste management practices, the boilers and industrial furnaces rule exemption, and implications of listing catalysts.

(EPA 530-R-99-029b) 06/15/1998

Order Number: PB99-156 069 **Order Form: NTIS**

Petroleum Refining Process Waste Listing Determination Proposed Rule Response to Comment Document (Complete Set)

Responds to public comments received on EPA's proposal to add several petroleum refining process wastes to the RCRA list of regulated hazardous wastes and not to list other petroleum refining operations wastes.

(EPA 530-R-99-030) 06/15/1998

Order Number: PB99-156 077 **Order Form: NTIS**

Petroleum Refining Process Waste Listing Determination Proposed Rule Response to Comment Document; Part I

Responds to general public comments on EPA's proposal not to list eleven residuals of petroleum refining process operations. Addresses hazardous oil-bearing residuals returned to refinery processes.

(EPA 530-R-99-030a) 06/15/1998

Order Number: PB99-156 085 **Order Form: NTIS**

Petroleum Refining Process Waste Listing Determination Proposed Rule Response to Comment Document; Part II

Responds to public comments relevant to health and risk assessment issues.

(EPA 530-R-99-030b) 06/15/1998

Order Number: PB99-156 093 **Order Form: NTIS**

Petroleum Refining Process Waste Listing Determination Proposed Rule Response to Comment Document; Part III

Responds to public comments relating to residual-specific issues: crude oil sediment, clarified slurry oil sediment, catalyst from hydrotreating and hydrorefining, catalyst from sulfuric acid alkylation, spent caustic from liquid treating, off-specification product and fines from thermal processes, catalyst and fines from catalytic cracking, sludge from hydrogen fluoride alkylation, sludge from sulfur complex and hydrogen sulfide removal facilities, catalyst from sulfur complex and hydrogen sulfide removal facilities, unleaded gasoline tank sediment, catalyst from reforming, and sludge from sulfuric acid alkylation.
(EPA 530-R-99-030c) 06/15/1998

Order Number: PB99-156 101 Order Form: NTIS

Petroleum Refining Process Waste Listing Determination Proposed Rule Response to Comment Document; Part IV

Responds to public comments relating to options for conditional exemptions, idled units, third party regeneration of spent catalysts, headworks exemption, waste minimization, LDR, LDR capacity determinations, environmental justice, CERCLA designation, economic analysis, and miscellaneous topics.
(EPA 530-R-99-030d) 06/15/1998

Order Number: PB99-156 119 Order Form: NTIS

Pick Up Savings: Adjusting Hauling Services while Reducing Waste (WasteWise Tip Sheet)

Outlines a procedure which companies can use to review their current hauling service to implement solutions that reduce waste and cost. Includes two examples of companies that reduced their hauling costs through similar programs.

11/15/1996

Order Number: EPA530-F-96-016 Order Form: OSW

Pilot-Scale ESP and Hydro-Sonic Scrubber Parametric Tests for Particulate, Metals, and HCL Emissions; John Zink Company Research Facility; Tulsa, Oklahoma; Draft Test Report

Presents the results of a testing program to control emissions of particulate matter, toxic metals and hydrochloric acid from hazardous waste incinerators. Toxic metals examined include arsenic, cadmium, chromium, lead, and mercury.
(EPA530-SW-90-009) 06/15/1989

Order Number: PB90-129 362 Order Form: NTIS

Planet Protectors Club Kit

Supplements EPA's *Quest for Less* classroom curriculum with challenging activity booklets, educational games, and mysterious stories on the Internet at <www.epa.gov/epaoswer/education/kids_ppc.htm>. Includes information for adults that assists teachers, parents, and after school leaders select appropriate activities for different ages and groups of children Encourages kids to join the club and help the environment by reducing waste and saving resources. Includes *Follow that Trail!*, activity guide for grades K-3, *Case of the Broken Loop*, activity guide for grades 4-6, *Planet Protectors Create Less Waste in the First Place: A Story about Reuse on Earth*, and *Trash and Climate Change*. Also includes an order form, and membership badges and certificates. Only one kit per household or classroom is available. Additional quantities of the activity guides, badges, certificates, and kit order form are available separately. Also available in Spanish.

09/15/1998

Order Number: EPA530-E-98-002 Order Form: OSW

Planet Protectors Club Kit Order Form

Briefly describes the Planet Protectors Club. Includes ordering instructions and an order form.

06/15/2004

Order Number: EPA530-F-04-010 Order Form: OSW

Planet Protectors Create Less Waste in the First Place: A Story about Reuse on Earth

Provides answers to the question: "What on Earth can you do with an old jelly jar?" Gives tips for keeping an old jar out of the trash and giving it new life. Pictures may be colored. Included in the *Planet Protectors Club Kit*. Also available in Spanish.

09/15/1999

Order Number: EPA530-K-99-006

Order Number EPA530-K-99-006S Order Form: OSW

Planning for Disaster Debris

Describes steps a community can take to prepare for managing the waste created by natural disasters and to speed recovery after such disasters. Discusses ways communities can reduce the burden on their MSW management systems in the event of a natural disaster. Provides information on the volume of debris generated by hurricanes, earthquakes, tornados, floods, and fires. Presents federal, state, and local resources available to help. Offers several case studies. Includes sources for more information.

12/15/1995

Order Number: EPA530-K-95-010 Order Form: OSW

Plans, Recordkeeping, Variances, and Demonstrations for Hazardous Waste Treatment, Storage, and Disposal Facilities; A Guidance Manual

Assists EPA's regional offices in interpreting selected requirements of the Interim Status Standards for facilities managing hazardous waste. Interim Status Standards have been designed to be met without substantial interpretation by or negotiation with EPA.
(EPA SW-921)

01/01/1981

Order Number: PB87-155 503/AS Order Form: NTIS

*Plug-In To eCycling for Manufacturers and Retailers

This brochure, designed for businesses, describes EPA's campaign to encourage the reuse and recycling of electronic products (e.g., computers, monitors, televisions, and cell phones). Only available on the Internet at <www.epa.gov/epaoswer/osw/consERVE/plugin/brochure.pdf>.

01/15/2003

Order Number: 530-F-03-002 Order Form: OSW

*Plug-In To eCycling Event Tool Kit

Provides a guide for planning recycling collection events for consumer electronics. Covers first steps in planning the event, tasks to complete before the event, day of the event, and post-event tasks. Only available on the Internet at <www.epa.gov/epaoswer/osw/consERVE/plugin/toolkit.pdf>.

03/15/2003

Order Number: 530-R-03-005

Order Form: OSW

*Plug-In To eCycling: Guidelines for Materials Management

Provides voluntary guidance to EPA's Plug-In To eCycling partners about the most effective and practical methods for safely managing used electronic equipment. Only available on the Internet at <www.epa.gov/epaoswer/osw/consERVE/plugin/guide.htm>.

05/15/2004

Order Number: 530-K-04-004

Order Form: OSW

Pollution Prevention Solutions During Permitting, Inspection, and Enforcement

Summarizes approaches developed by environmental agencies and companies working together to incorporate cost-effective pollution prevention solutions into permitting, inspection, and enforcement. Defines pollution prevention. Provides examples of strategies designed to reduce the amount of pollution generated, reduce the cost of environmental controls, and meet or exceed environmental standards. Covers air, water, and RCRA programs. Includes a list of pollution prevention resources.

12/15/1998

Order Number: EPA530-R-98-015

Order Form: OSW

Postclosure Liability Trust Fund Simulation Model; Volume I: Model Overview and Results; Volume II: Graphs and Tables of Model Results; Volume III: Model Description

Describes the use of the model in five simulations and provides analysis of revenue requirements under alternative fund coverage policies. Technical details given on various aspects of model.

05/01/1985

Order Number: PB86-212 479/AS

Order Form: NTIS

The Power of Change: Protecting the Environment for the Next Generation Kit

Encourages older Americans to help reduce waste and protect the environment for the next generation. Resources in this kit explain how to reduce waste, conserve our natural resources, and save energy. Included in the kit are: *A Collection of Solid Waste Resources; "GreenScaping" Your Lawn and Garden; Hidden Hazards of Backyard Burning; Household Hazardous Waste: Steps to Safe Management; Moving Out, Moving In; The New Wave in Electronics: eCycling (Reuse or Recycle Old Electronics); Protect Yourself, Protect Others: Safe Options for Home Needle Disposal; Reducing Waste When You Travel; Setting Up a Home Office; Volunteer for Change: A Guide to Environmental Community Service; and You Dump It, You Drink It: Recycle Used Motor Oil.*

04/15/2004

Order Number: EPA530-E-04-001 Order Form: OSW

Preliminary Use and Substitutes Analysis of Lead and Cadmium in Products in Municipal Solid Waste

Identifies lead- and cadmium-containing products that are disposed of in MSW, and provides information regarding potential substitutes for these metals in various applications.
(EPA530-R-92-010)

04/15/1992

Order Number: PB92-162 551 Order Form: NTIS

Preparing No-Migration Demonstrations for Municipal Solid Waste Disposal Facilities: A Screening Tool

Assists owners and operators of MSW landfills by rapidly, if tentatively, determining their likelihood of preparing a successful No-Migration Demonstration (NMD) under the groundwater exemptions in 40 CFR Part 258.50(b). Discusses the three-step process: 1) making an early determination of eligibility; 2) estimating and analyzing the cost of an NMD; 3) and following cost-effective methods of preparing the NMD.

02/15/1999

Order Number: EPA530-R-99-008 Order Form: OSW

Preparing Successful Grant Proposals

Addresses waste management in Indian Country. Describes EPA's recommended process for developing grant proposals or applying for funding for solid waste management activities. Discusses the proposal summary, title, background, problem statement, goals, activities, methodology for measuring success, timeline, sustainability, and budget detail. Provides an example of a successful grant proposal.

12/15/1997

Order Number: EPA530-F-97-051 Order Form: OSW

Procedural Guidance for Reviewing Exposure Information Under RCRA, Section 3019

Assists permit writers in the evaluation of exposure information. Outlines steps in referring sites to EPA for Toxic Substances and Disease Registry health evaluations. Includes integration of review into existing activities.

09/26/1986

Order Number: PB87-193 702 Order Form: NTIS

Procedures for Modeling Flow Through Clay Liners to Determine Required Liner Thickness

Includes technical procedures for determining adequate thicknesses of single soil liners. Includes a performance simulation model based on numerical techniques.
(EPA530-SW-84-001)

04/15/1984

Order Number: PB87-191 029 Order Form: NTIS

Proceedings of the Eighth National United States Environmental Protection Agency Conference on Household Hazardous Waste Management, November 6-10, 1993, Burlington, Vermont

Contains opening plenary session and workshop materials from the conference. Workshop topics include instructions for collection day program beginners, paint reuse and recycling programs, education, heavy metals, funding issues for permanent programs, containers and special wastes, developing programs for CESQGs, clean and green building and repair, toxicity reduction and changing consumer attitudes, and waste-water pollution prevention HHW programs. Appendices include the final agenda, a final list of speakers and their biographical sketches, a list of attendees, poster session participants, a national listing of HHW programs, HHW management state contacts, permanent HHW program managers, and collection program contractors.

(EPA530-R-94-022) 11/06/1993

Order Number: PB94-181 047 Order Form: NTIS

Proceedings of the Fifth National Conference on Household Hazardous Waste Management, November 5-7, 1990, San Francisco, California

Compiles addresses, documents, and related publications pertaining to the fifth annual HHW Management Conference. Covers topics on pesticides, source reduction, paint, heavy metals, waste water, and indoor air pollution. Contains reprints of submitted speeches.

(EPA530-SW-91-059) 03/15/1991

Order Number: PB91-206 607 Order Form: NTIS

Proceedings of the First International Symposium on Oil and Gas E&P Waste Management Practices, September 10-13, 1990, New Orleans, Louisiana

Contains the proceedings of the First International Symposium on Oil and Gas E&P Wastes Management Practices. Symposium was cosponsored by EPA, the U.S. Department of the Interior, the U.S. Department of Energy, and various interested associations and commissions.

(EPA530-SW-91-030) 09/13/1990

Order Number: PB91-160 549 Order Form: NTIS

Proceedings of the Fourth National Conference on Household Hazardous Waste Management

Presents proceedings concerned with the reduction and safe management of everyday waste. Emphasizes toxicity reduction and recycling, used oil and lead-acid batteries, education programs, and expanding and improving existing collection programs.

(EPA530-SW-89-042D) 02/15/1990

Order Number: PB90-163 189 Order Form: NTIS

Proceedings of the Seventh National United States Environmental Protection Agency Conference on Household Hazardous Waste Management, December 8-12, 1992, Minneapolis, Minnesota

Contains the opening plenary session and workshop materials from the conference. Workshop topics include paint, batteries, fluorescent lamps, pesticides, and used oil, as well as "how-to's," education, collection, source reduction, and CESQGs.

(EPA530-R-93-008) 01/15/1993

Order Number: PB93-170 116 Order Form: NTIS

Proceedings of the Sixth National United States Environmental Protection Agency Conference on Household Hazardous Waste Management, Seattle, Washington, December 3-7, 1991

Contains the opening plenary session and workshop materials of the conference. Workshop issues include used oil, farm pesticides collection programs, cleaning products, automotive products, household and community pesticides, fluorescent lights, paint, household batteries, indoor air, and public education.

(EPA530-R-92-016) 03/15/1992

Order Number: PB92-169 390 Order Form: NTIS

Proceedings of the Workshop on Extended Product Responsibility, October 21-22, 1996, The White House Conference Center

Presents the proceedings of the workshop on extended product responsibility, cosponsored by the President's Council on Sustainable Development and EPA. Provides introductory presentations on the concept of extended product responsibility. Contains case studies from 11 companies on how they are implementing extended product responsibility to reduce the life cycle environmental impacts of their products. Addresses models and strategies for extended product responsibility, barriers to the implementation of it, outreach strategies for it, and next steps that the President's Council and others should take to promote wider implementation of extended product responsibility. Includes a bibliography and appendices with the agenda, list of participants, the text of the presentation on extended product responsibility (its origins and evolution of the President's Council's approach to shared responsibility), overheads for the workshop presentation on drivers and obstacles to implementation of extended product responsibility, case studies, and the membership lists of the President's Council's new national opportunities task force and the President's Council working group on extended product responsibility.

02/15/1997

Order Number: EPA530-R-97-020 Order Form: OSW

El Proceso de Permisos para Instalaciones de Residuos Peligrosos (Spanish Translation of *The Hazardous Waste Facility Permitting Process*)

Define residuos peligrosos e instalaciones de manejo de residuos peligrosos en terminos nontecnicos. Lista leyes y regulaciones que gobiernan instalaciones para el tratamiento, almacenaje, y desecho de residuos peligrosos. Además describe los requisitos para el permiso de estas instalaciones, pasas para el proceso del permiso, y la participación pública.

15/06/1996

Número de Pedido: EPA530-F-96-007S
Formulario de Pedido: OSW

Program Evaluation Program Area Analysis; Final Report

Addresses the results of the program evaluation program area analysis for the WIN/INFORMED initiative. Covers information needs and process improvements associated with planning, grants, and evaluation activities within the hazardous waste management program. Describes the process used to gather information for the report. Provides key findings and recommendations, stability analysis, and future directions. Appendices include a recommended data element list, a list of acronyms, and the WIN/INFORMED Executive Steering Committee's position on the program evaluation recommendations.

07/15/1999

Order Number: EPA530-R-99-017 Order Form: OSW

Prohibition on the Disposal of Bulk Liquid Hazardous Waste in Landfills; Statutory Interpretive Guidance

Provides guidance to owners and operators of hazardous waste landfills who dispose of bulk liquid hazardous wastes. Addresses Section 3004(c)(1) of RCRA, explaining its legal and technical requirements.

(EPA530-SW-86-016)

06/11/1986

Order Number: PB86-212 271/AS Order Form: NTIS

Projected Regulatory, Programmatic, and Fiscal Impacts of EPA's Strawman II on State Mine Waste Management Programs (Complete Set)

Reports on the projected regulatory, programmatic, and fiscal impacts of EPA's Strawman II on state mine waste management programs. Three volumes.

(EPA530-R-92-008)

12/21/1991

Order Number: PB92-190 149 Order Form: NTIS

Projected Regulatory, Programmatic, and Fiscal Impacts of EPA's Strawman II on State Mine Waste Management Programs; Volume I: Summary Report

Provides preliminary assessment of the effects that EPA's Strawman II draft regulatory approach for mining waste would have on existing state programs for environmental control and management of mining waste.

(EPA530-R-92-008a)

12/21/1991

Order Number: PB92-190 156 Order Form: NTIS

Projected Regulatory, Programmatic, and Fiscal Impacts of EPA's Strawman II on State Mine Waste Management Programs; Volume II: State Reports of Western Governors' Association Mine Waste Task Force States

Reports on the impacts of EPA's Strawman II report from the participating states of the Western Governors' Association Mine Waste Task Force.
(EPA530-R-92-008b) 12/21/1991

Order Number: PB92-190 164 Order Form: NTIS

Projected Regulatory, Programmatic, and Fiscal Impacts of EPA's Strawman II on State Mine Waste Management Programs; Volume III: Appendix: State Report

Reports on the impacts of EPA's Strawman II report from the Interstate Mining Compact Commission, Interstate Coalition on Mine Waste.
(EPA530-R-92-008c) 12/21/1991

Order Number: PB92-190 172 Order Form: NTIS

Promoting Source Reduction and Recyclability in the Marketplace

Relates the effectiveness of consumer-oriented education programs promoting source reduction and recyclability in the marketplace. Aims to assist solid waste officials, consumer interest groups, manufacturers, and marketing consultants charged with developing strategies to reduce MSW. Describes campaigns and research and outlines some general principles contributing to successful consumer-oriented programs.
(EPA530-SW-89-066) 09/15/1989

Order Number: PB90-163 122 Order Form: NTIS

Proposed Additions to Standards for Hazardous Waste Incineration (40 CFR 264.342 and 264.343); Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities Under RCRA, Subtitle C, Section 3004

Provides the support and background information for regulations issued under Section 3004 of RCRA, regarding proposed additions to standards for hazardous waste incineration.

12/15/1980

Order Number: PB81-193 021 Order Form: NTIS

***Proposed Revisions to the Hazardous Waste Identification Rule (HWIR)**

Fact sheet announcing EPA's proposal to revise the wastewater treatment exemptions for hazardous waste mixtures found in 40 CFR 261,3(a)(2)(iv)(A)-(G), also known as the "Headworks Rule Exemptions." Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/id/headworks/head-fs.pdf>.

04/15/2003

Order Number: EPA530-F-03-003 Order Form: OSW

Protect Yourself, Protect Others: Safe Options for Home Needle Disposal

Describes disposal options for people who use syringes and other medical sharps at home. Contains information on six types of services available to home users: drop-off collection sites, community household hazardous waste collection centers, residential "special waste" pick-ups, syringe exchange programs, mail-back services, and home needle destruction devices.

09/15/2004

Order Number: EPA530-F-04-004 Order Form: OSW

Los Protectores del Planeta Generan Menos Desechos desde un Principio: Una Historia sobre la Reutilización en la Tierra (Spanish Translation of *Planet Protectors Create Less Waste in the First Place: A Story about Reuse on Earth*)

Proporciona respuestas a la pregunta: “qué en la tierra puede usted hacer con un viejo tarro de la jalea?” Da las extremidades para guardar un viejo tarro fuera de la basura y darle nueva vida. Los cuadros pueden ser coloreados. Incluido en los protectores del planeta aporree el kit.

08/15/2000

Número de pedido: EPA530-K-99-006S
Formulario de pedido: OSW

Protocol for Evaluating Interim Status Closure/Postclosure Plans

Provides the format for evaluating the quality of interim status closure and postclosure plans approved by states and EPA regions. Checklist and guidance provided can be valuable to EPA and state agency staff responsible for reviewing closure and postclosure plans.

08/15/1986

Order Number: PB87-178 315 *Order Form:* NTIS

Publications on Mining Waste Management in Indian Country

Provides descriptions of EPA publications designed to assist tribal leaders, environmental personnel, and the general public with mining and mineral processing issues. Includes publications relating to mining waste management and engineering practices. Listed publications discuss environmental impacts from mining operations, mining source reduction and recycling opportunities, and innovative techniques for waste management. Includes ordering information and Internet address when available.

07/15/1999

Order Number: EPA530-B-99-006 *Order Form:* OSW

Publications on Solid Waste Management in Indian Country

Lists by topic EPA, Bureau of Indian Affairs, and Native American organization publications designed to assist tribal leaders, environmental personnel, and the general public in developing, expanding, and implementing integrated solid waste management programs. Includes a brief overview of effective waste management elements.

08/15/1998

Order Number: EPA530-B-98-004 *Order Form:* OSW

Puedes Hacer una Diferencia: Aprende Sobre las Carreras para el Manejo de Desechos (Spanish Translation of *You Can Make a Difference: Learn about Careers in Waste Management*)

Papel que describe oportunidades de la carrera en la gestión de desechos. Trata servicio de comunidad, el empleo del estudiante, puestos de interno, y la educación avanzada. Describe las actividades de la Oficina de Residuos Sólidos y la página de las carreras de la basura sólida en su Web site. Explica cómo tener acceso a el EZhire de EPA en el Internet. Incluye ejemplos y recursos. Incluido en *Su Vida, Su Mundo, Sus Opiniones: Todo Lo Que Haga Puede Hacer una Diferencia Kit*.

15/03/2004

Número de pedido: EPA530-F-02-011S
Formulario de pedido: OSW

Puzzled About Recycling’s Value? Look Beyond the Bin

Discusses the financial, environmental, and social benefits of recycling. Addresses cost savings, economic development, recycling industries, and recyclables as commodities. Examines pollution reduction, mitigation of global climate change, and protection of biodiversity. Concludes that recycling boosts the economy, conserves natural resources, and reduces solid waste.

01/15/1998

Order Number: EPA530-K-97-008 *Order Form:* OSW

Quantities of Cyanide-Bearing and Acid-Generating Wastes Generated by the Mining and Beneficiating Industries, and the Potentials for Contaminant Release

Documents the initial phases of human exposure and ecological impact assessment of mining and beneficiation wastes bearing cyanides or generating acids. Data regarding waste quantities, with limited information on cyanide concentrations and the potential for acid formation of wastes, are extracted and summarized.

(EPA530-SW-86-025) 06/27/1986

Order Number: PB86-219 391/AS Order Form: NTIS

*Quest for Less: Activities and Resources for Teaching K-6

A solid waste curriculum for educators with a multidisciplinary focus that includes math, science, art, social studies, language arts, and health. It encourages students to use skills ranging from reading and writing to problem-solving and analytical thinking. Provides hands-on lessons and activities, enrichment ideas, journal writing assignments, and other educational tools related to preventing and reducing trash. Each chapter includes one or more fact sheets providing background information on each topic. In addition, each chapter includes an index showing the grade ranges, subject areas, and skills used for each activity to help teachers select the appropriate activities. This publication is available primarily on OSW's web site at <www.epa.gov/epaoswer/osw/kids/quest/index.htm>.

01/15/2001

Order Number: EPA530-R-00-008 Order Form: OSW

Questions and Answers About Full Cost Accounting

Features questions and answers discussed during a satellite forum on FCA. Defines FCA and explains how to get started using FCA. Discusses the implementation of FCA and its benefits. Addresses rate-setting, recycling, and privatization, in relation to FCA. Discusses the cost of FCA. Includes resources.

02/15/1998

Order Number: EPA530-F-98-003 Order Form: OSW

Questions and Answers Regarding the July 14, 1986, Hazardous Waste Tank System Regulatory Amendments

Answers questions concerning compliance or implementation of Subpart J requirements. Topics include the applicability of requirements, integrity assessments, design and operation requirements, secondary containment, and closure and postclosure care.

10/02/1987

Order Number: EPA530-SW-87-012 Order Form: OSW

Rat Oral Subchronic Toxicity Study; Final Report; Compound: Isobutyl Alcohol

Evaluates the toxicity of isobutyl alcohol in a rat subchronic toxicity study. Reveals that oral administration of the compound produces treatment-related effects at a dose level of 1,000 mg per kg per day, which produces hypoactivity and lowered weight gain in males.

(EPA530-SW-88-015) 07/30/1985

Order Number: PB88-176 177 Order Form: NTIS

Rate Structure Design: Setting Rates for a Pay-As-You-Throw Program

Provides community planners and officials with an overview of two basic methods for setting rates within a PAYT program. Introduces and explains both conceptual and practical considerations for setting PAYT rates. Does not provide a formula or recipe for rate setting but, instead, discusses the key steps and points to consider when developing a rate structure that can best support a community's goals. Includes case studies and a glossary.

01/15/1999

Order Number: EPA530-R-99-006 Order Form: OSW

RCRA Cleanup Reforms: Faster, Focused, More Flexible Cleanups

Describes RCRA cleanup reforms, a set of administrative reforms to the RCRA corrective action program. Explains why EPA is doing the RCRA cleanup reforms. Addresses how success of the reforms will be measured and how EPA will involve stakeholders in the reforms.

07/15/1999

Order Number: EPA530-F-99-018 Order Form: OSW

RCRA Cleanup Reforms: Reforms II: Fostering Creative Solutions

Contains EPA's second set of administrative reforms to accelerate the cleanup of hazardous waste facilities regulated under RCRA. Explains the necessity for the reformation of the RCRA Corrective Action Program. Describes what the four goals of the RCRA Cleanup reforms for 2001 are, pilot innovative approaches; accelerate changes in culture; connect communities to cleanups; and capitalize on redevelopment potential. In addition, explains how results will be measured and how stakeholders will be involved. Provides sources for additional information.

01/15/2001

Order Number: EPA530-F-01-001 *Order Form: OSW*

RCRA Corrective Action Interim Measures Guidance; Interim Final

Provides the technical framework for the development of Corrective Action Orders and corrective action permit requirements. Assists regions and states in performing corrective action interim measures to mitigate or remove an exposure threat presented by releases.

06/15/1988

Order Number: EPA530-F-99-018 *Order Form: OSW*

RCRA Corrective Action Plan; Final

Assists regions and states in establishing corrective action programs. Provides technical framework for the development of Corrective Action Orders and corrective action permit requirements.

05/31/1994

Order Number: PB94-963 657 *Order Form: NTIS*

RCRA en Foco: Imprenta (Spanish Translation of RCRA in Focus: Printing)

Este folleto tiene por objeto dar una perspectiva de las reglamentos federales que la industria tipográfica está requirida a seguir y los residuos de la industria tipográfica que se consideran peligrosos. Responde a preguntas frecuentes acerca de la RCRA. Presenta el ciclo de vida de un residuo de imprenta típico. Describe posibles métodos federales de eliminación, tratamiento, y reciclaje para la prevención de contaminación. Trata otras leyes ambientales que afectan a la industria tipográfica. Contiene una tabla de requisitos reglamentarios federales de la RCRA y una lista de contactos y recursos para pedir más información.

15/01/1998

Número de Pedido: EPA530-K-97-007S
Formulario de Pedido: OSW

RCRA en Foco: Mantenimiento de Vehículos (Spanish Translation of RCRA in Focus: Vehicle Maintenance)

Este folleto tiene por objeto dar una perspectiva de las reglamentos federales que la industria de mantenimiento de vehículos está requirida a seguir y los residuos de la industria de mantenimiento de vehículos que se consideran peligrosos. Responde a preguntas frecuentes acerca de la RCRA. Presenta el ciclo de vida de un residuo de mantenimiento de vehículos típico. Describe posibles métodos federales de eliminación, tratamiento, y reciclaje para la prevención de contaminación. Trata otras leyes ambientales que afectan a la industria de mantenimiento de vehículos. Contiene una tabla de requisitos reglamentarios federales de la RCRA y una lista de contactos y recursos para pedir más información.

15/12/2002

Número de Pedido: EPA530-K-99-004S
Formulario de Pedido: OSW

RCRA en Foco: Transporte de Carga por Carretera y Ferrocarril (Spanish Translation of RCRA in Focus: Motor Freight & Railroad Transportation)

Este folleto tiene por objeto dar una perspectiva de las reglamentos federales que la industria de transporte de carga por carretera y ferrocarril está requirida a seguir y los residuos de la industria de transporte de carga por carretera y ferrocarril que se consideran peligrosos. Responde a preguntas frecuentes acerca de la RCRA. Presenta el ciclo de vida de un residuo típico de la industria de transporte de carga por carretera y ferrocarril. Describe posibles métodos federales de eliminación, tratamiento, y reciclaje para la prevención de contaminación. Trata otras leyes ambientales que afectan a la industria de transporte de carga por carretera y ferrocarril. Contiene una tabla de requisitos reglamentarios federales de la RCRA y una lista de contactos y recursos para pedir más información.

15/08/2003

Número de Pedido: EPA530-K-00-003S
Formulario de Pedido: OSW

RCRA Expanded Public Participation Rule (Brochure)

Describes EPA's expanded public participation rule to empower communities to become more actively involved in local hazardous waste management by involving the public earlier in the permitting process, providing more opportunities for public participation, expanding public access to information, and offering guidance on how facilities can improve public participation. Also available in Spanish.

02/15/1996

Order Number: EPA530-F-95-030
Order Number: EPA530-F-95-030S **Order Form:** OSW

RCRA Facility Assessment Guidance

Provides guidance to OSW in conducting RCRA facility assessments. Replaces the August 1985 draft guidance with revisions made to reflect developments in the implementation of the RCRA corrective action program. Also clarifies the definition of an SWMU.
(EPA530-SW-86-053) 10/09/1986

Order Number: PB87-107 769 **Order Form:** NTIS

RCRA Facility Investigation (RFI) Guidance; Interim Final; Volume I: Development of an RFI Work Plan and General Considerations for RCRA Facility Investigations; Volume II: Soil, Groundwater, and Subsurface Gas Releases; Volume III: Air and Surface Water Releases; Volume IV: Case Study Examples

Provides guidance to regulatory agency personnel on overseeing owners or operators of hazardous waste management facilities conducting the second phase of the RCRA Corrective Action Program, a RCRA Facility Investigation. The purpose of such an investigation is to obtain information to fully characterize nature, extent, and rate of migration of release of hazardous waste or constituents. A RCRA Facility Investigation also is conducted to interpret information and determine whether corrective measures might be necessary. Four volumes.
(EPA530-SW-89-031) 05/15/1989

Order Number: PB89-200 299 **Order Form:** NTIS

RCRA Final Authorization Guidance Manual

Establishes a process and schedule for final authorization of state hazardous waste programs. Provides early review steps for state statutes, allowing time for necessary program changes.
(EPA SW-862) 06/10/1983

Order Number: PB87-155 057/AS **Order Form:** NTIS

RCRA Ground-Water Monitoring Compliance Order Guidance

Guides state and regional enforcement officials in developing administrative orders to address RCRA groundwater monitoring violations at interim status land disposal facilities. Promotes the development of orders that correct interim status violations in a manner consistent with the permitting process.

08/01/1985

Order Number: PB87-193 710 **Order Form:** NTIS

RCRA Ground-Water Monitoring: Draft Technical Guidance

Provides technical guidance for implementing the groundwater monitoring regulations for regulated units contained in 40 CFR Part 264 Subpart F and the permitting standards of 40 CFR Part 270. Also provides guidance to owners and operators of TSDFs that are required to comply with other subparts of 40 CFR Part 264.
(EPA530-R-93-001) 11/15/1992

Order Number: PB93-139 350 **Order Form: NTIS**

RCRA Guidance Document: Land Treatment

Presents land treatment design and operating specifications that comply with appropriate sections of regulations. Topics include treatment demonstration requirements, design and operating requirements, unsaturated zone monitoring requirements, and closure and postclosure requirements.

10/06/1982

Order Number: PB87-155 065/AS **Order Form: NTIS**

RCRA Guidance Document: Landfill Design, Liner Systems, and Final Cover; Draft

Presents landfill design specifications that comply with pertinent regulations aimed at eliminating the escape of leachate from landfills. Requires landfills to come as close to total containment as possible during the operating life of a facility. After closure, leachate formation and escape is minimized as best achieved by current technology.

07/01/1982

Order Number: PB87-157 657/AS **Order Form: NTIS**

RCRA Guidance Document: Surface Impoundments, Liner Systems, Final Cover, and Free Board Control; Draft

Provides technical guidance for surface impoundment liner systems, final cover, and freeboard control.

11/15/1986

Order Number: PB87-157 665/AS **Order Form: NTIS**

RCRA Guidance Manual for Subpart G Closure and Postclosure Care Standards and Subpart H Cost Estimating Requirements

Assists regions and states with implementation of closure and postclosure care and cost estimate regulations. Helps owners and operators prepare plans and cost estimates to satisfy regulations. Discusses site-specific factors that might affect closure and postclosure care activities and provides closure and postclosure checklists to assist in preparing and reviewing plans.

(EPA530-SW-87-010) 01/15/1987

Order Number: PB87-158 978/AS **Order Form: NTIS**

***RCRA Hazardous Waste Delisting: The First Twenty Years**

Documents an evaluation of the outcomes and impacts of the hazardous waste delisting program, conducted by EPA under RCRA. Describes the rationale for conducting a program evaluation, the results and out-comes of the delisting program, and other findings and issues raised in this evaluation. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/id/delist/index.htm>.

06/15/2002

Order Number: EPA530-R-02-014 **Order Form: OSW**

RCRA Hazardous Waste: Information Management Executive Summary

Introduces RCRIS and the BRS with attention to the questions of reporting facilities. Covers types of information supplied and program support.

01/15/1992

Order Number: EPA530-S-92-001 **Order Form: OSW**

RCRA Helps Turn Brownfields Green

Describes the RCRA program. Defines brownfields and explains the relationship between RCRA and brownfields. Contains success stories. Includes remarks from EPA Assistant Administrator Tim Fields.

12/15/1999

Order Number: EPA530-F-99-048 **Order Form: OSW**

RCRA Implementation Study Update: The Definition of Solid Waste

Reexamines the EPA definition of solid waste in an attempt to clarify EPA's RCRA mandate. Explores resource recovery, recycling regulations, and implementation issues, and presents a plan for change. Summarizes meetings held to solicit industry, interest-group, and other government-branch input on the definition of solid waste and hazardous waste recycling regulations.

07/15/1992

Order Number: EPA530-R-92-021 Order Form: OSW

RCRA in Focus: Dry Cleaning

Provides an overview of the federal regulations members of the dry cleaning industry are required to follow and the dry cleaning industry wastes that are likely to be hazardous. Answers frequently asked questions about RCRA. Presents the life cycle of a typical dry cleaning waste. Addresses federal recycling and pollution prevention options for the dry cleaning industry. Discusses other environmental laws affecting the dry cleaning industry. Contains a table of federal RCRA regulatory requirements for dry cleaners. Includes a list of contacts and other sources of information. Also available in Korean

06/15/1999

*Order Number: EPA530-K-99-005
Order Number: EPA530-K-99-005K Order Form: OSW*

RCRA in Focus: Furniture Manufacturing and Refinishing

Provides an overview of the federal regulations members of the furniture manufacturing and refinishing industry are required to follow and the furniture manufacturing and refinishing industry wastes that are likely to be hazardous. Answers frequently asked questions about RCRA. Presents the life cycle of a typical furniture manufacturing and refinishing waste. Addresses federal recycling and pollution prevention options for the furniture manufacturing and refinishing industry. Discusses other environmental laws affecting the furniture manufacturing and refinishing industry. Contains a table of federal RCRA regulatory requirements for furniture manufacturers and refinishers. Includes a list of contacts and other sources of information.

01/15/2004

Order Number: EPA530-K-03-005 Order Form: OSW

RCRA in Focus: Leather Manufacturing

Provides an overview of the federal regulations members of the leather manufacturing industry are required to follow and the leather manufacturing industry wastes that are likely to be hazardous. Answers frequently asked questions about RCRA. Presents the life cycle of a typical leather manufacturing waste. Addresses federal recycling and pollution prevention options for the leather manufacturing industry. Discusses other environmental laws affecting the leather manufacturing industry. Contains a table of federal RCRA regulatory requirements for leather manufacturers. Includes a list of contacts and other sources of information.

06/15/2000

Order Number: EPA530-K-00-002 Order Form: OSW

RCRA in Focus: Motor Freight & Railroad Transportation

Provides an overview of the federal regulations members of the motor freight and railroad transportation industry are required to follow and the motor freight and railroad transportation industry wastes that are likely to be hazardous. Answers frequently asked questions about RCRA. Presents the life cycle of a typical motor freight and railroad transportation waste. Addresses federal recycling and pollution prevention options for the motor freight and railroad transportation industry. Discusses other environmental laws affecting the motor freight and railroad transportation industry. Contains a table of federal RCRA regulatory requirements for motor freight and railroad transporters. Includes a list of contacts and other sources of information.

06/15/2000

*Order Number: EPA530-K-00-003
Order Number: EPA530-K-00-003S Order Form: OSW*

RCRA in Focus: Photo Processing

Provides an overview of the federal regulations members of the photo processing industry are required to follow and the photo processing industry wastes that are likely to be hazardous. Answers frequently asked questions about RCRA. Presents the life cycle of a typical photo processing waste. Addresses federal recycling and pollution prevention options for the photo processing industry. Discusses other environmental laws affecting the photo processing industry. Contains a table of federal RCRA regulatory requirements for photo processors. Includes a list of contacts and other sources of information.

01/15/1999

Order Number: EPA530-K-99-002 Order Form: OSW

RCRA in Focus: Printing

Provides an overview of the federal regulations members of the printing industry are required to follow and the printing industry wastes that are likely to be hazardous. Answers frequently asked questions about RCRA. Presents the life cycle of a typical printing waste. Addresses federal recycling and pollution prevention options for the printing industry. Discusses other environmental laws affecting the printing industry. Contains a table of federal RCRA regulatory requirements for printers. Includes a list of contacts and other sources of information. Also available in Spanish.

01/15/1998

*Order Number: EPA530-K-97-007
Order Number: EPA530-K-97-007S Order Form: OSW*

RCRA in Focus: Textile Manufacturing

Provides an overview of the federal regulations members of the textile manufacturing industry are required to follow and the textile manufacturing industry wastes that are likely to be hazardous. Answers frequently asked questions about RCRA. Presents the life cycle of a typical textile manufacturing waste. Addresses federal recycling and pollution prevention options for the textile manufacturing industry. Discusses other environmental laws affecting the textile manufacturing industry. Contains a table of federal RCRA regulatory requirements for textile manufacturers. Includes a list of contacts and other sources of information.

09/15/2002

Order Number: EPA530-K-02-028 Order Form: OSW

RCRA in Focus: Vehicle Maintenance

Provides an overview of the federal regulations members of the vehicle maintenance industry are required to follow and the vehicle maintenance industry wastes that are likely to be hazardous. Answers frequently asked questions about RCRA. Presents the life cycle of a typical vehicle maintenance waste. Addresses federal recycling and pollution prevention options for the vehicle maintenance industry. Discusses other environmental laws affecting the vehicle maintenance industry. Contains a table of federal RCRA regulatory requirements for members of the vehicle maintenance industry. Includes a list of contacts and other sources of information. **Also available in Spanish.**

06/15/1999

*Order Number: EPA530-K-99-004
Order Number: EPA530-K-99-004S Order Form: OSW*

RCRA Inspection Manual

Provides procedural and technical guidance for performing inspections of facilities regulated by RCRA pre-inspection, inspection, and post-inspection procedures. (EPA530-R-94-007)

10/15/1993

Order Number: PB94-963 605 Order Form: NTIS

RCRA Liability Coverage for Bodily Injury and Property Damage Survey Results

Presents the results of the 1988 survey of facilities required to comply with third-party liability coverage requirements for bodily injury and property damage pursuant to RCRA. Explores whether firms owning or operating RCRA facilities that treat, store, or dispose of hazardous wastes encounter difficulty in obtaining financial assurance mechanisms to comply with requirements. (EPA530-SW-89-043)

09/15/1989

Order Number: PB90-113 945 Order Form: NTIS

RCRA Online: A Quick Reference Guide (Brochure)

Describes EPA's database of selected letters, memoranda, and questions and answers written by the Office of Solid Waste since 1980. Explains how users can access the database on the Internet and how they can view and print the text of documents identified in a search. Provides instruction for locating documents using the topical, full text, and advanced search functions.

03/15/2003

Order Number: EPA530-F-03-011 Order Form: OSW

RCRA Organic Air Emission Standards for TSDFs and Generators

Outlines requirements of the RCRA organic air emission standards contained in 40 *CFR* Parts 264/265, subpart CC. Details regulations requiring the reduction of organic air emissions from tanks, surface impoundments, containers, and miscellaneous units. Addresses the differences between permitted and interim status facilities. Summarizes the subpart AA and BB standards. Includes definitions.

07/15/1998

Order Number: EPA530-F-98-011 Order Form: OSW

RCRA Orientation Manual

Provides introductory information on solid and hazardous waste management programs under RCRA. Addresses the basic framework of the RCRA regulatory program for new EPA and state employees, those new to RCRA, and others interested in the Act in seven sections: introduction to RCRA, managing solid waste—RCRA Subtitle D, managing hazardous waste—RCRA Subtitle C, managing underground storage tanks, RCRA Subtitle I, miscellaneous statutory provisions (such as procurement guidelines), RCRA and its relationship to other environmental statutes, and public participation in RCRA. Appendices include a hazardous waste manifest, land disposal restriction notification form, glossary, acronyms, and abbreviations, EPA organization chart, and environmental contacts.

09/15/2002

Order Number: EPA 530-R-02-016 Order Form: OSW

RCRA Permit Quality Protocol; Draft

Assists permit writers in drafting or reviewing hazardous waste facility permits. Provides a checklist of permit conditions, technical and enforceability evaluation for criteria, and guidance. Used to help evaluate completeness and adequacy of Administrative Record in support of permit conditions.

(EPA530-SW-90-050)

09/15/1988

Order Number: PB90-211 004 Order Form: NTIS

RCRA Personnel Training Guidance for Owners or Operators of Hazardous Waste Management Facilities

Provides guidance to owners and operators or other facility personnel concerning the design and implementation of personnel training programs. Information provided concerns generating training programs with specific recommendations made concerning training modules appropriate to hazardous waste management training.

(EPA SW-915)

09/01/1980

Order Number: PB87-193 348 Order Form: NTIS

RCRA Public Participation Manual

Provides instruction on how to plan and carry out successful public participation activities in the RCRA permitting and corrective action programs. Provides a broad overview of the public participation process and guidelines for a successful public participation program. Contains step-by-step instructions for conducting all public involvement activities identified. Appendices include lists of contacts at EPA, state environmental offices, the League of Women Voters, and pollution prevention and small business assistance groups; an environmental justice public participation checklist; guidance for community advisory groups at Superfund sites; public participation regulations; examples of public notices; examples of additional RCRA public participation tools (e.g., fact sheets, news releases, public involvement plans); the EPA fact sheet The Hazardous Waste Facility Permitting Process; the RCRA expanded public participation final rule and brochure; the EPA fact sheet Modifying RCRA Permits; public participation resources available to the permitting agency; an excerpt on public participation from the 1990 RCRA Orientation Manual; information on public participation in enforcement and compliance; guidance on how to access EPA information; and a glossary of acronyms. Also available in Spanish.

06/15/1996

Order Number: EPA530-R-96-007

Order Number: EPA530-R-96-007S Order Form: OSW

RCRA: Reduciendo el Riesgo de Residuo (Spanish Translation of RCRA: Reducing Risk from Waste)

Este folleto tiene por objeto dar una perspectiva general de como funciona el programa nacional de la RCRA y el papel que juegan los estados. Define residuos peligrosos de la RCRA y como aplica sus regulaciones a generadores de residuos, transportistas, y a las Plantas de Tratamiento, Almacenaje, y Desechado (TSDFs). También describe el programa de minimización de residuos y abarca residuo sólido estatal y municipal. Contiene una sección de otras leyes ambientales relacionadas con sustancias peligrosas e incluye un glosario y guía para la sección de la RCRA en el *Codigo de Reglamentos Federales*.

15/09/1997

Número de Pedido: EPA530-K-97-004S

Formulario de Pedido: OSW

RCRA: Reducing Risk from Waste

Provides a brief overview of the national RCRA program and the role of the states. Defines RCRA hazardous waste and how the RCRA regulations apply to generators, transporters, and TSDFs. Describes the waste minimization program. Addresses municipal and industrial solid waste. Contains a section on other environmental laws related to hazardous substances. Includes a glossary and guide to the RCRA section of the CFR. Also available in Spanish.

08/15/1997

Order Number: EPA530-K-97-004

Order Number: EPA530-K-97-004S Order Form: OSW

*RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Air Emission Standards (40 CFR Parts 264/265, Subparts AA, BB, and CC)

Provides a regulatory overview of the RCRA air emission standards as they apply to hazardous waste facilities. Outlines the history of RCRA air emission standards as well as the air emission controls required by the standards. Explains the difference between the 40 CFR Parts 264 and 265, and Subparts AA, BB, and CC air emission standards. Summarizes the requirements of each of these subparts. Identifies the types of units subject to these requirements as well as specific exemptions. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/air.pdf>

10/15/2001

Order Number: EPA530-K-02-003

Order Form: OSW

RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Boilers and Industrial Furnaces (40 CFR Part 266, Subpart H)

Addresses the regulations affecting hazardous waste processed in boilers and industrial furnaces (BIFs). Defines BIFs and describes the criteria associated with the definitions. Discusses the requirements for processing hazardous waste in BIFs, including the distinctions between permitted and interim status units, and explains the requirements for the specially regulated BIF units. Also available on the Internet at <www.epa.gov/epaoswer/hotline/training/bif.pdf>.

(EPA530-R-99-042)

10/15/1999

Order Number: PB2000-101 882

Order Form: NTIS

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Closure/Post-Closure (40 CFR Parts 264/265, Subpart G)**

Explains the difference between closure and post-closure. Lists the types of facilities that are subject to closure and post-closure. Defines the difference between partial and final closure. Specifies who submits a closure plan and when a closure plan must be submitted, lists the steps in the process, and gives the time frame for submittal. Identifies when and how a closure must be amended. Explains the time frame for notification of closure and the deadlines for beginning and completing closure. Specifies which facilities need contingent postclosure plans. Lists the elements of post-closure and cites the requirements. Specifies the conditions and timing for amending a post-closure plan, states who must certify closure and post-closure, and explains the alternatives to post-closure permits for interim status facilities. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/closure.pdf>.

09/15/2003

Order Number: EPA530-R-04-005 Order Form: OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Containers (40 CFR Parts 264/265, Subpart I; Section 261.7)**

Reviews two sets of regulatory requirements for containers: requirements that pertain to the management of hazardous waste containers, and regulations governing residues of hazardous waste in empty containers. Defines "container" and "empty container" and provides examples and citations for each. Provides an overview of the requirements for the design and operation of hazardous waste containers. Explains the difference between the container standards set out in 40 CFR Parts 264 and 265. States the requirements for rendering a hazardous waste container "RCRA empty." Explains when container rinsate must be managed as a hazardous waste. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/container.pdf>.

09/15/2003

Order Number: EPA530-R-04-006 Order Form: OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Containment Buildings (40 CFR Parts 264/265, Subpart DD)**

Outlines the regulatory history and purpose of containment buildings, which are essentially waste piles enclosed in buildings that facilitate management of bulky materials without triggering land disposal and LDRs. Discusses the relationship between LDR and containment buildings. Summarizes the design and operating standards applicable to containment buildings. Describes the relationship between generator accumulation standards and containment buildings. Updated October 2001. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/cbuld.pdf>.

09/15/2003

Order Number: EPA530-R-04-007 Order Form: OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Definition of Solid Waste and Hazardous Waste Recycling (40 CFR Sections 261.2 and 261.9)**

Explains the statutory and regulatory definitions of solid waste, including the standards governing the recycling and management of specific types of wastes. Cites three use and reuse scenarios where the materials are not solid wastes, and states the requirements for documentation. Describes the conditions under which hazardous waste-derived products may be excluded from regulation. Addresses the special recycling standards for use constituting disposal, precious metal recovery, and spent lead-acid batteries. Discusses potential regulatory developments affecting the definition of solid waste and hazardous waste recycling. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/defsw.pdf>.

10/15/2001

Order Number: EPA530-K-02-007 Order Form: OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Drip Pads (40 CFR Parts 264/265, Subpart W)**

Explains the standards for listed wastes from wood preserving processes that are generated by allowing a preservative to drip from wood onto concrete pads, called drip pads. Defines a drip pad. Summarizes the design and operating standards for drip pads. Describes the relationship between generator accumulation provisions and drip pads. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/drip.pdf>.

10/15/2001

Order Number: EPA530-K-02-008 Order Form: OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Generators (40 CFR Part 262)**

Presents an overview of regulations applicable to generators of hazardous waste. Defines the terms “generator” and “co-generator.” Lists the three classes of generators, outlines the different generation and accumulation limits, and provides specific regulatory citations. Defines episodic generation. Explains the use of EPA identification numbers and manifests. Outlines the accumulation standards, defines “empty tank” and “start time” for waste accumulation purposes, and identifies regulations pertaining to accumulation in tanks, containers, containment buildings, and on drip pads. Defines “satellite accumulation” and provides applicable *FR* citations. Cites the *CFR* section covering record keeping and reporting requirements for generators. Explains how to obtain copies of notification forms and manifests. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/generators.pdf>.

09/15/2003

Order Number: EPA530-R-04-010 Order Form: OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Groundwater Monitoring (40 CFR Parts 264/265, Subpart F)**

Presents the requirements for groundwater monitoring at interim status and permitted TSDFs. Describes the groundwater monitoring criteria for interim status and permitted facilities. Explains monitoring well placement. Outlines the three stages of the groundwater monitoring program for permitted facilities. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/gwm.pdf>.

10/15/2001

Order Number: EPA530-K-02-010 Order Form: OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Hazardous Waste Identification (40 CFR Part 261)**

Presents the steps involved in the process of identifying, or “characterizing,” a hazardous waste. Focuses on the final steps in the process, and provides the definition of a hazardous waste. Defines these concepts: hazardous waste listings, hazardous waste characteristics, the “mixture” and “derived-from” rules, the “contained-in” policy and the Hazardous Waste Identification Rule (HWIR). Other steps in the process, including the definition of solid waste and the solid and hazardous waste exclusions are discussed in other modules. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/hwid.pdf>.

09/15/2003

Order Number: EPA530-R-04-012 Order Form: OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Land Disposal Restrictions (40 CFR Part 268)**

Presents an overview of the LDR program. Defines basic terms and describes the structure of LDR regulations. Identifies the statutory basis for LDR. Describes the applicability of LDR. Explains how EPA sets and identifies treatment standards for wastes subject to LDR and how extensions and variances from treatment requirements are obtained. Defines generator and TSDF requirements under the LDR program. Summarizes the schedule of existing restrictions and the plan for restricting newly identified wastes. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/ldr.pdf>. 09/15/2003

Order Number: EPA530-R-04-013 Order Form: OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Land Disposal Units (40 CFR Parts 264/265, Subparts K, L, M, N)**

Provides an overview of the requirements for landfills, surface impoundments, waste piles, and land treatment units. Cites the statutory and regulatory minimum technological requirements. Summarizes the differences between interim status (Part 265) and permitted (Part 264) standards for land disposal units. Defines "surface impoundment" and distinguishes surface impoundments from tanks. Describes surface impoundment retrofitting and retrofitting variance procedures. Explains the connection between land disposal standards, post-closure, and groundwater monitoring. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/ldu.pdf>.

09/15/2003

Order Number: EPA530-R-04-014 Order Form: OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Miscellaneous and Other Units (40 CFR Part 264, Subpart X and 40 CFR Part 265, Subparts P, Q, and R)**

Describes the basic requirements and types of units of 40 CFR Part 264, Subpart X, and standards for broadly defined treatment processes; thermal treatment (40 CFR Part 265, Subpart P); chemical, physical, and biological treatment (40 CFR Part 265, Subpart Q); and underground injection (40 CFR Part 265, Subpart R). Explains when corrective action applies to these subparts. Addresses the relationship between 40 CFR Part 264, Subpart X, and 40 CFR Part 265, Subparts P, Q, and R. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/misu.pdf>.

10/15/2001

Order Number: EPA530-K-02-014 Order Form: OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Municipal Solid Waste Disposal Facility Criteria**

Provides a summary of the regulatory criteria for MSW landfills. Presents the statutory authority under RCRA and CWA directing EPA to develop the MSW landfill criteria in 40 CFR Part 258. Gives the 40 CFR Part 258 effective date and the compliance dates for providing demonstrations to satisfy individual regulatory requirements. Identifies the types of facilities that qualify for the small landfill exemption. Explains the requirements of each subpart of 40 CFR Part 258 as they apply to states with EPA-approved MSW landfill permit programs and states without approved permit programs. Compares the MSW landfill environmental performance standards described in 40 CFR Part 258 to the corresponding requirements for hazardous waste TSDFs in 40 CFR Part 264, which are generally more stringent. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/mswd.pdf>.

09/15/2003

Order Number: EPA530-R-04-016 Order Form: OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Permits and Interim Status (40 CFR Part 270)**

Presents an overview of the RCRA permitting process and the requirements that apply to TSDFs operating under interim status until a permit is issued. Lists the types of activities that require a permit. Defines “existing hazardous waste facility” and “new hazardous waste facility.” Identifies *CFR* sections relevant to Part A and Part B permit application requirements and describes the difference between the two parts. Outlines steps in the process from interim status to receipt of permit. Cites the *CFR* citations pertaining to permit duration and modifications. Identifies the differences among permit modification classes. Enumerates the special forms of permits. Lists the types of facilities that may qualify for a permit-by-rule application. States the eligibility requirements for interim status and the conditions for termination of interim status. Identifies the conditions for changes during interim status. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/permits.pdf>. 09/15/2003

Order Number: EPA530-R-04-017 Order Form:OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Petitions, Delistings, and Variances (40 CFR, Part 260, Subpart C)**

Reviews the regulations governing rulemaking petitions. Specifies who may petition EPA to modify or revoke any provision in 40 *CFR* Parts 260 through 265 and 268, and what may be changed through the petition process. Lists the different components of a petition, and the steps in the petitioning, review, and decision processes. Discusses the applicability of “equivalent methods” and states the information needed for this type of petition. Describes the process in petitioning for a new or equivalent method. Specifies the purpose of delisting, what can be delisted, and the implications of a delisting petition. Outlines the delisting procedures and provides citations for them. Cites the *FR* that describe the EPA’s Composite Model for Landfills (EPACML) which EPA currently uses as a tool in evaluating delisting petitions. Identifies the types of variances granted. Also available on the Internet at <www.epa.gov/epaoswer/hotline/training/pdv.pdf>. (EPA530-R-97-063) 11/15/1997

Order Number: PB1998-108 186 Order Form:NTIS

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to RCRA Corrective Action**

Reviews the regulatory and statutory requirements and authorities governing the RCRA corrective action process. Lists the statutory authorities for corrective action and explains their application. Identifies the existing regulatory authorities for corrective action and explains their application. Describes the triggers for corrective action. Defines terms specific to the corrective action process (e.g., corrective action management units and action levels). Addresses how EPA is currently implementing the corrective action program and identifies significant components of the RCRA Cleanup Reforms. Describes how the corrective action program can apply to generators and other facilities that do not require a permit. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/cact.pdf>. 10/15/2001

Order Number: EPA530-K-02-017 Order Form: OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to RCRA Enforcement and Compliance**

Explains RCRA enforcement and describes the enforcement mechanisms. Describes enforcement procedures and mechanisms and the statutory authorities. Outlines the three different types of enforcement actions: administrative, civil, and criminal. Explains when and how EPA can enforce the RCRA regulations in authorized states. States the differences between enforcement at interim status and permitted facilities and addresses enforcement at federal facilities. Discusses some of EPA’s compliance incentive and assistance policies. Also available on the Internet at <www.epa.gov/epaoswer/hotline/training/enforc.pdf>. (EPA530-R-99-060) 10/15/1999

Order Number: PB2000-101 900 Order Form: NTIS

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to RCRA Financial Assurance (40 CFR Parts 264/265, Subpart H)**

Addresses financial assurance standards explaining first the allowable financial mechanisms and then the extent of financial coverage required. Lists the types of facilities subject to the financial assurance requirements for closure and post-closure. Identifies necessary factors in calculating cost estimates. Explains allowable mechanisms for financial assurance, including which mechanisms can be used together and under what conditions. Presents the financial assurance requirements for accident liability coverage. Discusses the applicability of sudden and non-sudden liability provisions. Specifies the amount of liability coverage required for single and multiple facilities. Lists allowable mechanisms and combinations of mechanisms that can be used to satisfy financial assurance liability requirements. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/fina.pdf>.

10/15/2001

Order Number: EPA530-K-02-0018 Order Form: OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to RCRA Solid Waste Programs**

Focuses on EPA's efforts in municipal and industrial solid waste, which are primarily regulated by the states and municipalities and managed on the local level. Discusses the only exceptions: 40 CFR Part 257, federal solid waste disposal criteria for nonhazardous, nonmunicipal landfills and 40 CFR Part 258, the Federal Solid Waste Disposal Facility Criteria that provides EPA's requirements for the design and operation of landfills. Describes EPA's role in implementing solid waste management programs, including setting national goals, providing leadership and technical assistance, and developing educational materials. Addresses MSW; EPA's integrated waste management hierarchy; source reduction and unit pricing; recycling, including federal procurement, the JTR Initiative, and the WasteWise program; combustion and MSW combustion ash; landfilling; and MSW management issues - flow control, the degradable ring rule, and household hazardous waste. Defines industrial solid waste, explains the revised criteria for solid waste disposal and facility practices, and describes the draft voluntary guidance for the management of industrial non-hazardous waste in land-based disposal units. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/swprg.pdf>.

10/15/2001

Order Number: EPA530-K-02-019 Order Form: OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to RCRA State Programs**

Outlines the requirements and procedures for a state to become authorized to manage and oversee its own RCRA program. Describes how the state authorization system can affect the applicability of certain rules. Specifies why states are authorized by EPA and lists the elements of an authorized state program. Identifies components of an authorization application and outlines the stages of EPA's approval process. Specifies the applicability of HSWA and non-HSWA provisions in authorized and unauthorized states. Defines the effect of the "cluster rule." Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/state.pdf>.

10/15/2001

Order Number: EPA530-K-02-020 Order Form: OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to RCRA Statutory Overview**

Presents a brief overview of RCRA. Emphasizes the components of Subtitles C, D, and I, which provide the authority for EPA to establish many of the major regulatory components of the hazardous waste, solid waste, and underground storage tank programs. Explains the relationship between RCRA statutory language and codified regulatory language. Describes the major components of each subtitle. Identifies the major provisions established by the Hazardous and Solid Waste Amendments (HSWA). Also available on the Internet at <www.epa.gov/epaoswer/hotline/training/statov.pdf>. (EPA530-R-99-063) 10/15/1999

Order Number: PB2000-101 903 **Order Form:** NTIS

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to RCRA Treatment, Storage, and Disposal Facilities (40 CFR Parts 264/265, Subparts A-E)**

Presents an overview of the general TSDf standards found in 40 CFR Parts 264 and 265, Subparts A through E. Identifies and explains each exclusion from 40 CFR Parts 264 and 265 and provides definitions of excluded units, such as a "waste-water treatment unit" and an "elementary neutralization unit." Locates and describes the requirements for waste analysis and personnel training. States the purpose of a contingency plan, and lists the emergency notification procedures. Addresses manifest procedures and responsibilities, and lists the unmanifested waste reporting requirements. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/tsdf.pdf>.

09/15/2003

Order Number: EPA530-R-04-023 **Order Form:** OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Solid and Hazardous Waste Exclusions (40 CFR Section 261.4)**

Explains each waste exclusion and its scope, so one can apply this knowledge in determining whether a given waste is regulated under RCRA Subtitle C. Cites the regulatory section for exclusions and identifies materials that are not solid wastes and solid wastes that are not hazardous wastes. Locates the manufacturing process unit exclusion. Identifies the sample and treatability study exclusions and their applicability. Outlines and specifies the conditions for meeting the exclusions for household wastes and mixtures of domestic sewage. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/excl.pdf>.

10/15/2001

Order Number: EPA530-K-02-022 **Order Form:** OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Tanks (40 CFR Parts 264/265, Subpart J)**

Identifies, based on tank contents and operation, tanks that are regulated under 40 CFR Parts 264 and 265, Subpart J. Defines specific terms pertaining to hazardous waste tanks and provides CFR or FR citations. Distinguishes "new tanks" from "existing tanks" and identifies how this status affects applicable regulations. Discusses secondary containment requirements for liners, vaults, and double-walled tanks, as well as secondary containment for ancillary equipment. Identifies which of the hazardous waste requirements were promulgated under HSWA and non-HSWA authority and explains how each applies in authorized and unauthorized states. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/tanks.pdf>.

09/15/2003

Order Number: EPA530-R-04-025 **Order Form:** OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Transporters (40 CFR Part 263)**

Provides an overview of the regulatory requirements of transporters of hazardous wastes. Lists the conditions and requirements for a transfer facility. Identifies transporter record keeping and manifesting requirements. Identifies transporter requirements when exporting hazardous waste. States the conditions under which a transporter is subject to generator regulations. Cites the *CFR* section covering transporter responsibilities for hazardous waste discharges. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/trans.pdf>. 10/15/2001

Order Number: EPA530-K-02-024 Order Form: OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Universal Waste (40 CFR Part 273)**

Describes the universal waste program and defines which hazardous wastes may be handled under these streamlined regulations. Identifies the wastestreams subject to the universal waste program. Names the participants in the universal waste program. Explains the regulations for each type of participant. Outlines state authorization procedures. Addresses the relationship of the Mercury-Containing and Rechargeable Battery Management Act to EPA's universal waste program. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/uwaste.pdf>.

09/15/2003

Order Number: EPA530-R-04-028 Order Form: OSW

***RCRA, Superfund, and EPCRA Call Center Training Module: Introduction to Used Oil (40 CFR Part 266, Subpart E, and Part 279)**

Provides an overview of the used oil management program and explains the different regulatory scenarios that can apply to used oil. Distinguishes between used oil management standards of 40 *CFR* Part 279 and the former used oil regulations under 40 *CFR* Part 266, Subpart E. Identifies the different types of used oil handlers and their requirements under the used oil management standards; summarizes the requirements for used oil handlers under the former program. Explains the difference between on- and off-specification used oil; distinguishes between the recycling presumption and the rebuttable presumption. Describes how present regulations will become effective in both authorized and unauthorized states. Explains under what circumstances used oil filters may be disposed of as nonhazardous. Describes the four pathways of potential regulation of used oil under the former program and compares differences with the present used oil management standards. Only available on the Internet at <www.epa.gov/epaoswer/hotline/training/uoil.pdf>. 10/15/2001

Order Number: EPA530-K-02-025 Order Form: OSW

***RCRA Waste Sampling Draft Technical Guidance: Planning, Implementation, and Assessment**

Contains recommended procedures for sampling solid waste under RCRA. Addresses planning (data quality objectives process, quality assurance project plan or waste analysis plan), implementation (field sample collection, sample analysis, and associated quality assurance/quality control activities), and assessment (data verification and validation, data quality assessment, and conclusions drawn from data). Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/test/samp_guid.htm>.

08/15/2002

Order Number: EPA530-D-02-002 Order Form: OSW

RCRIS Extract CD-ROM

RCRIS is the national program management and inventory system of RCRA hazardous waste handlers. Handlers can be characterized as belonging to one or more of the following categories: TSDFs; LQGs; SQGs; and transporters. RCRIS captures identification and location information for hazardous waste handlers and a wide range of information on TSDFs regarding permit and closure status, compliance with federal and state regulations, and cleanup activities. The CD-ROM includes all handler identification and permitting data available from the RCRIS National Oversight Database. The CD-ROM includes most of the Compliance Monitoring and Enforcement data except for data deemed enforcement sensitive by EPA. Available by subscription.

Order Number: PB2001-592 570INQ *Order Form: NTIS*

Reactivity Characteristic (40 CFR 261.23); Identification and Listing of Hazardous Waste Under RCRA, Subtitle C, Section 3001

Explains EPA's definition of reactive wastes. Discusses the comments received on the proposed definition of reactive waste and the subsequent changes made.

05/01/1980

Order Number: PB81-184 988 *Order Form: NTIS*

Recolección de Aceite Usado para Reciclaje o Reutilización: Consejos para los consumidores que cambian ellos mismos el aceite y el filtro de aceite de su automóvil (Spanish Translation of *Collecting Used Oil for Recycling/Reuse: Tips for Consumers Who Change their Own Motor Oil and Oil Filters*)

Contiene instrucciones detallados para cambiar y reciclar el aceite y el filtro de aceite de su automóvil.

15/01/1997

Número de Pedido: *EPA530-F-94-008S*
Formulario de Pedido: *OSW*

Recycle: You Can Make a Ton of Difference (Brochure)

Introduces the national recycling campaign by providing an overview of solid waste problems and recycling solutions.

04/15/1992

Order Number: EPA530-F-92-003 *Order Form: OSW*

Recycle: You Can Make a Ton of Difference (Poster)

Full-color poster promotes greater use of recycling. Depicts a student on one side of a set of scales balancing a large pile of waste to illustrate the impact each individual can have on the solid waste dilemma. Reflects the global nature of MSW management, urging readers in six different languages to adopt recycling.

04/15/1992

Order Number: EPA530-H-92-001 *Order Form: OSW*

Recycling Guide for Native American Nations

Describes several ways to participate in each facet of recycling: collection, manufacture, and purchase. Addresses setting up a recycling program, creating recycling jobs, and establishing a buy-recycled program.

06/15/1995

Order Number: EPA530-K-95-006 *Order Form: OSW*

Recycling is Working in the United States

Summarizes the U.S. Recycling Economic Information (REI) Study, which demonstrates the importance of recycling and reuse to the U.S. economy. Includes charts and tables. Lists organizations sponsoring the study and additional sources of information.

01/15/2002

Order Number: EPA530-F-02-005 *Order Form: OSW*

Recycling Means Business

Introduces Recycling Means Business, EPA's strategy for supporting the national effort to expand markets for recycled materials. Discusses both the environmental and economic benefits of boosting the recycling market. Addresses the national and local impact of this strategy. Includes a list of EPA resource centers.

09/15/1995

Order Number: EPA530-K-95-004 **Order Form:** OSW

Recycling the Hard Stuff

Fact sheet discusses the technical difficulties and high cost associated with separating plastics. Describes new separation technologies - automated separation, froth flotation, and skin flotation. Addresses benefits and challenges.

Also available in the kit folder *Climate Change and Waste*.

07/15/2002

Order Number: EPA530-F-02-023 **Order Form:** OSW

Recycling Works! State and Local Solutions to Solid Waste Management Problems

Presents an overview of recycling in the United States. Discusses integrated waste management, reasons to recycle, and adding recycling to an existing municipal solid waste program. Addresses choosing and collecting recyclables and marketing recovered materials. Provides examples of successful recycling programs initiated by state and local agencies, as well as private recycling efforts and public-private partnerships between government and businesses. Includes a complete listing of state-level recycling offices, with addresses, phone numbers, and web sites.

04/15/1999

Order Number: EPA530-K-99-003 **Order Form:** OSW

Reducing Backyard Burning in Indian Country

Brochure informing tribal residents of the health hazards of burning household waste in burn barrels and open piles. Discusses dioxins and other air pollutants. Provides alternatives to burning.

08/15/2003

Order Number: EPA530-F-03-017 **Order Form:** OSW

Reducing Waste When You Travel: Making Environmental Choices

Provides tips for consumers to reduce waste, conserve resources, and minimize the overall environmental impact of travel, whether for business or pleasure. Covers activities before leaving; hotel tips; camping, fishing, or hiking; sightseeing, outings, and dining; and ecotourism. Lists resources. Included in *The Power of Change Protecting the Environment for the Next Generation Kit*.

08/15/2004

Order Number: EPA530-F-04-019 **Order Form:** OSW

Re-Engineering RCRA for Recycling: Report and Recommendations of the Definition of Solid Waste Task Force

Presents the recommendations of the Definition of Solid Waste Task Force, established in October 1992 to address concerns about the current definition of solid waste and how it affects waste recycling. Describes the current system and suggests improvements to the regulations for recycling under Subtitle C of RCRA. Considers RCRA-exempt and excluded recycling. Proposes a new classification scheme for RCRA recycling. Addresses industry-specific and Basel Convention issues.

11/15/1994

Order Number: EPA530-R-94-016 **Order Form:** OSW

Regional Guidance Manual for Selected Interim Status Requirements (Draft)

Assists regions in interpreting selected requirements from the Interim Status Standards for facilities managing hazardous waste. Provides background information and general guidance to aid permitting officials in evaluating responses to certain interim status regulations.

09/15/1980

Order Number: PB87-194 130 **Order Form:** NTIS

**Reglamento de Participación Pública
Expandida de la RCRA (Spanish
Translation of *RCRA Expanded Public
Participation Rule*)**

Describe el reglamento que amplía la participación pública en EPA (siglas en inglés de la Agencia para la Protección Ambiental) facultando a las comunidades a interesarse más activamente en el manejo de desechos peligrosos de su localidad. Trata de involucrar al público desde el inicio en el proceso de otorgamiento de permisos, proporcionando más oportunidades para la participación pública, ampliando el acceso del público a la información, y ofreciendo una orientación de cómo los establecimientos pueden mejorar la participación pública.
15/02/1996

Número de Pedido: EPA530-F-95-030S
Formulario de Pedido: OSW

**Reglamento de Residuos Universales
(Spanish Translation of *Universal Waste
Rule*)**

El reglamento de residuos universales de la Agencia de Protección Ambiental (EPA por sus siglas en inglés) fue diseñado para reducir la cantidad de residuos peligrosos en el flujo de residuos sólidos municipal, fomentar el reciclaje y disposición apropiada de ciertos residuos peligrosos y reducir las obligaciones reglamentales para empresas que generan estos residuos. Los residuos universales que se definen en el documento incluyen ciertas baterías, pesticidas agrícolas y termostatos. El documento describe como empresas, residencias y comunidades son afectadas por este reglamento y analiza el papel del destado para implementarlo.
15/02/1996

Número de Pedido: EPA530-F-95-025S
Formulario de Pedido: OSW

**Regulation of Fuel Blending and Related
Treatment and Storage Activities**

Memo addresses questions about the regulatory status of hazardous waste fuel blending activities. Discusses permit requirements, appropriate unit standards, air emission standards, transfer facilities, and LDRs for generators and fuel blending facilities.
10/17/1994

Order Number: EPA530-F-94-031 **Order Form:** OSW

Regulatory Analysis of RCRA Regulations

Summarizes the regulatory alternatives considered and selected for RCRA Subtitle C Regulations and the impacts of the regulations. Presents 400 cases of harmful consequences from inadequate hazardous waste management.
04/30/1980

Order Number: PB81-181 471 **Order Form:** NTIS

***Regulatory Changes Proposed for
Certain Hazardous Waste Recycling
Activities**

Fact sheet announcing EPA's proposal to modify the hazardous waste management regulations in order to increase recycling and conserve resources making it easier to recycle more than one million tons of hazardous waste, and to recover from these wastes metals, solvents, and other usable materials worth an estimated value of nearly one billion dollars. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/dsw/abr-rule/abr-fs.pdf>.
10/15/2003

Order Number: EPA530-F-03-035 **Order Form:** OSW

**Regulatory Determination: Landfills and
Surface Impoundments Receiving Pulp
and Paper Mill Sludge**

Reports EPA's conclusion that dioxin contained in pulp and paper mill sludges disposed of in landfills and surface impoundments does not pose unreasonable probability of adverse effects on human health and the environment. EPA concludes that further regulation of facilities to reduce potential dioxin-related risks is not warranted.
10/15/1991

Order Number: EPA530-SW-91-077 **Order Form:** OSW

**Regulatory Impact Analysis for the Final
Criteria for Municipal Solid Waste
Landfills**

Analyzes EPA's revisions to Subtitle D criteria MSW landfills. Evaluates hybrid approach relative to four regulatory alternatives in terms of costs, economic impacts, impacts on small entities, health risk, and resource damage.
(EPA530-SW-91-073A) 12/15/1990

Order Number: PB92-100 841 **Order Form:** NTIS

Regulatory Impact Analysis for the Proposed Rulemaking on Corrective Action for Solid Waste Management Units

Reports results from the analysis performed in conjunction with the proposed rule to require corrective action for releases from solid waste management units at hazardous waste TSDFs. Assesses impact of proposed rule on small businesses. Determines that rule will not have significant impact on substantial numbers of such businesses.

(EPA530-SW-90-081)

06/25/1990

Order Number: PB91-102 061

Order Form: NTIS

Regulatory Impact Analysis of Land Disposal Restrictions for Newly Identified Wastes and Hazardous Soil (Phase II LDRs); Final Rule

Analyzes the costs, economic impacts, and benefits resulting from the LDRs for newly identified wastes and hazardous soil. Examines wastes affected by the rule. Considers costs of restricting the land disposal of Phase II wastes. Discusses the economic impacts and benefits of Phase II LDRs.

(EPA530-R-95-035)

07/29/1994

Order Number: PB95-230 959

Order Form: NTIS

Regulatory Impact Analysis of the Phase III Land Disposal Restrictions Final Rule and Addendum: Revised Risk Assessment for Spent Aluminum Potliners

Estimates the costs, economic impacts, and benefits of the Phase III LDR rule. Provides background to the LDR program and the Phase III rule. Discusses methodology for estimating affected quantities of characteristic wastes and newly listed wastes. Addendum includes new fate and transport data for spent aluminum potliner disposal and their effect on the risk assessment.

(EPA530-R-97-021)

02/15/1996

Order Number: PB97-176 846

Order Form: NTIS

Regulatory Impact Analysis of the Phase IV Land Disposal Restrictions for Newly Identified Wood Preserving Wastes

Estimates the costs, economic impacts, and benefits of the wood preserving wastes provisions of the Phase IV LDR rule. Presents the industries and wastes that will be affected by the rule; estimates the costs associated with treating those wastes to comply with LDR standards; determines the impact that these additional treatment costs will have on facilities' operating costs, and evaluates the human health and ecological benefits attributable to reductions in pollutant discharges required by the rule. Analyzes impacts on small businesses.

(EPA530-R-97-030)

04/15/1997

Order Number: PB97-176 952

Order Form: NTIS

Regulatory Impact Analysis: Phase IV Land Disposal Restrictions: TC Metals Wastes; Final Report

Estimates the costs, economic impacts, and benefits of the Phase IV LDR rulemaking for toxicity characteristic metal sources, including those generated with organic underlying hazardous constituents. Examines affected industries, National Hazardous Waste Constituent Survey data, waste generation and management under BRS, and current treatment practices. Provides management costs analysis. Addresses waste management decisions, aggregate costs, economic impacts, and impacts on small entities. Discusses benefits and benefit-cost comparison. Includes references. Appendices contain development of cost functions for toxicity characteristic metals wastes with organic underlying hazardous constituents, cost and economic impacts, groundwater risk screening analysis for non-ferrous foundry sands managed in municipal landfills, and a screening analysis of the economic impacts of the LDR on small businesses in the zinc sulfate fertilizer industry.

(EPA530-R-98-028)

05/04/1998

Order Number: PB99-156 036

Order Form: NTIS

Report on Emergency Incidents at Hazardous Waste Combustion Facilities and Other Treatment, Storage, and Disposal Facilities (TSDFs)

Provides information on reported emergency incidents from December 1977 through August 1995 at hazardous waste combustion facilities and other TSDFs regulated under RCRA. Compiles information obtained from regional and state waste combustion experts and permit writers. Includes some incidents that occurred before RCRA and its safeguards were in effect and two incidents that took place after 1995. Includes detailed incident reports when available.
04/15/1999

Order Number: EPA530-R-99-014 Order Form: OSW

Report on Minimum Criteria to Assure Data Quality

Discusses EPA's quality assurance program to ensure that all data are scientifically valid, defensible, and of known precision and accuracy. In addition, data need to be of sufficient known quality to withstand scientific and legal challenge relating to the use for which the data were gathered.
12/12/1989

Order Number: EPA530-SW-90-021 Order Form: OSW

Report to Congress: A Study of the Use of Recycled Paving Material

Addresses recycling, performance, and the human health and environment issues related to asphalt pavement containing recycled rubber; the economic savings, technical performance, and threats and benefits to human health and the environment of using recycled materials in highways; and the utilization and practices of all states relating to the reuse and disposal of highway materials. Joint report of EPA and U.S. Department of Transportation (Federal Highway Administration), required by the Intermodal Surface Transportation Efficiency Act of 1991.
07/15/1993

Order Number: EPA530-R-93-013 Order Form: OSW

Report to Congress: EPA Activities and Accomplishments Under the Resource Conservation and Recovery Act: Fiscal Years 1980-1985

Describes regulatory development and implementation activities accomplished from 1980 through 1985. Documents the development of RCRA regulatory programs.
(EPA530-SW-86-027) 07/15/1986

Order Number: PB86-232 154 Order Form: NTIS

Report to Congress: EPA Activities and Accomplishments Under the Resource Conservation and Recovery Act: Fourth Quarter Fiscal Year 1986 Through Fiscal Year 1987

Describes activities to carry out the mandates of RCRA and HSWA of 1984. Starts with the last quarter of fiscal year 1986 and extends through the end of fiscal year 1987. Covers several activities undertaken to satisfy many 1984 provisions for solid waste. Summarizes contents of each chapter.
12/15/1987

Order Number: EPA530-SW-88-007 Order Form: OSW

***Report to Congress: Evaluating the Consensus Best Practices Developed through the Howard Hughes Medical Institute's Collaborative Hazardous Waste Management Demonstration Project and the Need for Regulatory Changes to Carry Out Project Recommendations**

Discusses a collaborative project initiated by the Howard Hughes Medical Institute (HHMI) to establish and evaluate a performance-based approach to management of hazardous wastes in the laboratories of academic research institutions. Addresses the difficulties academic institutions have in complying with RCRA regulations due largely to their industry-oriented framework. States that EPA is developing an approach that builds upon the consensus best practices as well as other ongoing efforts to provide labs needed flexibility while maintaining effective protection for human health and the environment. Includes the Report on Consensus Best Practices for Managing Hazardous Wastes in Academic Research Institutions prepared by the Howard Hughes Medical Institute of Laboratory Safety in collaboration with the project's principal participants. Only available on the Internet at <www.epa.gov/epaoswer/osw/specials/labwaste/r02008.pdf>

03/15/2002

Order Number: EPA530-R-02-008 Order Form: OSW

Report to Congress: Management of Hazardous Wastes From Educational Institutions

Identifies statutory and regulatory requirements for educational institutions managing hazardous waste. Examines current hazardous waste management practices at institutions and identifies possible ways for educational institutions to improve hazardous waste management. (EPA530-SW-89-040) 04/15/1989

Order Number: PB89-187 629 Order Form: NTIS

Report to Congress: Management of Hazardous Wastes From Educational Institutions; Executive Summary

Involves problems associated with managing hazardous wastes from educational institutions. Identifies statutory and regulatory requirements for educational institutions managing hazardous waste. Examines current hazardous waste management practices, and identifies hazardous waste problems encountered. Report concludes by identifying ways for educational institutions to improve hazardous waste management. 04/15/1989

Order Number: EPA530-SW-89-040A Order Form: OSW

Report to Congress: Management of Wastes From the Exploration, Development, and Production of Crude Oil, Natural Gas, and Geothermal Energy (Complete Set)

Responds to study requirements described by Congress in various paragraphs of Section 8002(m) of the 1980 amendments of RCRA. Includes an executive summary and three volumes. (EPA530-SW-88-003) 12/15/1987

Order Number: PB88-146 212 Order Form: NTIS

Report to Congress: Management of Wastes From the Exploration, Development, and Production of Crude Oil, Natural Gas, and Geothermal Energy; Executive Summaries

Responds to study requirements described by Congress in Section 8002(m) of the 1980 amendments to RCRA. Congress temporarily exempted several types of solid wastes from regulation (e.g., drilling fluids, produced waters, and other wastes associated with production of crude oil or natural gas). Studies Congressional intent to provide opportunity for developing appropriate strategy for waste management. (EPA530-SW-88-003D) 12/15/1987

Order Number: PB88-146 253 Order Form: NTIS

Report to Congress: Management of Wastes From the Exploration, Development, and Production of Crude Oil, Natural Gas, and Geothermal Energy; Volume 1: Oil and Gas

Reports on management of waste under section 3001(B)(2)(A) of RCRA. Discusses wastes generated only by the onshore segment of oil and gas industry. Volume 1 of three. (EPA530-SW-88-003A) 12/15/1987

Order Number: PB88-146 220 Order Form: NTIS

Report to Congress: Management of Wastes From the Exploration, Development, and Production of Crude Oil, Natural Gas, and Geothermal Energy; Volume 2: Geothermal Energy

Covers the geothermal energy industry. Defines exempt wastes, characterizes the wastes, describes current and alternative disposal practices, and estimates the costs of these practices. Volume 2 of three. (EPA530-SW-88-003B) 12/15/1987

Order Number: PB88-146 238 Order Form: NTIS

Report to Congress: Management of Wastes From the Exploration, Development, and Production of Crude Oil, Natural Gas, and Geothermal Energy; Volume 3: Appendices

Summarizes state oil and gas regulations. Includes a glossary of terms for Volume 1 and damage case summaries. Volume 3 of three.

(EPA530-SW-88-003C) 12/15/1987

Order Number: PB88-146 246 Order Form: NTIS

Report to Congress: Methods to Manage and Control Plastic Wastes

Examines plastic waste reduction through source reduction and methods for controlling sources of plastic marine debris in response to the Plastic Pollution Research and Control Act. Focuses on plastic waste in the MSW stream.

(EPA530-SW-89-051) 02/15/1990

Order Number: PB90-163 106 Order Form: NTIS

Report to Congress: Methods to Manage and Control Plastic Wastes; Executive Summary

Responds to Section 2202 of the 1987 Plastic Pollution Research and Control Act. Focuses on postconsumer plastic waste. Includes plastics in marine environments, waste management, and source reduction.

02/15/1990

Order Number: EPA530-SW-89-051A Order Form: OSW

Report to Congress on Cement Kiln Dust

Introduces the analysis with a brief summary of the purpose and scope of the report, general methods, information sources used, and EPA's decision-making methodology. Provides a brief overview of the industry, including a description of cement kiln dust waste, the industry structure and characteristics, the cement manufacturing process, the types of production processes used, and significant process inputs. Discusses the generation and chemical and physical characteristics of cement kiln dust. Outlines the range of cement kiln dust management methods employed at domestic cement plants. Identifies and summarizes cases of potential and documented damages to human health and the environment. Includes a discussion of EPA's risk assessment in which the Agency examined inherent hazards posed by cement kiln dust, evaluated site-specific risk factors, and performed quantitative transport, fate, and exposure modeling. Reviews applicable federal and state regulatory controls. Investigates alternative waste management practices and potential utilization of the wastes. Discusses costs and impacts under each of several regulatory and operational scenarios. Presents EPA's study findings and regulatory options.

(EPA530-R-94-001) 12/15/1993

Order Number: PB94-126 919 Order Form: NTIS

Report to Congress on Cement Kiln Dust; Executive Summary

Addresses the sources and volumes of cement kiln dust generated per year; present disposal practices; potential danger, if any, to human health and the environment from disposal of cement kiln dust; documented cases in which danger to human health or the environment has been proven; alternatives to current disposal methods; the costs of such alternatives; the impact of those alternatives on the use of natural resources; and the current and potential utilization of cement kiln dust. Includes a review of applicable state and federal regulations. Discusses evaluation criteria, organization of the Report to Congress, information sources and methods, technical findings, decision rationale and regulatory options, and next steps.

12/15/1993

Order Number: EPA530-S-94-001 Order Form: OSW

Report to Congress on Flow Control and Municipal Solid Waste

Defines flow controls as legal authorities used by state and local governments to designate where MSW must be taken for processing, treatment, or disposal. Presents a comparative review of states with and without flow control authority, identifies the impact of flow control ordinances on protection of human health and the environment, characterizes the impact of flow control on the development of state and local waste management capacity and on the achievement of state and local goals for source reduction, reuse, and recycling. Appendices include a summary of public comments on flow control; legal decisions concerning MSW flow controls; summary matrix of state flow control authorities; flow control case studies; and technical analyses of waste generation, compost segment, recycling segment, waste-to-energy segment, and landfill segment.

(EPA530-R-95-008) 03/15/1995

Order Number: PB95-179 263 Order Form: NTIS

Report to Congress on Flow Control and Municipal Solid Waste; Executive Summary

Outlines EPA's findings on flow controls. Defines flow controls and factors encouraging their use. Summarizes a comparative review of states with and without flow control authority.

03/15/1995

Order Number: EPA530-S-95-008 Order Form: OSW

Report to Congress on Metal Recovery, Environmental Regulation and Hazardous Waste

Presents results of a study on the effects existing regulations have on metal recovery of the nation's wastes, how metal recovery can be encouraged, and how these materials should be regulated to protect human health and the environment. Presents an overview of metal recovery of hazardous waste and RCRA regulation. Addresses report methodology and its limitations. Characterizes RCRA Subtitle C metal-bearing hazardous wastes. Assesses impact of RCRA regulations on metal recovery from hazardous waste. Appendices provide examples for source reduction in industries that generate metal-bearing hazardous waste and more specific information on hazards associated with metals.

(EPA530-R-93-018) 02/15/1994

Order Number: PB94-184 850 Order Form: NTIS

Report to Congress on Metal Recovery, Environmental Regulation and Hazardous Waste; Executive Summary

Summarizes the study on the effects existing regulations have on metal recovery of the nation's wastes, how metal recovery can be encouraged, and how these materials should be regulated to protect human health and the environment.

02/15/1994

Order Number: EPA530-S-93-018 Order Form: OSW

Report to Congress on Special Wastes From Mineral Processing: Summary and Findings

Summarizes findings pertaining to special wastes from mineral processing. Includes sources and volumes of materials generated per year, present disposal and utilization practices, the potential danger to health and environment, documented and proved cases of danger to health and environment, alternatives to current disposal methods, costs of alternatives, impacts of alternatives on use of phosphate rock, uranium ore, and other natural resources, and current and potential uses of waste materials.

07/15/1990

Order Number: EPA530-SW-90-070B Order Form: OSW

Report to Congress on Special Wastes from Mineral Processing: Summary and Findings; Methods and Analyses; Appendices

Examines RCRA waste exemption for mineral processing. Describes events in the rulemaking process and criteria used by EPA to exempt 20 special wastes from mineral processing operations. Reports sources and volumes of wastes, including present disposal practices, documented cases of danger, alternatives to current disposal methods, costs of alternatives, and impacts of alternatives on natural resources.

(EPA530-SW-90-070C) 07/15/1990

Order Number: PB90-258 492 Order Form: NTIS

Report to Congress on the Minimization of Hazardous Wastes (Complete Set)

Provides background on waste minimization and presents data and information on developing national waste minimization strategy. Reviews options available to encourage more waste minimization at federal level, including recommendations by EPA. Includes three volumes and appendices.
(EPA530-SW-86-033) 10/15/1986

Order Number: PB87-114 328 Order Form: NTIS

Report to Congress on the Minimization of Hazardous Wastes

Provides background on waste minimization and presents data and information on developing a national waste minimization strategy. Reviews options available to encourage more waste minimization at federal level, including recommendations by EPA.
(EPA530-SW-86-033A) 10/15/1986

Order Number: PB87-114 336/AS Order Form: NTIS

Report to Congress on the Minimization of Hazardous Wastes; Appendices

Presents analysis of impacts of waste minimization options, and explores circumstances and conditions that might be useful for meeting waste minimization objectives. Covers characteristics of each option including implementation, technical effectiveness, and impacts on industry. Provides general summary and recommendations.
(EPA530-SW-86-033B) 10/15/1986

Order Number: PB87-114 344 Order Form: NTIS

Report to Congress on Waste Minimization: Issues and Options; Volume I

Identifies waste minimization practices by industry processes and by major waste stream. Describes factors that promote and inhibit adoption of waste minimization practices by industry and strategies by which waste minimization can be increased.
(EPA530-SW-86-041) 10/15/1986

Order Number: PB87-114 351/AS Order Form: NTIS

Report to Congress on Waste Minimization: Issues and Options; Volume II

Contains Appendix A: Data Bases Used in Study and Appendix B: Process Studies.
(EPA530-SW-86-042) 10/15/1986

Order Number: PB87-114 369/AS Order Form: NTIS

Report to Congress on Waste Minimization: Issues and Options; Volume III

Contains Appendices C through K. Includes recycling technologies and practices, Northeast Industrial Waste Exchange's online computer system, conducting project profitability analysis, EPA's definition of solid waste, correspondence from EPA on waste minimization activities, compilation of industrial waste reduction cases, EPA's environmental auditing policy statement, descriptions of 11 state programs, and two proposed regulations on hazardous waste management by two counties in California.
(EPA530-SW-86-043) 10/15/1986

Order Number: PB87-114 377/AS Order Form: NTIS

Report to Congress: Recovery and Recycling of Plastics From Durable Goods

Summarizes progress in the recovery of plastics from postconsumer durable goods, defined as items used by consumers for three or more years before disposal. Discusses the current status of postconsumer durable plastics recycling in the United States. Addresses barriers to recycling postconsumer durable plastics. Details current initiatives (e.g., developing a collection infrastructure; enhancing dismantling operations, resin identification, and design for recycling; advancements in sorting technology; and enhancing markets for recovered plastics). Presents EPA activities to accelerate plastics recycling. Includes a table of resin characteristics, markets, and products.

09/15/1995

Order Number: EPA530-R-95-042 Order Form: OSW

Report to Congress: Solid Waste Disposal in the United States; Executive Summary

Addresses the disposal of nonhazardous solid waste regulated under Subtitle D of RCRA. Includes different types of waste streams such as MSW, industrial waste, and oil and gas waste. Discusses adequacy of current Subtitle D regulatory program. Volume I presents conclusions and recommendations of Subtitle D study. Volume II contains results of data collection efforts. Includes major findings and recommendations.

10/15/1988

Order Number: EPA530-SW-88-011A Order Form: OSW

Report to Congress: Solid Waste Disposal in the United States; Volume I

Presents conclusions and recommendations of a Subtitle D study to evaluate the adequacy of the program. Objectives addressed include disposal of nonhazardous solid waste, which includes MSW, oil and gas waste, and industrial waste at landfills, waste piles, land application units, and surface impoundments.

(EPA530-SW-88-011) 10/15/1988

Order Number: PB89-110 381 Order Form: NTIS

Report to Congress: Solid Waste Disposal in the United States; Volume II

Contains results of data collection efforts for Volume I. Presents study methodology, data collection projects, Subtitle D wastes, Subtitle D facilities, and Subtitle D state programs.

(EPA530-SW-88-011B) 10/15/1988

Order Number: PB89-110 399 Order Form: NTIS

Report to Congress: Wastes from the Combustion of Coal by Electric Utility Power Plants

Describes utility waste by source and quantity, current uses, and disposal practices based on numerous private and government studies. Discusses alternatives to disposal, including the costs of current and alternative waste management practices. Includes requirements from Section 8002(n) of RCRA.

(EPA530-SW-88-002) 02/15/1988

Order Number: PB88-177 977 Order Form: NTIS

Report to Congress: Wastes from the Combustion of Coal by Electric Utility Power Plants; Appendices

Provides background data, charts, and graphs to support the Report to Congress.

(EPA530-SW-88-002A) 02/15/1988

Order Number: PB88-177 985 Order Form: NTIS

Report to Congress: Wastes From the Combustion of Coal by Electric Utility Power Plants; Executive Summary

Examines wastes generated from combustion of coal by the electric utility industry. Concludes that coal combustion waste streams generally do not exhibit hazardous characteristics under current RCRA regulations. The report finds that several other wastes from coal-fired utilities may exhibit hazardous characteristics of corrosivity or extraction procedures toxicity and merit regulation under Subtitle C. Summarizes findings that coal combustion wastes provide one method for reducing the amount of hazardous wastes that need to be disposed of responsibly.

02/15/1988

Order Number: EPA530-SW-88-002A.1 Order Form: OSW

Report to Congress: Wastes from the Combustion of Fossil Fuels; Volume 1 — Executive Summary

Provides background and information on the organization and scope of the Report to Congress. Discusses information sources and methods. Summarizes findings for coal-fired utility co-managed wastes, non-utility coal combustion wastes, fluidized bed combustion wastes, oil combustion wastes, and natural gas combustion wastes. Includes references and glossary.

03/15/1999

Order Number: EPA530-S-99-010 Order Form: OSW

Report to Congress: Wastes from the Combustion of Fossil Fuels; Volume 2 — Methods, Findings, and Recommendations

Provides background and information on the purpose and scope of the report. Addresses general methods, information sources, and the decision-making process. Presents an industry overview. Discusses waste generation, waste characteristics, current management practices, potential and documented dangers to human health and the environment, existing regulatory controls, waste management alternatives, compliance costs and economic impacts, and findings and recommendations for co-managed wastes at coal-fired utilities, non-utility coal combustion wastes, fluidized bed combustion wastes, and oil combustion wastes. Addresses technology and findings and recommendations for natural gas combustion wastes. Includes references and glossary. Contains figures and tables.

03/15/1999

Order Number: EPA530-R-99-010 *Order Form: OSW*

Report to Congress: Wastes From the Extraction and Beneficiation of Metallic Ores, Phosphate Rock, Asbestos, Overburden From Uranium Mining, and Oil Shale

Addresses wastes from extraction and beneficiation of metallic ores, uranium overburden, and non-metals asbestos and phosphate rock. Summarizes EPA findings on oil shales.

(EPA530-SW-85-033) 12/01/1985

Order Number: PB88-162 631 *Order Form: NTIS*

Report to the Congress of the United States on the Postclosure Liability Trust Fund Under Section 3001(A)(2)(II) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980

Concludes that the Postclosure Liability Trust Fund, designed to accept liabilities from hazardous waste facility owners and operators, will be unable to maintain a positive balance after 50 years. The fund covers only a minute portion of the future costs of land disposal. Presents results based on output of the fund's Simulation Model.

05/15/1985

Order Number: PB86-210 176/AS *Order Form: NTIS*

Report to the Senate Appropriations Committee: Regulation of Wood Preserving Wastes

Discusses RCRA-based framework for management and tracking of hazardous wastes, from generation through treatment and disposal, under Subtitle C. Several provisions of regulations addressing the protection of groundwater are noted, including corrective action, contingency plans, waste management standards, and closure requirements. Presents final rule provisions.

(EPA530-SW-91-058) 07/15/1991

Order Number: PB91-220 301 *Order Form: NTIS*

Report to the Senate Appropriations Committee: Regulation of Wood Preserving Wastes; Executive Summary

Evaluates the multi-statute approach to regulation of wood preserving wastes and compares it to RCRA-based approach.

07/15/1991

Order Number: EPA530-SW-91-058A *Order Form: OSW*

Reporting on Municipal Solid Waste: A Local Issue

Presents background information to assist print and broadcast media in understanding MSW issues. Examines the role of federal, state, and local governments in MSW management; options for solid waste management (e.g., source reduction, recycling, incineration, and landfilling); and regulations for solid waste landfills. Includes information sources, major laws affecting MSW management, MSW management state by state, and compounds and metals for groundwater detection monitoring.

09/15/1993

Order Number: EPA530-K-03-002 *Order Form: OSW*

Resource Conservation and Recovery Act Regulations Affecting Generators and Transporters (40 CFR 262 and 263); Explanation of Revisions in Reporting Burden Estimates

Discusses paperwork involved in documenting the generation, transportation, and disposal of hazardous wastes so liability for mishandling can be established. Amends previous submission, based on revised estimates, as companion regulations defining hazardous wastes to be covered by RCRA were not completed.

03/25/1980

Order Number: PB87-155 776/AS Order Form: NTIS

Resource Conservation and Recovery Act Regulations Affecting Generators and Transporters (40 CFR 262 and 263); Explanation of Revisions in Reporting Burden Estimates

Discusses paperwork involved in documenting the generation, transportation, and disposal of hazardous wastes so liability for mishandling can be established. Amends previous submission, based on revised estimates, as companion regulations defining hazardous wastes to be covered by RCRA were not completed.

03/25/1980

Order Number: PB87-155 776/AS Order Form: NTIS

The Resource Conservation Challenge: A Year of Progress

Presents the first progress report for the Resource Conservation Challenge, a major national effort to find flexible, yet protective, ways to conserve our natural resources. Describes current waste management and the RCC vision of the system needed. Highlights examples of successes in the six key RCC elements: product stewardship, priority chemical reduction, "greening" the government, beneficial use of materials, energy conservation, and environmentally friendly design.

02/15/2004

Order Number: 530-R-04-001 Order Form: OSW

Resource Conservation Challenge: The National Waste Minimization Partnership Program and Priority Chemicals (Update)

Fact sheet describing the National Partnership for Environmental Priorities (NPEP) [formerly the National Waste Minimization Partnership Program]. This voluntary program fosters partnerships between the EPA and waste generators that focus on reducing 30 priority chemicals in waste.

August 15, 2003

Order Number: EPA530-F-03-041 Order Form: OSW

The Resource Conservation Challenge: What Can You Save Today? ...An Update

Provides an update to EPA's Resource Conservation Challenge (RCC), a major national effort to find flexible yet more protective ways to conserve our valuable resources through waste reduction and energy recovery activities that will improve public health and the environment.

06/15/2003

Order Number: 530-F-03-015 Order Form: OSW

Resource Management: Innovative Solid Waste Contracting Methods

Developed by EPA's WasteWise Program, this manual explains the demonstrated additional cost savings and improved waste reduction through an innovative contracting strategy coined "resource management" (RM). Guides WasteWise partners and other organizations through the process of establishing a baseline for current waste streams, issuing a request for proposals (RFP), and designing a comprehensive waste management contract that utilizes RM. Appendices provide useful examples, such as a Request for Proposal template and compensation options.

05/15/2003

Order Number: EPA530-R-03-004 Order Form: OSW

Response to Comments Background Document for the Newly Listed Wastes and Hazardous Debris Proposed Rule; Capacity-Related Comments

Provides EPA's support and rationale for LDRs of newly listed wastes and hazardous debris. Summarizes and responds to comments. Divides comment responses into categories: available commercial combustion capacity; petroleum refining wastes; other newly listed wastes; mixed RCRA and radioactive waste; hazardous debris; and K061, K062, and F006.

(EPA530-R-97-039) 06/15/1992

Order Number: PB97-177 505 *Order Form: NTIS*

Response to Comments Background Document for the Second Third Land Disposal Restrictions Proposed Rule; Volume 1: Treatment Standards Related Comments

Presents EPA's responses to comments submitted on the proposed LDR for Second Third waste codes and general BDAT technologies. Topics covered include general BDAT technologies, F024, inorganic pigment wastes (K009-K010) organophosphorus wastes, phthalate wastes, and cyanide wastes (K011, K013, K014, K043, K028, K029, K095, K096, K027, K111-K116, U221, and U223).

(EPA530-SW-89-048D) 06/08/1989

Order Number: PB89-221 535 *Order Form: NTIS*

Response to Comments Background Document for the Second Third Land Disposal Restrictions Proposed Rule; Volume 2: Capacity Related Comments

Presents EPA's responses to 13 comments received on the adequacy of the national capacity to accommodate wastes requiring alternative management techniques. Issues include leachate and derived-from wastes, cyanide-bearing wastes, lab pack wastes, solids incineration capacity, and available treatment capacity.

(EPA530-SW-89-048E) 06/08/1989

Order Number: PB89-221 543 *Order Form: NTIS*

Response to Comments Background Document for the Second Third Land Disposal Restrictions Proposed Rule; Volume 3: Policy Related Comments

Presents comment summaries and EPA's responses to the proposed rule to prohibit land disposal of restricted hazardous wastes (54 FR 1056).

(EPA530-SW-89-048C) 06/08/1989

Order Number: PB89-221 436 *Order Form: NTIS*

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 1: BDAT Related Comments (Complete Set)

Presents comments submitted on proposed LDRs for waste code and general BDAT technologies as well as issues which relate to Third Third Wastes Treatment Standards. Three volumes in multi-part sections.

(EPA530-SW-90-061) 05/08/1990

Order Number: PB90-234 477 *Order Form: NTIS*

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 1-A-1: BDAT Related Comments; General BDAT Issues

Presents comments submitted on proposed LDRs for waste code and general BDAT technologies, as well as issues which relate to Third Third Wastes Treatment Standards. Volume includes request for data, handling of data, availability of technology and practical quantification limits.

(EPA530-SW-90-061A) 05/08/1990

Order Number: PB90-234 485 *Order Form: NTIS*

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 1-A-2: BDAT Related Comments; General BDAT Issues

Presents comments submitted on general BDAT technologies. Includes practical quantification limits, waste waters and nonwastewaters, grab and composite samples, quantification complications for P and U wastes, and soil and debris.

(EPA530-SW-90-061B) 05/08/1990

Order Number: PB90-234 493 **Order Form: NTIS**

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 1-A-3: BDAT Related Comments; General BDAT Issues

Addresses comments submitted on proposed LDRs for waste codes and general BDAT technologies and issues relating to Third Third Waste Treatment Standards.

Comments grouped according to major concerns.
(EPA530-SW-90-061C) 05/08/1990

Order Number: PB90-234 501 **Order Form: NTIS**

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 1-B: BDAT Related Comments; D001: Characteristic Ignitable Wastes

Contains comments on D001, including treatment issues concerning aqueous wastes in ignitable liquids and ignitable compressed gases, and deactivation treatment standards. Definitions of subcategories, and dilution are also included.

(EPA530-SW-90-061D) 05/08/1990

Order Number: PB90-234 519 **Order Form: NTIS**

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 1-C: BDAT Related Comments; D002: Characteristic Corrosive Wastes

Provides EPA's support and rationale for Third Third LDRs. Summarizes and responds to comments on D002. Discussion includes proposed pH requirements, proposed insoluble salt requirements, incineration, dilution, and miscellaneous issues.

(EPA530-SW-90-061E) 05/08/1990

Order Number: PB90-234 527 **Order Form: NTIS**

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 1-D: BDAT Related Comments; D003: Characteristic Reactive Wastes and P and U Wastes Containing Reactive Listing Constituents

Addresses comments submitted on proposed LDRs for waste codes and general BDAT technologies as well as issues relating to Third Third Waste Treatment Standards. Comments grouped according to major concerns.

(EPA530-SW-90-061F) 05/08/1990

Order Number: PB90-234 535 **Order Form: NTIS**

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 1-E: BDAT Related Comments; D004: Characteristic Wastes for Arsenic and K, P, and U Wastes Containing Arsenic; and D010: Characteristic Wastes for Selenium

Provides EPA's support and rationale for Third Third LDRs. Summarizes and responds to comments on D004 and D010. Covers aqueous wastes and vitrification, air emissions, scrubbers, hexafluoroarsenate, segregation of arsenic wastes, chemical fixation, and inconsistent standards.

(EPA530-SW-90-061G) 05/08/1990

Order Number: PB90-234 543 **Order Form: NTIS**

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 1-F: BDAT Related Comments; D005: Characteristic Wastes for Barium and P013; and D006: Characteristic Wastes for Cadmium

Addresses comments submitted on proposed LDRs for waste codes and general BDAT technologies and issues relating to Third Third Waste Treatment Standards. Comments grouped according to major concerns. (EPA530-SW-90-061H) 05/08/1990

Order Number: PB90-234 550 Order Form: NTIS

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 1-G: BDAT Related Comments; D007: Characteristic Wastes for Chromium

Addresses comments submitted on proposed LDRs for waste codes and general BDAT technologies and issues relating to Third Third Waste Treatment Standards. Comments grouped according to major concerns. (EPA530-SW-90-061I) 05/08/1990

Order Number: PB90-234 568 Order Form: NTIS

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 1-H: BDAT Related Comments; D008: Characteristic Wastes for Lead and P and U Wastes Containing Lead

Addresses comments submitted on proposed LDRs for waste codes and general BDAT technologies and issues relating to Third Third Waste Treatment Standards. Comments grouped according to major concerns. (EPA530-SW-90-061J) 05/08/1990

Order Number: PB90-234 576 Order Form: NTIS

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 1-I: BDAT Related Comments; D009: Characteristic Wastes for Mercury and P and U Wastes Containing Mercury; K045, K046, and K047: Wastes From the Manufacturing and Processing of Explosives; D011: Characteristic Wastes for Silver; P119, P120: Vanadium Containing Wastes; and P and U Wastes Containing Thallium

Addresses comments submitted on proposed LDRs for waste codes and general BDAT technologies and issues relating to Third Third waste treatment standards. Comments grouped according to major concerns. (EPA530-SW-90-061K) 05/08/1990

Order Number: PB90-234 584 Order Form: NTIS

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 1-J: BDAT Related Comments; Mixed Radioactive Hazardous Wastes; Polynuclear Aromatic U Wastes; Halogenated Aliphatic U Wastes; Non-Halogenated Aromatic U Wastes; F002-F005: Solvents; F006: Electroplating Wastewater Treatment Sludges; and F019: Aluminum Conversion Coating Treatment Sludges

Incorporates the final response to BDAT-related comments pertinent to the following waste codes: F002 to F005 (solvents), F006 (electroplating wastewater treatment sludges), and F019 (aluminum conversion coating treatment sludges), mixed radioactive hazardous wastes, polynuclear aromatic U wastes, halogenated aliphatic U wastes, and non-halogenated aromatic U wastes. (EPA530-SW-90-061L) 05/08/1990

Order Number: PB90-234 592 Order Form: NTIS

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 1-K: BDAT Related Comments; F025: Wastes From the Production of Chlorinated Aliphatics; K002-K008: Inorganic Pigments; K011, K013, K014: Acrylonitriles; K015: Still Bottoms from Benzyl Chloride; K046: Wastewater Treatment Sludges From Manufacturing, Formulating, and Loading of Lead-Based Initiating Compounds; K061: Electric Arc Furnace Dust; and K069: Emission Control Dust/Sludge from Secondary Lead Smelting

Incorporates the final response to BDAT comments pertinent to the following waste codes: F025 (wastes from production of chlorinated aliphatics), K002-K008 (inorganic pigments), K011/K013/K014 (acrylonitrile), K015 (still bottoms from benzyl chloride), K021 (spent antimony catalyst), K046 (wastewater treatment sludges from manufacturing, etc., of lead-based initiating compounds), K060 (ammonia still lime sludge), K061 (electric arc furnace dust) and K069 (emission control dust/sludge from secondary lead smelting).

(EPA530-SW-90-061M) 05/08/1990

Order Number: PB90-234 600 Order Form: NTIS

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 1-L: BDAT Related Comments; K071 and K106: Mercury Cell Process Wastes; K086: Residues From Ink Production Wastes Containing Cyanide

Incorporates the final response to BDAT comments pertinent to the following codes: K071, K106 (mercury cell process wastes), and K086 (residues from ink production wastes containing cyanide).

(EPA530-SW-90-061N) 05/08/1990

Order Number: PB90-234 618 Order Form: NTIS

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 1-M: BDAT Related Comments; K017: Wastes From the Production of Epichlorohydrin; K028, K029, K095, and K096: Production of 1,1,1-Trichloroethane Wastewaters Containing BDAT Constituents; K022: Wastes From the Production of Phenol/Acetone; K025: Distillation Bottoms From the Production of Nitrobenzene; K035: Wastewater Treatment Sludges From the Production of Creosote; K026: Stripping Still Tails from the Production of Methyl Ethyl Pyridine; K083: Distillation Bottoms from the Production of Aniline Oxygenated Hydrocarbons and Heterocyclic U and P Wastes; F024: Production of Chlorinated Aliphatic Hydrocarbons

Incorporates final response to BDAT comments pertinent to following codes: K017 (wastes from production of epichlorohydrin), K028 to K029 and K095 to K096 (production of 1,1,1-trichloroethane wastewaters), K022 (wastes from phenol/acetone), K025 (distillation bottoms from production of nitrobenzene), K035 (wastewater treatment sludges from production of creosote), K026 (stripping still tails-production of methyl ethyl pyridine), K083 (distillation bottoms-production of aniline oxygenated hydrocarbons and heterocyclic U and P wastes), and F024 (production of chlorinated aliphatic hydrocarbons).

(EPA530-SW-90-061O) 05/08/1990

Order Number: PB90-234 626 Order Form: NTIS

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 1-N: BDAT Related Comments; Halogenated Organic, Pharmaceutical, Brominated Organic, Organo-Sulfur Compounds, and Organo-Nitrogen Compound Wastes; and Halogenated Pesticide and Chlorobenzene, Halogenated Phenolic, and Phenolic Wastes

Provides EPA's support and rationale for Third Third LDRs. Summarizes and responds to comments. Discusses standards for drinking water levels, operational requirements on waste incinerators, thermal treatment, analytical issues, and more.
(EPA530-SW-90-061P) 05/08/1990

Order Number: PB90-234 634 Order Form: NTIS

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 1-O: BDAT Related Comments; K048-K052: Petroleum Refining Industry Wastes; K036: Organophosphorus Wastes (Nonwastewaters); K037: Wastewater Treatment Sludges From the Production of Disulfoton

Provides EPA's support and rationale for Third Third LDRs. Summarizes and responds to comments. Sub-issues include solvent extraction, incineration, requests for Agency evaluation, and support for regulatory framework.
(EPA530-SW-90-061Q) 05/08/1990

Order Number: PB90-234 642 Order Form: NTIS

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 1-P: BDAT Related Comments; Leachates

Provides Agency support and rationale for Third Third LDRs. Summarizes and responds to comments. Issues include options for multisource leachate, industry standards and permitting, and analysis and monitoring.
(EPA530-SW-90-061R) 05/08/1990

Order Number: PB90-234 659 Order Form: NTIS

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 1-Q: BDAT Related Comments; Gases

Provides EPA's support and rationale for Third Third LDRs. Summarizes and responds to comments. Includes sub-issues such as numerical standards for gas wastes in non-gaseous forms, thermal and caustic solution destruction, and treatment methods of nonwastewaters.
(EPA530-SW-90-061S) 05/08/1990

Order Number: PB90-234 667 Order Form: NTIS

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 2: Capacity Related Comments (Complete Set)

Provides EPA's support and rationale for Third Third LDRs. Summarizes and responds to comments. Consists of three volumes in multi-part sections.
(EPA530-SW-90-063) 05/08/1990

Order Number: PB90-234 725 Order Form: NTIS

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 2-1: Capacity Related Comments

Presents EPA's responses to comments on the background document for Third Third LDRs relating to capacity. Topics covered include combustion, D001 ignitable characteristic wastes, D002 corrosive characteristic wastes, D003 reactive characteristic wastes, arsenic and selenium wastes, lead and K061 wastes.
(EPA530-SW-90-063A) 05/08/1990

Order Number: PB90-234 733 Order Form: NTIS

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 2-2: Capacity Related Comments

Presents EPA's responses to comments on the background document for Third Third LDRs related to capacity. Topics covered include mercury wastes; F, K, U, and P wastes; K048 to K052 wastes; deep well injected wastes; and other metals.

(EPA530-SW-90-063B) 05/08/1990

Order Number: PB90-234 741 **Order Form: NTIS**

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 2-3: Capacity Related Comments

Responds to commenters on background documents for Third Third LDRs relating to capacity. Chapter 13 discusses multisource leachate, and Chapter 14 covers mixed RCRA and radioactive wastes. Chapter 15 reports on lab packs, Chapter 16 covers soil and debris, and Chapter 17 includes miscellaneous capacity comments.

(EPA530-SW-90-063C) 05/08/1990

Order Number: PB90-234 758 **Order Form: NTIS**

Response to Comments Background Document for the Third Third Land Disposal Restrictions Proposed Rule; Volume 3: Policy Related Comments

Presents summary of and responses to comments received by EPA regarding the proposed rule to prohibit land disposal of Third Third wastes.

(EPA530-SW-90-064) 05/08/1990

Order Number: PB90-234 766 **Order Form: NTIS**

Response to Comments Document for Land Disposal Restrictions Phase IV: Treatment Standards for Wood Preserving Wastes, Paperwork Reduction and Streamlining, Exemptions From RCRA for Certain Processed Materials, and Miscellaneous Hazardous Waste Provisions; Final Rule

Contains responses to public comments on issues addressed in the final rulemaking establishing treatment standards for wood preserving wastes. Divides comments into categories: maximum acceptable concentrations for constituents in wastes entering surface impoundments; changes to 40 CFR Part 268 regulatory language; the three proposed options for addressing the risks due to cross-media releases in Subtitle D surface impoundments that manage decharacterized wastes; additions of universal treatment standards constituents to the list of F039 regulated constituents; testing of underlying hazardous constituent levels in wastes at the point of generation; polymerization treatment for certain wastes; exclusion of processed scrap metal and containerized shredded circuit boards that are being recycled; alternative combustion standards for wood preserving wastes; similarity between F032 and F024; regulation of arsenic and chromium in wood preserving wastes; regulation of dioxins and furans in wood preserving wastes; calculation of treatment standards for regulating various constituents in wood pre-serving wastes; waste-water treatment standard; wood preserving waste contaminated media and remediation; dioxin and furan stigma and capacity issues; and comments on the regulatory impact analysis.

(EPA530-R-97-027) 04/15/1997

Order Number: PB97-176 929 **Order Form: NTIS**

Response to Comments Document: Land Disposal Restrictions Phase IV: Final Rule Promulgating Treatment Standards for Metal Wastes and Mineral Processing Wastes; Mineral Processing Secondary Materials and Bevill Exclusion Issues; Treatment Standards for Hazardous Soils, and Exclusion of Recycled Wood Preserving Wastes (Complete Set)

Contains responses to public comments received on the final rulemaking establishing treatment standards for metal wastes, mineral processing wastes, and contaminated soils. Also responds to comments received on the proposal to consider certain secondary materials from mineral processing waste hazardous.
(EPA530-R-99-020) 04/30/1998

Order Number: PB99-155 822 Order Form: NTIS

Response to Comments Document: Land Disposal Restrictions—Phase IV: Final Rule Promulgating Treatment Standards for Metal Wastes and Mineral Processing Wastes; Mineral Processing Secondary Materials and Bevill Exclusion Issues; Treatment Standards for Hazardous Soils, and Exclusion of Recycled Wood Preserving Wastes; Volume 1: Comments Related to Phase III Proposed Rule, March 2, 1997

Responds to public comments relevant to foundry sand issues.
(EPA530-R-99-020a) 04/30/1998

Order Number: PB99-155 822 Order Form: NTIS

Response to Comments Document: Land Disposal Restrictions—Phase IV: Final Rule Promulgating Treatment Standards for Metal Wastes and Mineral Processing Wastes; Mineral Processing Secondary Materials and Bevill Exclusion Issues; Treatment Standards for Hazardous Soils, and Exclusion of Recycled Wood Preserving Wastes; Volume 2: Comments Related to Phase IV Proposed Rule, August 22, 1995

Responds to public comments relating to arsenic, beryllium, cadmium, chromium, lead, nickel, selenium, silver, vanadium, zinc, and general metals treatment standards; state authorization; and foundry sand, slag, and toxicity characteristic issues. Addresses LDR and the hazardous waste identification rule, underlying hazardous waste constituents, and miscellaneous topics. Examines the wood preserving wastewater exclusion.
(EPA530-R-99-020b) 04/30/1998

Order Number: PB99-155 830 Order Form: NTIS

Response to Comments Document: Land Disposal Restrictions—Phase IV: Final Rule Promulgating Treatment Standards for Metal Wastes and Mineral Processing Wastes; Mineral Processing Secondary Materials and Bevill Exclusion Issues; Treatment Standards for Hazardous Soils, and Exclusion of Recycled Wood Preserving Wastes; Volume 3: Comments Related to First Supplemental Proposed Rule, January 25, 1996

Responds to public comments related to state authorization; beryllium, chromium, vanadium, zinc, and general metals treatment standards; and manufactured gas plant issues. Addresses LDR and the hazardous waste identification rule.
(EPA530-R-99-020c) 04/30/1998

Order Number: PB99-155 848 Order Form: NTIS

Response to Comments Document: Land Disposal Restrictions—Phase IV: Final Rule Promulgating Treatment Standards for Metal Wastes and Mineral Processing Wastes; Mineral Processing Secondary Materials and Bevill Exclusion Issues; Treatment Standards for Hazardous Soils, and Exclusion of Recycled Wood Preserving Wastes; Volume 4: Comments Related to First Notice of Data Availability, May 10, 1996

Responds to public comments related to lead and silver treatment standards. Addresses the wood preserving wastewater exclusion and miscellaneous issues.
(EPA530-R-99-020d) 04/30/1998

Order Number: PB99-155 855 *Order Form: NTIS*

Response to Comments Document: Land Disposal Restrictions—Phase IV: Final Rule Promulgating Treatment Standards for Metal Wastes and Mineral Processing Wastes; Mineral Processing Secondary Materials and Bevill Exclusion Issues; Treatment Standards for Hazardous Soils, and Exclusion of Recycled Wood Preserving Wastes; Volume 5: Comments Related to Second Notice of Data Availability, March 5, 1997

Responds to public comments addressing the addition of iron filings to foundry sand.
(EPA530-R-99-020e) 04/30/1998

Order Number: PB99-155 863 *Order Form: NTIS*

Response to Comments Document: Land Disposal Restrictions—Phase IV: Final Rule Promulgating Treatment Standards for Metal Wastes and Mineral Processing Wastes; Mineral Processing Secondary Materials and Bevill Exclusion Issues; Treatment Standards for Hazardous Soils, and Exclusion of Recycled Wood Preserving Wastes; Volume 6: Comments Related to Second Supplemental Proposed Rule, May 12, 1997

Responds to public comments related to antimony, beryllium, cadmium, chromium, lead, mercury, nickel, selenium, silver, vanadium, zinc, and general metals treatment standards. Addresses comments received relating to manufactured gas plant, thallium, contaminated soil, and LDR and hazardous waste identification rule issues. Considers underlying hazardous constituents, underground injection, and the wood preserving wastewater exclusion.
(EPA530-R-99-020f) 04/30/1998

Order Number: PB99-155 871 *Order Form: NTIS*

Response to Comments Document: Land Disposal Restrictions—Phase IV: Final Rule Promulgating Treatment Standards for Metal Wastes and Mineral Processing Wastes; Mineral Processing Secondary Materials and Bevill Exclusion Issues; Treatment Standards for Hazardous Soils, and Exclusion of Recycled Wood Preserving Wastes; Volume 7: Comments Related to Treatment Standards for Contaminated Soils

Responds to public comments related to contaminated soil issues. Addresses minimum treatment standards for contaminated media and hazardous soil.
(EPA530-R-99-020g) 04/30/1998

Order Number: PB99-155 889 *Order Form: NTIS*

Response to Comments Document: Land Disposal Restrictions Phase IV: Final Rule Promulgating Treatment Standards for Metal Wastes and Mineral Processing Wastes; Mineral Processing Secondary Materials and Bevill Exclusion Issues; Treatment Standards for Hazardous Soils, and Exclusion of Recycled Wood Preserving Wastes; Volume 8: Comments Related to Regulatory Impact Analysis for Newly Identified Mineral Processing Waste Issues Raised in First Supplemental Proposed Rule, January 25, 1996

Responds to public comments related to the adequacy of the regulatory impact analysis for newly identified mineral processing waste issues in the first supplemental proposed rule. Addresses comments about the proposed regulatory requirements and predicted responses. Answers comments received on the cost analysis, specific mining sectors and facilities, and risk assessment. (EPA530-R-99-020h) 04/30/1998

Order Number: PB99-155 897 *Order Form: NTIS*

Response to Comments Document: Land Disposal Restrictions Phase IV: Final Rule Promulgating Treatment Standards for Metal Wastes and Mineral Processing Wastes; Mineral Processing Secondary Materials and Bevill Exclusion Issues; Treatment Standards for Hazardous Soils, and Exclusion of Recycled Wood Preserving Wastes; Volume 9: Comments Related to Regulatory Impact Analysis for Newly Identified Mineral Processing Waste Issues Raised in Second Supplemental Proposed Rule, May 12, 1997

Addresses public comments concerning cost methodology, risk methodology, costs of alternative feedstock proposal, economic impacts, benefits and risk results, and the regulatory flexibility analysis. (EPA530-R-99-020i) 04/30/1998

Order Number: PB99-155 905 *Order Form: NTIS*

Response to Comments Document: Land Disposal Restrictions—Phase IV: Final Rule Promulgating Treatment Standards for Metal Wastes and Mineral Processing Wastes; Mineral Processing Secondary Materials and Bevill Exclusion Issues; Treatment Standards for Hazardous Soils, and Exclusion of Recycled Wood Preserving Wastes; Volume 10: Comments Related to Regulatory Impact Analysis for TC-Metal Hazardous Waste Issues Raised in Original Proposed Rule, August 22, 1995, and in Second Supplemental Proposed Rule, May 12, 1997

Reviews public comments relevant to the toxicity characteristic metals requirements and provides EPA's rationale for reaching its conclusions. (EPA530-R-99-020j) 04/30/1998

Order Number: PB99-155 913 *Order Form: NTIS*

Response to Comments Document: Land Disposal Restrictions—Phase IV: Final Rule Promulgating Treatment Standards for Metal Wastes and Mineral Processing Wastes; Mineral Processing Secondary Materials and Bevill Exclusion Issues; Treatment Standards for Hazardous Soils, and Exclusion of Recycled Wood Preserving Wastes; Volume 11: Comments Related to Newly Identified Mineral Processing Waste Treatment Standards, Grab Versus Composite Sampling, Radioactive Mixed TC-Metal Wastes, and Sulfide Waste Issues

Responds to public comments relevant to appropriate sampling methods, treatment standards for newly identified mineral processing wastes, radioactive waste mixed with toxicity characteristic metal wastes, sulfide waste issues. (EPA530-R-99-020k) 04/30/1998

Order Number: PB99-155 921 *Order Form: NTIS*

Response to Comments Document: Land Disposal Restrictions—Phase IV: Final Rule Promulgating Treatment Standards for Metal Wastes and Mineral Processing Wastes; Mineral Processing Secondary Materials and Bevill Exclusion Issues; Treatment Standards for Hazardous Soils, and Exclusion of Recycled Wood Preserving Wastes; Volume 12: Comments Related to Capacity Analysis for Newly Identified Toxicity Characteristic Metal Wastes and Mineral Processing Wastes

Summarizes and responds to public comments relevant to surface-disposed required and available treatment capacity. Addresses general comments on treatment capacity, specific comments on available and required capacity for toxicity characteristic metal wastes, and specific comments on available and required treatment capacity for mineral processing wastes.

(EPA530-R-99-020l)

04/30/1998

Order Number: PB99-155 939

Order Form: NTIS

Response to Comments Document: Land Disposal Restrictions—Phase IV: Final Rule Promulgating Treatment Standards for Metal Wastes and Mineral Processing Wastes; Mineral Processing Secondary Materials and Bevill Exclusion Issues; Treatment Standards for Hazardous Soils, and Exclusion of Recycled Wood Preserving Wastes; Volume 13: Comments Related to First Supplemental Proposed Rule, January 25, 1996: Clarification of Bevill Exclusion for Mining Wastes, Changes to the Definition of Solid Waste for Mineral Processing Wastes, Treatment Standards for Characteristic Mineral Processing Wastes, and Associated Issues

Responds to public comments relevant to mineral processing and the definition of solid waste. Addresses conditions relating to legitimate recycling, concentrations of recoverable mineral and acid alternative tests, constraints on non-recoverable hazardous constituents, speculative accumulation, one-time notifications, groundwater protection standards, unit closure, and basic unit integrity. Examines general comments on alternative approaches and Bevill issues.

(EPA530-R-99-020m)

04/30/1998

Order Number: PB99-155 947

Order Form: NTIS

Response to Comments Document: Land Disposal Restrictions—Phase IV: Final Rule Promulgating Treatment Standards for Metal Wastes and Mineral Processing Wastes; Mineral Processing Secondary Materials and Bevill Exclusion Issues; Treatment Standards for Hazardous Soils, and Exclusion of Recycled Wood Preserving Wastes; Volume 14: Comments Related to Second Supplemental Proposed Rule, May 12, 1997: Treatment Standards for Metal Wastes and Mineral Processing Wastes, Mineral Processing and Bevill Exclusion Issues, and the Use of Hazardous Waste as Fill

Responds to public comments relevant to land storage of secondary materials, including criteria for high volumes of Bevill-exempt mining and mineral processing wastes, containment units (tanks, containers, buildings, and approved pads), and class of materials outside of RCRA jurisdiction. Examines restriction on using non-Bevill materials as alternative feedstocks and high-risk mining wastes excluded by the Bevill Amendment. Addresses comments on damage cases and environmental releases, characterization of mineral processing wastes, cost of remediation, risk posed by Bevill mining wastes, and other comments on materials supporting the proposed rule. Discusses comments on the mineral processing regulatory impact analysis and proposed criteria for clarifying Bevill status waste.

(EPA530-R-99-020n) 04/30/1998

Order Number: PB99-155 954 Order Form: NTIS

Response to Comments Received on the Newly Listed Wastes and Hazardous Soils Proposed Rule to Support 40 CFR 268 Land Disposal Restrictions; Capacity-Related Comments

Summarizes and responds to comments on the national capacity to accommodate the newly listed wastes and hazardous soils under the LDR program. Divides comments into categories: available commercial treatment capacity, toxicity characteristic wastes, other newly listed wastes, mixed radioactive wastes, hazardous soil contaminated with newly listed identified and hazardous wastes, and hazardous debris contaminated with newly listed identified and hazardous wastes.

(EPA530-R-97-042) 08/15/1994

Order Number: PB97-177 539 Order Form: NTIS

Restrictions on the Placement of Nonhazardous Liquids in Hazardous Waste Landfills; Statutory Interpretative Guidance

Explains Section 3004(c)(3) of HSWA, which restricts the placement of nonhazardous liquids in hazardous waste (Subtitle C) facilities. Explains the scope of the nonhazardous liquids provision and the overall demonstration process.

(EPA530-SW-86-013) 04/15/1986

Order Number: PB86-215 043/AS Order Form: NTIS

Reusable News, (Spring 2003)

Features the Resource Conservation Challenge, a "challenge" to large and small businesses, manufacturers, consumers, communities, youth—all Americans—to do more to reduce waste, cut greenhouse gas emissions, recover energy, and protect valuable natural resources. Also contains articles on new studies that measure the extent and benefits of recycling, green buildings, and summarizes a satellite forum featuring "Waste Prevention Trend Setters."

04/15/2003

Order Number: EPA530-N-03-001 Order Form: OSW

Reuse + Recycling = Waste Reduction: A Guide for Schools & Groups

Booklet designed for schools and community groups to encourage waste reduction programs. Lists benefits of waste prevention. Addresses waste reduction programs that work. Outlines steps for starting a waste reduction program. Includes case studies and resources. Included in *Your Life, Your World, Your Choices: Everything You Do Can Make a Difference Kit*.

05/15/2003

**Order Number: EPA530-K-03-001
Order Number: EPA530-K-03-001S Order Form: OSW**

Reutilización + Reciclaje = Reducción de Desechos: Una Guía para Escuelas y Grupos (Spanish Translation of Reuse + Recycling = Waste Reduction: A Guide for Schools & Groups)

El librete diseñó para que las escuelas y los grupos de la comunidad animen los programas de la reducción de los desechos. Discute los beneficios de la prevención de desechos. Enumera métodos para reducir basuras. Contiene pasos para empezar un programa de reducción de desechos. Incluye ejemplos y recursos. Incluido en *Su Vida, Su Mundo, Sus Opiniones: Todo Lo Que Haga Puede Hacer una Diferencia Kit*.

15/03/2004

Número de pedido: EPA530-K-03-001S
Formulario de pedido: OSW

Revised Implementation Strategy for City of Chicago v. EDF Municipal Waste Combustion Ash Supreme Court Decision; Memorandum

Revises implementation strategy released May 27, 1994. Discusses the May 2, 1994, U.S. Supreme Court opinion, which states that Section 3001(I) of RCRA does not exempt ash generated at resource recovery facilities (i.e., waste-to-energy facilities) burning household wastes and nonhazardous commercial wastes from the hazardous waste requirements of Subtitle C of RCRA. Examines EPA's strategy for helping waste-to-energy facilities comply with the RCRA Subtitle C requirements.

03/22/1995

Order Number: EPA530-F-95-013 **Order Form:** OSW

Risk Burn Guidance for Hazardous Waste Combustion Facilities

Contains EPA's recommendations regarding stack emissions tests which may be performed at hazardous waste combustion facilities for the purpose of supporting multi-pathway, site-specific risk assessments, where such a risk assessment has been determined to be necessary by the permit authority. Addresses risk assessment stack emission data needs, risk burns, dioxin and furans emissions, other organic emissions, metal emissions, hydrogen chloride/chlorine emissions and particle size distribution, data analysis, and risk-based permit conditions. Appendices contain risk burn conditions and permit limits for example facilities and sampling and analysis. Includes references and a list of acronyms.

07/15/2001

Order Number: EPA530-R-01-001 **Order Form:** OSW

Risky Business? An Overview of Risk Assessment and RCRA

Defines risk. Discusses how risk assessment is used by the EPA to analyze the potential for adverse human health or ecological effects due to the presence of toxic chemicals in the environment. Addresses how risks are assessed. Describes how risk management is distinguished from risk assessment.

12/15/2000

Order Number: EPA530-F-00-032 **Order Form:** OSW

***Rules Changed To Help Accelerate Lead-based Paint Removal**

Announces rule to reduce costs and remove obstacles associated with the disposal of residential lead-based paint. Allows residential lead-based paint waste that is exempted from hazardous waste management requirements as household waste to be disposed of in construction and demolition landfills. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/muncpl/landfill/lbp_fs.pdf>.

6/15/2003

Order Number: EPA530-F-03-007 **Order Form:** OSW

Rules for Hazardous Waste Tank Systems

Provides an overview of EPA's revised hazardous waste tank system regulations, promulgated on July 14, 1986. Geared primarily to owners and operators of hazardous waste tank systems, and to federal, state and local government officials who are responsible for regulating systems. Summarizes important program elements and answers frequently asked questions.

01/15/1988

Order Number: EPA530-SW-88-004 **Order Form:** OSW

Safer Disposal for Solid Waste: The Federal Regulations for Landfills

Summarizes the federal regulations covering landfill location, operation, and design, groundwater monitoring and corrective action, closure and postclosure care, and financial assurance. Gives owners and operators and local officials dates for compliance and additional sources of information.

03/15/1993

Order Number: EPA530-SW-91-092 **Order Form:** OSW

Science Fair Fun: Designing Environmental Science Projects

Provides students in grades 6-8 with ideas and resources for developing environmental science fair projects, focusing specifically on reducing, reusing, and recycling waste materials. Defines the EPA as well as provides sample projects and experiment tips. Also available in Spanish. Included in *Your Life, Your World, Your Choices: Everything You Do Can Make a Difference Kit*.

12/15/2000

Order Number: EPA530-K-00-008
Order Number: EPA530-K-00-008S **Order Form:** OSW

Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities: Peer Draft Review (Complete Set)

Provides guidance to EPA regions and state governments on how to best implement RCRA and other EPA regulations to facilitate permitting decisions for hazardous waste combustion facilities. Addresses facility characterization, including compiling basic facility data, identifying emission sources and compounds of potential concern (COPC), estimating COPC concentrations for non-detects, and concentrations detected in blanks. Discusses air dispersion and deposition modeling, problem formulation, analysis (exposure assessment and assessment of toxicity), and risk characterization. Includes references and appendix.

(EPA530-D-99-001)

11/15/1999

Order Number: PB2000-101 329 **Order Form:** NTIS

Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities: Peer Draft Review; Volume One

Provides guidance to EPA regions and state governments on how to best implement RCRA and other EPA regulations to facilitate permitting decisions for hazardous waste combustion facilities. Addresses facility characterization, including compiling basic facility data, identifying emission sources and compounds of potential concern (COPC), estimating COPC concentrations for non-detects, and concentrations detected in blanks. Discusses air dispersion and deposition modeling, problem formulation, analysis (exposure assessment and assessment of toxicity), and risk characterization. Includes references, tables and figures.

(EPA530-D-99-001a)

11/15/1999

Order Number: PB2000-101 330 **Order Form:** NTIS

Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities: Peer Draft Review; Volume Two: Appendix A

Provides guidance to EPA regions and state governments on how to best implement RCRA and other EPA regulations to facilitate permitting decisions for hazardous waste combustion facilities. Contains chemical specific data. Provides information on chemicals for consideration as compounds of potential concern and compound specific parameter values. Includes references.

(EPA530-D-99-001b) 11/15/1999

Order Number: PB2000-101 331 Order Form: NTIS

Second Report to Congress: Resource Recovery and Source Reduction

Reviews EPA's programs related to the conservation of energy and material resources including environmental and economic impacts. Examines effects of several existing federal policies and programs on the use of virgin and recycled material. Studies automobiles, packaging, beverage containers, and rubber tires.

(EPA SW-353) 01/15/1974

Order Number: PB253 406/3 Order Form: NTIS

Sensitive Environments and the Siting of Hazardous Waste Management Facilities

Discusses sensitive types of environments that pose special challenges to the siting, expansion, and operation of RCRA hazardous waste management facilities. Defines floodplains, wetlands, ground water, earthquake zones, karst soils, unstable terrain, unfavorable weather locations, and incompatible land use. Addresses problems and recommendations for each environmental type. Also available in Spanish.

05/15/1997

Order Number: EPA530-K-97-003

Order Number: EPA530-K-97-003S Order Form: OSW

Service-Learning: Education Beyond the Classroom

Defines service-learning as an educational experience that combines academic knowledge with service and personal reflection. Encourages environmental service in solid and hazardous waste areas; links these experiences to positive behavioral changes, such as recycling and waste prevention; and demonstrates how the skills that students acquire can be a stepping stone to an environmental career. Contains profiles of service-learning projects organized by grade level into two categories: school-based and community programs. Includes contact for each project. Lists national organizations that are involved in coordinating or funding service-learning projects. **Also available in Spanish.** Included in the *Your Life, Your World, Your Choices: Everything You Do Can Make a Difference Kit*.

08/15/2002

Order Number: EPA530-K-02-001

Order Number: EPA530-K-02-001S Order Form: OSW

Setting Up a Home Office: Making Environmental Choices

Provides simple ideas for maintaining an environmentally friendly home office. Covers office equipment, paper, writing tools, and furniture. Lists resources. Included in *The Power of Change Protecting the Environment for the Next Generation Kit*.

04/15/2004

Order Number: EPA530-F-04-007

Si lo Tira, Se lo Toma (Spanish Translation of You Dump It, You Drink It)

El cartel esta diseñado para las estaciones de gasolina. Anima a clientes que cambian su propio aceite del motor para disponer de él correctamente. En inglés en dorso.

15/02/2003

Número de pedido:

EPA530-F-02-027S

Formulario de pedido:

OSW

Si lo Tira, Se lo Toma: Recicle el Aceite Usado de Motor (Spanish Translation of *You Dump It, You Drink It: Recycle Used Motor Oil*)

Folleto para los consumidores que cambian su propio aceite del motor. Describe cómo disponer correctamente del aceite usado. En inglés en dorso.

15/02/2003

Número de pedido: EPA530-F-02-027S
Formulario de pedido: OSW

¡Sigue el Rastro! (Spanish Translation of *Follow That Trail!*)

Este libro de actividad para grados K-3 es parte de el Club de los Protectores del Planeta. Los estudiantes siguen el rastro a través de un laberinto y otras actividades divertidas para averiguar donde las botellas y latas van después de ser recicladas y otros factores acerca de la conservación de recursos.

15/09/1998

Número de pedido: EPA530-K-98-001S
Formulario de pedido: OSW

Sites for Our Solid Waste: A Guidebook for Effective Public Involvement

Provides information for the public, public officials, and industry professionals to find waste sites that are both technically sound and socially acceptable. Encourages public involvement.

04/15/1990

Order Number: EPA530-SW-90-019 **Order Form:** OSW

Site-Specific Flexibility Requests for Municipal Solid Waste Landfills in Indian Country; Draft Guidance

Describes a process by which MSWLF owners and operators in Indian Country may apply for the same flexibility that is available to landfill owners and operators in states with EPA-approved MSWLF permitting programs. Assists EPA regional offices in reviewing and processing such requests. Provides a map of EPA regions, identification of EPA regional contacts, and suggested means of demonstrating that proposed alternative approaches satisfy 40 CFR Part 258 Criteria. Includes sample application materials for tribal government MSWLF owners and operators, sample application materials for MSWLF owners and operators other than tribal governments, sample response materials for tribes, and a list of public involvement process resources.

08/14/1997

Order Number: EPA530-R-97-016 **Order Form:** OSW

Siting Our Solid Waste: Making Public Involvement Work (Brochure)

Encourages ordering the matching guidebook, discusses locating waste sites. Includes table of contents for the guidebook.

04/15/1990

Order Number: EPA530-SW-90-020 **Order Form:** OSW

Social Aspects of Siting Hazardous Waste Facilities

Developed for industries and for government agencies that interact with communities when hazardous waste facilities are sited. Offers examples of quality of life concerns raised by environmental justice communities when facilities are sited. Provides examples of experiences and creative mechanisms that have been developed in order to work effectively with communities. Encourages businesses and government agencies to address community concerns early, collaboratively, and compassionately.

Also available in Spanish.

04/15/2000

Order Number: EPA530-K-00-005
Order Number: EPA530-K-00-005S **Order Form:** OSW

Soil Properties, Classification, and Hydraulic Conductivity Testing

Compiles laboratory and field testing methods for the measurement of hydraulic conductivity of soils, including background information on the relevant soil properties and classification systems. Assists in planning and construction of hazardous waste disposal facilities while supporting EPA guides to review permit applications under Subtitle C of RCRA.

(EPA SW-925)

03/15/1984

Order Number: PB87-155 784/AS

Order Form: NTIS

Solid Waste Dilemma: An Agenda for Action; Background Document

Describes MSW and presents a strategy to improve management of wastes. Gives analysis behind recommended actions in a summary fashion. Compiles options of potential research, development, and demonstration activities to provide data for solutions.

(EPA530-SW-88-054A)

08/15/1988

Order Number: PB88-251 137

Order Form: NTIS

Solid Waste Dilemma: An Agenda for Action; Background Document; Appendices A-C

Supplements the background document by summarizing various components of the MSW stream. Includes quantity and characteristic data, conclusions from the application of various waste management practices, identification of notable issues or problems, and other data.

(EPA530-SW-88-054B)

08/15/1988

Order Number: PB88-251 145

Order Form: NTIS

Solid Waste Dilemma: An Agenda for Action (Final Report of the Municipal Waste Task Force)

Describes the MSW situation and presents a strategy to improve management of wastes. Offers concrete solutions.

(EPA530-SW-89-019)

02/15/1989

Order Number: PB89-187 637

Order Form: NTIS

The Solid Waste Disposal Act as Amended by the Hazardous and Solid Waste Amendments (The Resource Conservation and Recovery Act)

Includes Senate committee print (99-215) of HSWA of 1984 (Public Law 98-616), the Safe Drinking Water Act Amendments of 1986 (Public Law 99-339), and Superfund Amendments and Reauthorization Act of 1987 (Public Law 99-499).

01/01/1987

Order Number: EPA530-SW-85-022

Order Form: OSW

Solid Waste Disposal Facility Criteria: Technical Manual

Addresses the general applicability of the 40 CFR Part 258 criteria, location restrictions, operating requirements, design standards, groundwater monitoring and corrective action, and closure and postclosure care for landfills. Includes the regulatory language, a general explanation of the regulations and who must comply with them, key technical issues that might need to be addressed to ensure compliance with a particular requirement, and information sources. Written for MSW landfill owners and operators.

(EPA530-R-93-017)

11/15/1993

Order Number: PB94-100 450

Order Form: NTIS

Solid Waste Management: A Local Challenge with Global Impacts

Kit folder addressing the link between solid waste management and climate change. Introduces and defines the main activities classified under Integrated Solid Waste Management: waste prevention, recycling, composting, combustion, and landfilling. Fact sheets include: *What is Integrated Solid Waste Management?*, *How to Establish Recycling and Composting Programs*, *What Are the Options for Waste Disposal?*, and *What Are the Components of Waste Collection and Transport?*

05/15/2002

Order Number: EPA530-F-02-026

Order Form: OSW

Solid Waste Management and Greenhouse Gases: A Life-Cycle Assessment of Emissions and Sinks

Examines how municipal solid waste management and climate change are related. Integrates information on the greenhouse gas implications of various management options for some of the most common materials in MSW. Addresses methodology, raw materials acquisition and manufacturing, forest carbon sequestration, source reduction and recycling, composting, combustion, land-filling, and accounting for emission reductions. Replaces *Greenhouse Gas Emissions from Management of Selected Materials in Municipal Waste*.

05/15/2002

Order Number: EPA530-R-02-006 Order Form: OSW

*Solvents Study

Reports on the study of spent solvents undertaken as a result of a consent decree between EPA and the Environmental Defense Fund. Discusses the wastes associated with the use of the materials as solvents, the toxicity of the wastes, and the management practices for the wastes. Includes the following chemicals: allyl chloride; aniline; diethylamine; 1,4-dioxane; ethylene oxide; bromoform; and vinylidene chloride. Also addresses the methodology used for the solvents industry study. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/id/studies/studys.pdf>.

08/15/1996

Order Number: EPA530-R-96-017 Order Form: OSW

Source Reduction and Your Community: An Introduction to EPA's Planning Packet

Describes source reduction. Addresses how to determine the potential impacts of various source reduction programs on a community. Discusses program potential factors and EPA's *Source Reduction Program Potential Manual* and its companion software. Explains how to use the manual to develop estimates for a community, what data is needed in order to calculate source reduction program potential, and how these tools can identify potential savings and/or costs.

01/15/1999

Order Number: EPA530-F-99-006 Order Form: OSW

Source Reduction Program Potential Manual: A Planning Packet (Flyer)

Introduces the materials in the kit described below. Provides instructions for installing the *ReduceIt* software. Available only as part of the kit.

01/15/1999

Order Number: EPA530-F-99-005 Order Form: OSW

Source Reduction Program Potential Manual: A Planning Packet (Kit)

Contains *Source Reduction Program Potential Manual: A Planning Packet* flyer, the *Source Reduction Program Potential Manual: A Planning Tool* described below and *ReduceIt*, companion software.

11/15/1997

Order Number: EPA530-E-97-001 Order Form: OSW

Source Reduction Program Potential Manual: A Planning Tool

Helps local solid waste managers determine the potential impact of various source reduction options. Examines the program potential, or the portion of a waste stream category that could be addressed by a specific source reduction program. Calculates the program potential for six source reduction options: three residential options (grass-cycling, home composting, and clothing reuse) and three commercial, industrial, and institutional options (office paper reduction, converting to multi-use pallets, and paper towel reduction). Includes a glossary.

09/15/1997

Order Number: EPA530-R-97-002 Order Form: OSW

Spotlight on Waste Prevention: EPA's Program to Reduce Solid Waste at the Source

Emphasizes waste prevention (reducing and reusing) as the ideal solid waste solution. Addresses opportunities for reducing waste throughout a product's life cycle. Lists the benefits of waste prevention and ways to prevent waste. Contains examples of pollution prevention successes being achieved by business, industry, government, and consumers. Includes additional sources of EPA information.

06/15/1995

Order Number: EPA530-K-95-002 Order Form: OSW

Standards for Inspection (40 *CFR* 264.15) and Interim Status Standards for Inspection (40 *CFR* 265.15); Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities Under RCRA, Subtitle C, Section 3004

Documents the proposed explicit requirements for hazardous waste facility owners and operators to develop an inspection schedule tailored to individual facilities. Provides summaries of and responses to comments received on the proposed rule.

04/15/1980

Order Number: PB81-190 001

Order Form: NTIS

Standards for Personnel Training (40 *CFR* 264.16); Interim Status Standards for Personnel Training (40 *CFR* 265.16); Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities Under RCRA, Subtitle C, Section 3004

Provides EPA's support and rationale for personnel training standards at hazardous waste facilities. Describes regulation as originally proposed, summarizes and responds to related comments, and includes legislative authority, key definitions, damage case summaries, and precedents.

04/15/1980

Order Number: PB81-181 380

Order Form: NTIS

Standards for Preparedness and Prevention (40 *CFR* 264 and 265, Subpart C); Standards for Contingency Plan and Emergency Procedures (40 *CFR* 264 and 265, Subpart D); Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities Under RCRA, Subtitle C, Section 3004

Provides EPA's support and rationale for preparedness and prevention standards at hazardous waste facilities. Describes regulation as originally proposed, summarizes and responds to related comments, and includes legislative authority, key definitions, damage case summaries, and precedents.

04/15/1980

Order Number: PB81-181 372

Order Form: NTIS

Standards for Security (40 *CFR* 264.14); Interim Status Standards for Security (40 *CFR* 265.14); Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities Under RCRA, Subtitle C, Section 3004

Provides EPA's support and rationale for security standards at hazardous waste facilities. Concludes that controlling access to hazardous waste facilities is an important part of a regulatory program. Describes regulation as originally proposed, summarizes and responds to related comments, and includes legislative authority, key definitions, damage case summaries, and precedents.

04/15/1980

Order Number: PB81-181 398

Order Form: NTIS

State and Local Governments are Key to Reducing Backyard Burning

Brochure addressed to state and local government leaders about the health hazards of residential backyard burning of household waste. Contains examples of successful efforts to curb backyard burning by several states and local governments. Offers suggestions for providing residents with alternatives to burning. Includes resources.

08/15/2003

Order Number: EPA530-F-03-003

Order Form: OSW

State Authorization Manual; Volume I

Provides guidance for states applying for program revisions to an authorized RCRA state program. Updates the 1988 State Consolidated RCRA Authorization Manual. Emphasizes program revision process.

(EPA530-SW-91-018A) 10/15/1990

Order Number: PB91-130 211 **Order Form: NTIS**

State Authorization Manual; Volume II

Provides guidance for states applying for program revisions to an authorized RCRA state program. Updates the 1988 State Consolidated RCRA Authorization Manual. Consists of appendices with checklists.

(EPA530-SW-91-018B) 10/15/1990

Order Number: PB91-130 229 **Order Form: NTIS**

State Program Advisory Number Eight

Covers RCRA program changes for the period from July 1, through December 31, 1989. Includes seven revised checklists, model language for the Attorney General's statement for changes covered by the state program advisory, and other revisions. Includes revision of First Third Scheduled Wastes and of Checklist 70 which covers changes to 40 CFR Part 124.

(EPA530-SW-91-047) 03/01/1991

Order Number: PB91-179 168 **Order Form: NTIS**

State Programs Advisory Number Nine

Updates the State Authorization Manual (PD 9540.00-09A) with RCRA program changes for the period January 1 through June 30, 1990. Adds nine new checklists and revisions for 10 existing checklists. Also includes a consolidated LDRs checklist.

(EPA530-R-92-001) 01/15/1992

Order Number: PB92-149 285 **Order Form: NTIS**

State Program Advisory Number Ten

Updates the State Authorization Manual with RCRA program changes covering the period July 1, through December 31, 1990. Adds three new revision checklists and revises four existing checklists. Includes a consolidated toxicity characteristics checklist for the rules addressing the toxicity characteristic requirements and revised model Attorney General's statement.

(EPA530-R-94-026) 01/08/1992

Order Number: PB94-193 273 **Order Form: NTIS**

State Program Advisory Number Eleven

Updates the State Authorization Manual with RCRA program changes covering the period January 1 through June 30, 1991. Adds nine new checklists and revises nine existing checklists. Includes a consolidated land disposal checklist, updated through June 30, 1991, and revised model Attorney General's statement.

(EPA530-R-94-027) 01/08/1992

Order Number: PB94-193 281 **Order Form: NTIS**

State Program Advisory Number Twelve

Updates the State Authorization Manual with RCRA program changes covering the period July 1 through December 31, 1991. Adds seven new checklists and revises six existing checklists. Includes consolidated checklists for burning of hazardous waste in BIFs and for the wood preserving listings. Provides a revised model Attorney General's statement.

(EPA530-R-94-028) 01/08/1992

Order Number: PB94-193 299 **Order Form: NTIS**

State Program Advisory Number Thirteen

Updates the State Authorization Manual. Unlike previous state program advisories, does not contain one section that summarizes all of the regulatory changes for the period covered. Provides stand-alone summaries, including model Attorney General language, for each checklist for filing with corresponding checklists and Federal Register notices in the manual. Includes revised versions of checklists 17H and 77 and all consolidated checklists of June 30, 1993.

(EPA530-R-94-029) 04/07/1994

Order Number: PB94-193 307 **Order Form: NTIS**

State Program Advisory Number Fourteen

Updates the State Authorization Manual with RCRA program changes covering the period July 1 through June 30, 1993. Provides 18 new revision checklists and their corresponding summaries and Federal Register articles. Includes an updated model Attorney General's statement and a used oil fact sheet for revision checklist 112. Contains updated consolidated checklists for LDRs, BIFs, toxicity characteristic, and wood preserving and a new consolidated checklist for the Bevill exclusion for mining wastes.

(EPA530-R-95-003) 07/12/1994

Order Number: PB95-170 874 **Order Form: NTIS**

State Program Advisory Number Fifteen

Updates the State Authorization Manual with RCRA program changes covering the period July 1 through June 30, 1994. Provides 10 new revision checklists and their corresponding summaries and Federal Register articles. Includes an updated model Attorney General's statement and a revised checklist 49. Contains new consolidated checklists for recycled used oil management standards and treatability studies. **The State Program Advisories are now updated online at <www.epa.gov/epaoswer/hazwaste/state/revision/program.htm>.**

(EPA530-R-95-007) 02/15/1995

Order Number: PB95-191 219 *Order Form: NTIS*

*State Scrap Tire Programs: A Quick Reference Guide - 1999 Update

Provides a quick reference to state scrap tire regulations across the country. Summarizes collection, selling, hauling, processing, storage, and disposal regulations on a matrix that includes information on market incentives, funding sources, field studies, and innovative uses for scrap tires within each state. Includes contact information. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/muncpl/tires/scrapti.pdf>.

08/15/1999

Order Number: EPA530-B-99-002 *Order Form: OSW*

States' Efforts to Promote Lead-Acid Battery Recycling

Studies state lead-acid battery recycling programs to explore how the federal government and states can most effectively promote this activity. Describes the requirements and effectiveness of individual programs.

(EPA530-SW-91-029) 01/15/1992

Order Number: PB92-119-965 *Order Form: NTIS*

*States May Issue Permit Variances for Municipal Solid Waste Landfills

Fact sheet announcing EPA's decision to provide additional regulatory flexibility to states to use new technologies to manage municipal solid waste (MSW). This action aims to stimulate the development and use of safe, new alternative operational processes to landfill MSW. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/muncpl/mswlficr/rd&d-fs.pdf>.

03/15/2004

Order Number: EPA530-F-03-052 *Order Form: OSW*

Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities; Interim Final Guidance

Assists regional and state personnel in evaluating groundwater monitoring data from RCRA facilities. Guides statistical analysis of groundwater monitoring, pertaining to spatial relationships between monitoring wells and potential contaminant sources.

(EPA530-SW-89-026) 04/15/1989

Order Number: PB89-151 047 *Order Form: NTIS*

Statistical Analysis of Mining Waste Data

Contains analyses conducted to measure the concentration of various elements, anion, radio nuclides, and other parameters in raw mining waste samples and acetic acid extracts of samples.

(EPA530-SW-86-024) 06/30/1986

Order Number: PB86-219 383/AS *Order Form: NTIS*

Statistical Training Course for Ground-Water Monitoring Data Analysis

Outlines the statistical training course for groundwater monitoring data analysis. Describes course topics such as case studies, an introduction to GRITS-STAT, statistical foundations, basics of hypothesis testing, checking assumptions, interval estimation, methods for two-sample comparisons, and control charts. Includes EPA's draft addendum to interim final guidance to statistical analysis of groundwater monitoring data at RCRA facilities.

01/15/1992

Order Number: EPA530-R-93-003 *Order Form: OSW*

Storing Used Motor Oil

Poster designed for service station employees on how to properly store used oil. In Spanish on reverse side.
02/15/2003

Order Number: EPA530-H-02-002
Order Number: EPA530-H-02-002S Order Form: OSW

Strawman II: Recommendations for a Regulatory Program for Mining Wastes and Materials Under Subtitle D of the Resource Conservation and Recovery Act

Represents EPA's position on an effective program to regulate wastes and other materials uniquely associated with noncoal mining. Describes pre-rulemaking process, background, and overview of mining waste program. Discusses scope of program and regulatory approach.
(EPA530-SW-91-056) 05/20/1991

Order Number: PB91-178 418 Order Form: NTIS

***Study of Selected Petroleum Refining Residuals; Industry Study**

Describes EPA's approach to conducting the industry study required by the EPA Environmental Defense Fund consent decree, requiring that EPA "fully characterize" the study residuals and how they are managed. Includes a discussion of the concentration of toxic constituents in each waste, the volume of each waste generated, and the management practices for each waste (including plausible mismanagement practices). Provides an overview of the petroleum refining industry and EPA's approach to this study. Includes the following petroleum refining residuals: desalting sludge from crude desalting; residual oil storage tank sludge; process sludge from residual upgrading; catalysts extraction and isomerization processes, catalytic hydrocracking, polymerization, and HF alkylation; off-spec products and fines from residual upgrading; off-spec sulfur; spent amine and spent Stretford solution; acid soluble oil from HF alkylation; and treating clays from clay filtering, lube oil processing, the extraction and isomerization process, and alkylation. Includes a bibliography. Only available on the Internet at <www.epa.gov/epaoswer/hazwaste/id/studies.htm>.
08/15/1996

Order Number: EPA530-R-96-018 Order Form: OSW

Su Vida, Su Mundo, Sus Opiniones: Todo Lo Que Haga Puede Hacer Una Diferencia Kit

Contiene los materiales para ayudar a adolescencias para aprender sobre las consecuencias para el medio ambiente de productos que utilizan en sus vidas diarias, que inician programas de reciclaje de la escuela, que encuentran y que participan en voluntario ambiental y las oportunidades a través del servicio, y persigue carreras ambientales.

15/04/2004

Número de pedido: EPA530-E-03-001S
Formulario de pedido: OSW

Su Vida, Su Mundo, Sus Opiniones: Todo Lo Que Haga Puede Hacer Una Diferencia Kit [Forma de Orden]

Describe brevemente *Su Vida, Su Mundo, Sus Opiniones: Todo Lo Que Haga Puede Hacer una Diferencia Kit* por adolescencias. Proporciona las instrucciones para ordenar y una forma de orden.

15/06/2004

Número de pedido: EPA530-F-03-013S
Formulario de pedido: OSW

Subchronic Toxicity of Meta-Cresol in Sprague Dawley Rats

Evaluates preliminary test data collected to assess the toxicity of meta-cresol in rats when administered for 13 weeks by oral gavage. Fifty mg per kg per day appears to be the maximum dose that produced no evident adverse effects.
(EPA530-SW-88-026) 03/25/1988

Order Number: PB88-195 284 Order Form: NTIS

Subchronic Toxicity of Ortho-Cresol in Sprague Dawley Rats

Assesses the toxicity of ortho-cresol in rats during 13 weeks of oral gavage administration. Methods and procedures conducted in accordance with appropriate quality assurance programs designed to conform with the Food and Drug Administration's Laboratory Practice Regulations.
(EPA530-SW-88-027) 03/21/1988

Order Number: PB88-197 496 Order Form: NTIS

Subchronic Toxicity of Para-Cresol in Sprague Dawley Rats; MBA Chemical No. 25

Examines oral toxicity of para-cresol in Sprague Dawley rats during 13 weeks of oral gavage administration. Dose levels studied were 0, 50, 175, and 600 mg per kg per day. Para-cresol was hepatotoxic, nephrotoxic, and induced a mild anemic state. Methods and procedures designed to conform with the Food and Drug Administration and EPA Good Laboratory Practices Regulations.

(EPA530-SW-88-025) 04/04/1988

Order Number: PB88-195 292 **Order Form: NTIS**

Subtitle D Industrial Facility Telephone Survey Report (1987)

Develops representative lists of facilities that managed Subtitle D wastes, including landfills, surface impoundments, land application units, and waste piles not regulated as hazardous waste handlers. Develops national and industry-specific estimates of the number of facilities and amount of Subtitle D waste managed.

(EPA530-SW-91-069) 08/15/1991

Order Number: PB91-240 432 **Order Form: NTIS**

Subtitle D Municipal Landfill Survey Report (1986)

Presents the results of a survey of 1,250 municipal landfills in the United States and territories with at least one active landfill unit as of November 1, 1986.

(EPA530-SW-91-070) 08/15/1991

Order Number: PB91-242 396 **Order Form: NTIS**

Subtitle D Study: Phase I Report

Presents the results of data collection for the first phase of studying the adequacy of Subtitle D criteria to protect human health and environment from groundwater contamination. Gives recommendations.

(EPA530-SW-86-054) 10/15/1986

Order Number: PB87-116 810/AS **Order Form: NTIS**

Summary and Technical Review of Supporting Literature for the 1985 Report to Congress on Wastes from the Extraction and Beneficiation of Metallic Ores, Phosphate Rock, Asbestos Overburden From Uranium Mining, and Oil Shale

Presents a technical review of the sampling and analytical data cited in the 1985 Report to Congress on Wastes from the Extraction and Beneficiation of Metallic Ore, Phosphate Rock, Asbestos, Overburden From Uranium Mining, and Oil Shale. Examines the sampling and analysis methodologies and describes the data collected for each of the three sources used in the Report to Congress.

(EPA530-R-93-025)

10/15/1993

Order Number: PB94-113 404 **Order Form: NTIS**

Summary of Appropriate Analytical Methods for Appendix IX; Parts I and II

Presents a survey of key analytical information for each compound on proposed Appendix IX. Ensures that documentation on one or more analytical methods is available to public for every compound on Appendix IX.

Approach prepares separate data sheets by compound for each SW-846 method considered, and for each type of detector reported. Part I includes a survey of data for individual compounds, and Part 2 covers supplementary information on selected compounds.

07/15/1987

Order Number: PB87-230 371 **Order Form: NTIS**

Summary of Comments on Mining Waste Report to Congress

Describes the approach used to summarize comments included in the document. Lists companies, organizations, agencies, and individuals who responded. Organized into five chapters covering legal issues and procedures, technical information, regulations, economics, and recommendations.

(EPA530-SW-86-030)

05/09/1986

Order Number: PB86-222 486/AS **Order Form: NTIS**

Summary of the Second National Conference on Household Hazardous Waste Management

Includes a compendium of presentations made at the Second Annual HHW Management Conference. Overview provided on major national and international issues, collection programs, other management options, special wastes, problem wastes, and future funding options. EPA-sponsored conference coordinated by Center for Environmental Management at Tufts University.
(EPA530-SW-89-042B) 11/02/1987

Order Number: PB89-179 519 Order Form: NTIS

Summary of the Third National Conference on Household Hazardous Waste Management

Includes a compendium of presentations from the Third Annual HHW Management Conference. Presentations summarize issues on collection program operation, batteries, reduction and other management options, funding, permanent programs, program management, farm and home pesticides, components of the HHW education program, scientific information, used oil, paint, and legislative considerations. EPA-sponsored conference coordinated by Center for Environmental Management at Tufts University.
(EPA530-SW-89-042C) 11/02/1988

Order Number: PB89-179 527 Order Form: NTIS

Summary Report of Capacity at Commercial Facilities; Volume I

Provides capacity data on commercial hazardous waste management facilities in all states as derived from EPA's TSDf Survey (conducted in 1987). Covers commercial system capacity, captive system capacity, and onsite system capacity.
(EPA530-SW-89-035A) 01/31/1989

Order Number: PB89-179 022 Order Form: NTIS

Summary Report of Capacity at Commercial Facilities; Volume II

Provides capacity data on commercial hazardous waste management facilities in all states as derived from EPA's TSDf Survey (conducted in 1987). Appendices are included.
(EPA530-SW-89-035B) 01/31/1989

Order Number: PB89-179 030 Order Form: NTIS

Summary Report of Capacity at Limited Commercial and Company Captive Facilities; Draft; Volume I

Provides capacity data on limited commercial and company captive hazardous waste management facilities in all states. Data are designed to be used with the biennial report on waste generation to support development of States' Capacity Assurance Plan. Contains data on limited commercial capacity, captive capacity, and onsite capacity.
(EPA530-SW-89-036A) 02/15/1989

Order Number: PB89-179 048 Order Form: NTIS

Summary Report of Capacity at Limited Commercial and Company Captive Facilities; Draft; Volume II

Provides capacity data on limited commercial and company captive hazardous waste management facilities in all states. Data are designed to be used with the biennial report on waste generation to support development of States' Capacity Assurance Plan. Appendices are included.
(EPA530-SW-89-036B) 02/15/1989

Order Number: PB89-179 055 Order Form: NTIS

Surface Water Screening Procedure; Background Document

Explains EPA's approach designed to establish acceptable concentrations for specific chemical constituents in waste extracts, by working backward from point of potential human exposure to land disposal unit. The screening procedure presented in the paper involves the application of an analytic solute transport equation using values for hydrogeologic parameters to derive distribution of outputs.
(EPA530-SW-86-050) 12/15/1985

Order Number: PB87-101 614 Order Form: NTIS

Survey of Household Hazardous Waste and Related Collection Programs

Identifies existing information on types and quantities of HHW present in residential waste stream. Existing collection programs operating at state and local levels are identified and described. Detailed lists of programs are included, as are case studies of three collection programs.
(EPA530-SW-86-038) 10/15/1986

Order Number: PB87-108 072 Order Form: NTIS

Technical Background Document and Response to Comments: Method 1311—Toxicity Characteristic Leaching Procedure

Proposes EPA amendments to hazardous waste identification regulations by expanding the toxicity characteristic to include additional contaminants. EPA proposes using the leaching test, TCLP, to determine if wastes should be classed as hazardous. Summarizes and responds to comments from the public regarding use of the TCLP. Each major issue regarding the procedure is discussed in a separate section.

(EPA530-SW-90-080) 04/15/1989

Order Number: PB91-102 053 **Order Form: NTIS**

Technical Document: Acid Mine Drainage Prediction

Examines acid generation prediction methods as they apply to noncoal mining sites. Reviews acid forming processes at mine sites. Summarizes current methods used to predict acid formation, including sampling, testing, and modeling. Presents case histories from active mining sites and sites on the Superfund NPL.

(EPA530-R-94-036) 12/15/1994

Order Number: PB94-201 829 **Order Form: NTIS**

Technical Document: Background for NEPA Reviewers: Non-Coal Mining Operations

Offers assistance to federal and state officials in providing scoping comments on National Environmental Policy Act (NEPA) documents for noncoal mining activities proposed on federal lands. Focuses on EPA's major concerns with surface water and ground water, air, and sensitive receptors. Addresses all major noncoal mining sectors, including gold, silver, phosphate, and base metals (lead, zinc, copper, tin, and mercury). Defines key terms in both a technical and regulatory context. Provides a general description of site operations, potential environmental impacts, possible prevention and mitigation measures, and the types of questions that should be asked in reviewing a proposed mining operation. Includes list of contacts, glossary, and references.

(EPA530-R-95-043) 12/15/1994

Order Number: PB96-109 103 **Order Form: NTIS**

Technical Evaluation of the Combustion System of the Marine Shale Processors, Inc. Facility in Amelia, Louisiana

Evaluates the design and performance of a hazardous waste combustion system in use at Marine Shale Processors, Inc., Amelia, Louisiana. Document considers the waste preparation system, rotary kiln, afterburners, combustion control system, and stack emissions control devices in place in February 1990. System evaluated in comparison to good design, operation, maintenance practices, and regulatory controls currently applicable to hazardous waste incinerators permitted under RCRA.

(EPA530-SW-90-086) 10/15/1990

Order Number: PB91-111 492 **Order Form: NTIS**

Technical Guidance Document: Fabrication of Polyethylene FML

Provides guidance for construction quality control and assurance inspectors and related personnel regarding proper techniques for making field seams on polyethylene flexible membrane liners. Specific emphasis on the three most widely used techniques: extrusion fillet, extrusion flat, and hot wedge fabrication methods. Rationale provided for various conditions and limitations, and a glossary of relevant terms concerning polyethylene flexible membrane liners fabrication is included.

(EPA530-SW-89-069) 09/15/1989

Order Number: PB90-119 595 **Order Form: NTIS**

Technical Guidance Document: Final Covers on Hazardous Waste Landfills and Surface Impoundments

Provides information intended for organizations involved in permitting, designing, and constructing hazardous waste land disposal facilities. Provides design guidance on final cover systems for hazardous waste landfills and surface impoundments. The cover system discussed has a multilayer design. Optional layers which may be required for site-specific conditions are discussed. Rationale is provided for design parameters to give background information and understanding of cover systems.

(EPA530-SW-89-047) 07/15/1989

Order Number: PB89-233 480 **Order Form: NTIS**

Technical Guidance Document: Inspection Techniques for the Fabrication of Geomembrane Field Seams

Assists EPA and state personnel in implementing new corrective action provisions by providing a central source of information on air emissions control technologies and techniques for hazardous waste TSDFs. Gives descriptions of waste management unit design and operation practices which prevent or control vapor and particulate releases from containerized waste storage, tanks, surface impoundments, landfills, land treatment and waste piles. The transfer of control technology from the industrial sector to hazardous waste management is discussed.

(EPA530-SW-91-051) 05/15/1991

Order Number: PB92-109 057 **Order Form: NTIS**

Technical Guidance for Corrective Measures: Determining Appropriate Technology and Response for Air Releases; Draft Final Report

Assists EPA and state personnel in implementing the new corrective action provisions by providing information on air emissions control technologies and techniques for hazardous waste facilities. Describes waste management unit design and operation practices which prevent or control vapor and particulate releases from containerized waste storage, tanks, surface impoundments, landfills, land treatment and waste piles. Discusses the transfer of control technology from industrial sector to hazardous waste management.

(EPA530-SW-88-021) 03/15/1985

Order Number: PB88-185 269 **Order Form: NTIS**

Technical Guidance for Corrective Measures: Subsurface Gas

Provides technical guidance in assessing the need for corrective action, reviewing permit applications, and writing permits for hazardous waste facilities. Presents a framework to states, EPA, and facility owners and operators to identify whether subsurface gas is migrating beyond facility boundaries or into on-site structures at concentrations threatening to human health and the environment.

(EPA530-SW-88-023) 03/28/1985

Order Number: PB88-185 285 **Order Form: NTIS**

Technical Implementation Document for EPA's Boiler and Industrial Furnace Regulations

Provides permit writers and owners and operators with technical guidance for following BIF rule requirements. Addresses certain precompliance and compliance certification activities, permitting, continued compliance with operating requirements, and associated planning and testing required for compliance with rules.

(EPA530-R-92-011) 03/01/1992

Order Number: PB92-154 947 **Order Form: NTIS**

Technical Report: Design and Evaluation of Tailings Dams

Presents an introduction to the subject of tailings dams and impoundments, particularly with regard to their engineering features and their ability to mitigate or minimize adverse effects to the environment. Provides an overview of the various methods used to dispose of mine tailings and the types of impoundments used. Describes the basic concepts used in the design of impoundments, including a number of site-specific variables of concern. Discusses tailings embankment and stability and addresses water management in tailings impoundments. Presents a case study on a lined tailings impoundment. Includes an appendix with comments received on the draft document with EPA responses.

(EPA530-R-94-038) 08/15/1994

Order Number: PB94-201 845 **Order Form: NTIS**

Technical Report: Exploration, Development, and Production of Crude Oil and Natural Gas; Field Sampling and Analytical Results

Presents findings of the field sampling and analysis project conducted on wastes associated with exploration, development, and projection of crude oil and natural gas. Summary of analytical data is presented.

(EPA530-SW-87-005) 01/31/1987

Order Number: PB87-165 403 **Order Form: NTIS**

Technical Report: Exploration, Development, and Production of Crude Oil and Natural Gas; Appendix A: Analytical Results

Presents the analytical results in an appendix for the field sampling and analysis project conducted on wastes associated with exploration, development, and projection of crude oil and natural gas.

(EPA530-SW-87-005A) 01/31/1987

Order Number: PB87-165 411 Order Form: NTIS

Technical Report: Exploration, Development, and Production of Crude Oil and Natural Gas; Appendix B: Sampling Strategy

Presents the sampling strategy in an appendix to the report for the field sampling and analysis project conducted on wastes associated with exploration, development, and projection of crude oil and natural gas.

(EPA530-SW-87-005B) 01/31/1987

Order Number: PB87-165 429 Order Form: NTIS

Technical Report: Exploration, Development, and Production of Crude Oil and Natural Gas; Appendix C: Sampling Reports; Volumes 1 and 2

Presents the sampling reports for the report on the field sampling and analysis project conducted on wastes associated with exploration, development, and projection of crude oil and natural gas.

(EPA530-SW-87-005C) 01/31/1987

Order Number: PB87-165 437 Order Form: NTIS

Technical Report: Exploration, Development, and Production of Crude Oil and Natural Gas; Appendix D: Analytical Methods

Presents the analytical methods for the report on the field sampling and analysis project conducted on wastes associated with exploration, development, and projection of crude oil and natural gas.

(EPA530-SW-87-005D) 01/31/1987

Order Number: PB87-165 445 Order Form: NTIS

Technical Report: Exploration, Development, and Production of Crude Oil and Natural Gas; Appendix E: Role and Function of EPA Sample Control Center

Presents the role and function of Sample Control Center for the report on the field sampling and analysis project conducted on wastes associated with exploration, development, and projection of crude oil and natural gas.

(EPA530-SW-87-005E) 01/31/1987

Order Number: PB87-165 452 Order Form: NTIS

Technical Report: Exploration, Development, and Production of Crude Oil and Natural Gas; Appendix F: List of Analytes

Presents the list of analytes for the report on the field sampling and analysis project conducted on wastes associated with exploration, development, and projection of crude oil and natural gas.

(EPA530-SW-87-005F) 01/31/1987

Order Number: PB87-165 460 Order Form: NTIS

Technical Report: Exploration, Development, and Production of Crude Oil and Natural Gas; Appendix G: Sampling Plan and Sampling Quality Assurance/Quality Control

Presents the sampling plan and quality assurance/quality control plan for the technical report on the field sampling and analysis project conducted on wastes associated with exploration, development, and projection of crude oil and natural gas.

(EPA530-SW-87-005G) 01/31/1987

Order Number: PB87-165 478 Order Form: NTIS



Technical Report: Treatment of Cyanide Heap Leaches and Tailings

Provides information on cyanide treatment methods for heap leaches and tailings activities associated with cyanidation operations. Discusses cyanide detoxification or treatment in terms of chemistry, duration, removal efficiencies, and advantages and limitations. Describes treatment techniques and typical closure and reclamation activities for heaps and tailings impoundments. Includes federal and state requirements that apply to cyanide operations and selected case studies. Presents treatment options without evaluating their efficiency.

(EPA530-R-94-037) 09/15/1994

Order Number: PB94-201 837 **Order Form: NTIS**

Technical Resource Document: Design, Construction, and Operation of Hazardous and Non-Hazardous Waste Surface Impoundments

Summarizes operation and closure of hazardous waste and nonhazardous waste surface impoundments. Regulations summarized, and postclosure activities discussed. Document reflects the fact that most available information, ongoing research, and pertinent regulations deal with surface impoundments that used to contain hazardous waste. Much technical information should, however, be applicable to nonhazardous waste impoundments.

(EPA530-SW-91-054) 06/15/1991

Order Number: PB91-204 354 **Order Form: NTIS**

Technical Resource Document: Extraction and Beneficiation of Ores and Minerals; Volume 1: Lead - Zinc

Presents the results of EPA's research into the domestic lead-zinc mining industry. Briefly characterizes the geology of lead-zinc ores and the economics of the industry. Reviews lead-zinc extraction and beneficiation methods and discusses potential environmental effects of lead-zinc mining. Describes current regulatory programs implemented by EPA, federal land management agencies, and selected states. Appendices include specific flotation activities employed for polymetallic ores and associated process flow sheets, NPL site summaries related to lead and zinc extraction and beneficiation, and a summary of comments on the report with EPA responses.

(EPA530-R-94-011) 06/15/1994

Order Number: PB94-170 248 **Order Form: NTIS**

Technical Resource Document: Extraction and Beneficiation of Ores and Minerals; Volume 2: Gold

Presents the results of EPA's research into the domestic gold mining industry. Briefly characterizes the geology of gold ores and the economics of the industry. Reviews gold extraction and beneficiation methods and discusses potential environmental effects of gold mining. Describes current regulatory programs implemented by EPA, federal land management agencies, and selected states.

Appendices include flow sheets of specific mine operations, NPL site summaries related to gold extraction and beneficiation, and comments on site visits with EPA responses.

(EPA530-R-94-013)

07/15/1994

Order Number: PB94-170 305 **Order Form: NTIS**

Technical Resource Document: Extraction and Beneficiation of Ores and Minerals; Volume 3: Iron

Profiles the domestic iron mining industry. Characterizes the geology of iron ores and the economics of the industry. Reviews iron extraction and beneficiation methods. Discusses potential environmental effects of iron mining. Describes current regulatory programs that apply to the iron mining industry as implemented by EPA, federal land management agencies, and selected states. Appendix includes comments on the report with EPA responses.

(EPA530-R-94-030)

08/15/1994

Order Number: PB94-195 203 **Order Form: NTIS**

Technical Resource Document: Extraction and Beneficiation of Ores and Minerals; Volume 4: Copper

Presents the results of EPA's research into the domestic copper mining industry. Briefly characterizes the geology of copper ores and the economics of the industry. Reviews copper extraction and beneficiation methods and discusses potential environmental effects of copper mining. Describes current regulatory programs implemented by EPA, federal land management agencies, and selected states. Appendices include a summary of comments and EPA responses, case studies of published information on copper mine waste management practices, NPL site summaries related to copper mining, and an acronym list.

(EPA530-R-94-031)

08/15/1994

Order Number: PB94-200 979 **Order Form: NTIS**

Technical Resource Document: Extraction and Beneficiation of Ores and Minerals; Volume 5: Uranium

Presents the results of EPA's research into the domestic uranium mining industry. Briefly characterizes the geology of uranium ores and the economics of the industry. Reviews uranium extraction and beneficiation methods and discusses potential environmental effects of uranium mining. Describes current regulatory programs implemented by EPA, federal land management agencies, and selected states. Appendices include summaries of NPL site summaries related to the extraction and beneficiation of uranium, an acronym list, and the groundwater standards for remedial actions at inactive uranium processing sites.

(EPA530-R-94-032) 12/15/1994

Order Number: PB94-200 987 Order Form: NTIS

Technical Resource Document: Extraction and Beneficiation of Ores and Minerals; Volume 6: Gold Placers

Presents the results of EPA's research into the domestic gold placer mining industry. Briefly characterizes the geology of gold placer deposits and the economics of the industry. Reviews gold placer extraction and beneficiation methods and discusses potential environmental effects of gold placer mining. Describes current regulatory programs implemented by EPA, federal land management agencies, and selected states. Appendix includes comments on the report with EPA responses.

(EPA530-R-94-035) 10/15/1994

Order Number: PB94-201 811 Order Form: NTIS

Technical Resource Document: Extraction and Beneficiation of Ores and Minerals; Volume 7: Phosphate and Molybdenum

Presents the results of EPA's research into the domestic phosphate and molybdenum mining industry. Comprises two site visit reports conducted by EPA to a phosphate mine in Florida and a molybdenum mine in Idaho during 1991 and 1992. Both reports include a general facility description, the environmental setting (climate, surface water, geology, hydrogeology, and wildlife), facility operations, waste and materials management, regulatory requirements and compliance, and groundwater monitoring data. Appendix includes comments on the report and EPA responses.

(EPA530-R-94-034) 11/15/1994

Order Number: PB94-201 001 Order Form: NTIS

Technical Resource Document for Obtaining Variances from the Secondary Containment Requirement of Hazardous Waste Tank Systems; Volume I

Provides hazardous waste tank system owners and operators information for submitting technology-based and risk-based variances from EPA requirements for secondary containment with release monitoring for systems. Volume 1 treats technology-based variances that can be granted if tank system owners and operators demonstrate that a release can be contained, detected, and removed by using new technology or alternative operating procedures before the release leaves area under owner control.

(EPA530-SW-87-002A) 02/15/1987

Order Number: PB87-158 655/AS Order Form: NTIS

Technical Resource Document for Obtaining Variances from the Secondary Containment Requirement of Hazardous Waste Tank Systems; Volume II

Provides hazardous waste tank system owners and operators information for submitting technology-based and risk-based variances from EPA requirements for secondary containment with release monitoring for tank systems. Volume 2 treats risk-based variances that may be granted if an owner or operators shows that if the release occurs, there will be no substantial hazard to the environment and human health. Provides guidance to applicants seeking variance and to permit writers reviewing variance demonstrations.

(EPA530-SW-87-002B) 02/15/1987

Order Number: PB87-158 663/AS Order Form: NTIS

Technical Resource Document for the Storage and Treatment of Hazardous Waste in Tank Systems

Provides assistance to owners or operators of hazardous waste tank systems on preparing Part B permit application (40 CFR Part 270) to demonstrate compliance with general applicable permitting standards, as well tank-specific permitting standards. Provides information on procedures for inspection, unfit-for-use tank system corrective action, and closure and postclosure care. Gives introductory and background information on overall background regulations and permitting process.

(EPA530-SW-86-044) 08/22/1986

Order Number: PB87-134 391/AS Order Form: NTIS



Technical Resource Document: Solidification/Stabilization and Its Application to Waste Materials

Serves as a technical resource for the solidification and stabilization user community. Lists RCRA wastes for which solidification and stabilization is identified as the best available treatment technology. Emphasizes technology transfer and promotes the best possible future uses of solidification and stabilization processes. Addresses when solidification and stabilization processes are the best preferred technology, evaluation of alternative processes, correct and incorrect ways of using processes, and designing the correct process. Discusses solidification and stabilization technology screening procedures, process performance tests, technology status, technology shortcomings and limitations, and current research and future development needs. Appendices include solidification and stabilization technology screening worksheets, a draft report of sampling and analytical procedures, and a glossary.

(EPA530-R-93-012)

06/15/1993

Order Number: PB93-237 535

Order Form: NTIS

Technical Studies Supporting the Mining Waste Regulatory Determination

Presents description of study procedure and techniques for the extraction procedure toxicity test to evaluate RCRA hazardous characteristics of mining and smelting wastes, particularly lead and cadmium. Two principal tasks are described. The first assesses the validity of arsenic, lead, cadmium, barium, silver, and chromium concentrations in extraction procedure-toxicity leachates. The second task compares the extraction efficiency of four leachate techniques. Presents conclusions and recommendations of researchers.

(EPA530-SW-86-026)

06/30/1986

Order Number: PB86-219 417/AS

Order Form: NTIS

Teratologic Evaluation of 2,3,4,6- Tetrachlorophenol Administered to CD Rats on Gestational Days 6 Through 15; Final Report

Presents results of the teratologic evaluation of 2,3,4,6-tetrachlorophenol administered by gavage in olive oil to timed-pregnant rats. Results suggest embryo or fetal growth and prenatal viability were not adversely affected by tetrachlorophenol exposure, nor was there any definitive evidence of effect of tetrachlorophenol upon fetal morphological development.

(EPA530-SW-88-017A)

08/21/1987

Order Number: PB88-176 151

Order Form: NTIS

Teratologic Evaluation of 2,3,4,6- Tetrachlorophenol Administered to CD Rats on Gestational Days 6 Through 15; Final Report; Appendices I-IX

Presents results of 2,3,4,6-tetrachlorophenol administered by gavage in olive oil to timed-pregnant CD rats (doses: 0, 25, 100, or 200 mg per kg per day) to assess possible teratologic effects of substance. Embryo or fetal growth and prenatal viability were not adversely affected by tetrachlorophenol exposure, nor was there any definitive evidence of tetrachlorophenol effects upon fetal morphological development. Appendices I through IX contain data about specific aspects of the study.

(EPA530-SW-88-017B)

08/21/1987

Order Number: PB88-176 169

Order Form: NTIS

Test Method Equivalency Petitions; A Guidance Manual

Provides guidance to parties who wish to submit test method petition. Explains what information a petition must include. Addresses RCRA regulations requiring test method equivalency petition. Discusses EPA petition review process and describes the basic statistical procedures for evaluating test method equivalency. Describes how a petition is prepared, with a sample format. Includes example of test method petition.

(EPA530-SW-87-008)

02/15/1987

Order Number: PB87-178 349

Order Form: NTIS

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods; Third Edition; Draft Update IVA

Contains methods which EPA is considering for inclusion in the SW-846 methods manual. Includes 15 revised methods, four revised chapters, a revised table of contents, and 13 new methods. Addresses the removal or integration of 44 other methods. Also available on CD-ROM.

(EPA/SW-846.3-4) 01/15/1998

Order Number: 055-000-00593-1 *Order Form: GPO*
Order Number: PB98-111 750 *Order Form: NTIS*
CD Order Number: PB99-500 803 *Order Form: NTIS*

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods; Third Edition; Volumes IA, IB, IC, and II

Provides test procedures that can be used to evaluate properties of solid waste which determine whether waste is hazardous within the definition of Section 3001, RCRA. Encompasses methods for collecting samples of solid wastes, and for determining reactivity, corrosivity, ignitability, and composition of wastes and mobility of toxic species present. Replaces the second edition by its incorporation by reference (along with its first update) into CFR. GPO provides basic volumes and updates on a subscription basis.

(EPA SW-846) 11/15/1986

Order Number: 955-001-00000-1 *Order Form: GPO*
Order Number: PB88-239 223 *Order Form: NTIS*

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods; Third Edition; Final Update I

Updates test procedures and guidance recommended for conducting evaluations and measurements needed to comply with Subtitle C of RCRA. Details methods approved by EPA for obtaining data to satisfy requirements. Replaces the second edition by its incorporation by reference (along with the basic volumes) into CFR.

(EPA SW-846.3-1) 11/15/1992

Order Number: 955-001-00000-1 *Order Form: GPO*
Order Number: PB94-170 313 *Order Form: NTIS*

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods; Third Edition; Final Updates II and IIA

Updates test procedures and guidance recommended for conducting evaluations and measurements needed to comply with Subtitle C of RCRA. Revises several methods in the third edition of SW-846, used in complying with the requirements of Subtitle C of RCRA.

Recommends several new methods that allow more flexibility of method selection. Provides methods for additional analyses.

(EPA SW-846.3-2) 01/15/1995

Order Number: 955-001-00000-1 *Order Form: GPO*
Order Number: PB95-187 225 *Order Form: NTIS*

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods; SW-846; Third Edition; Final Update IIB

Incorporates methods 9040B and 9045C. Clarifies regulatory requirements regarding the temperature for pH measurements of highly alkaline wastes during corrosivity characteristic testing.

(EPA SW-846.3-2B) 01/15/1995

Order Number: 955-001-00000-1 *Order Form: GPO*
Order Number: PB95-234 480 *Order Form: NTIS*

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods; Third Edition; Final Update III

Contains updated test procedures and guidance recommended for conducting evaluations and measurements needed to comply with Subtitle C of RCRA. Finalizes 40 revised methods, eight revised chapters, and 62 new methods.

(EPA SW-846.3-3) 12/15/1996

Order Number: 955-001-00000-1 *Order Form: GPO*
Order Number: PB97-156 137 *Order Form: NTIS*

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods; Third Edition; Final Update IIIA

Amends SW-846 to delete test method 9070 and to replace it with method 1664. Incorporates method 1664 by reference into the RCRA regulations. Revises method 9071B to use n-hexane instead of CFC-113 as the extraction solvent.

(EPA SW-846.3-3A) 04/15/1998

Order Number: 955-001-00000-1 Order Form: GPO
Order Number: PB99-115 891 Order Form: NTIS

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods; Third Edition; Integrated Manual

Incorporates the entire manual with all final updates, except IIIA.

(EPA SW-846) 06/15/1997

Order Number: PB97-156 111 Order Form: NTIS

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods; Third Edition; Integrated Manual on CD-ROM

Incorporates all the text and figures found in the promulgated version of SW-846, including Updates I, II, IIA, IIB, and III. Using Adobe™ as the search engine, users can search the document using either the chemical or common name of the analyte of interest, its CAS number, the number of the method, the analytical technique, or a variety of keywords. Users can also view and print the material, including diagrams and figures, and cut and paste the information to develop or update laboratory standard operating procedures.

(EPA SW-846) 05/15/1997

Order Number: PB97-501 928INQ (single user)
Order Number: PB97-502 512 (up to 5 users)
Order Number: PB97-502 520 (unlimited users)
Order Form: NTIS

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods; Third Edition; Proposed Update IVB

Discusses revisions to several methods and chapters of SW-846. Describes proposed changes to methods in the 1000 and 9000 series. Addresses allowing more flexibility when conducting RCRA-related sampling and analysis, by removing unnecessary required uses of methods

(EPA SW-846.3-3B) 08/15/2002

Order Number: 955-001-00000-1 Order Form: GPO
Order Number: PB2003-100 855 Order Form: NTIS

Third Report to Congress: Resource Recovery and Source Reduction

Reports on the recovery of resources from waste and the reduction of waste generation. Examines policy issues, reviews technological progress, summarizes city and state activities, and reviews EPA studies and investigations for 1974. Chapter-by-chapter summaries of report given.

(EPA SW-448) 01/15/1975

Order Number: PB88-174 677 Order Form: NTIS

¿Tienes tu Licencia de Conducir? Puedes Hacer una Diferencia (Spanish Translation of Got Your Driver's License? You Can Make a Difference)

Folleto que anima a manejadores nuevos que reciclen su aceite usado. Incluido en *Su Vida, Su Mundo, Sus Opiniones: Todo Lo Que Haga Puede Hacer una Diferencia Kit*.

15/03/2004

Número de pedido: EPA530-F-03-040S
Formulario de pedido: OSW

Toxicity Characteristic Leaching Procedure; Background Document on Resource Conservation and Recovery Act, Subtitle C, Hazardous Waste Management System, Section 3001, Identification and Listing of Hazardous Waste

Presents the toxicity characteristic, identified as one of the characteristics which, if exhibited by a waste, would indicate a hazardous waste. Defines toxicity characteristic waste as those which pose a hazard due to their potential to leach significant concentrations of specific toxic species. Discusses the drawbacks of the original extraction procedure and traces the development of a second generation leaching procedure, the toxicity characteristic leaching procedure.

03/10/1986

Order Number: PB87-154 886/AS Order Form: NTIS

Toxicity Characteristic Regulatory Impact Analysis

Examines costs and benefits of expanded toxicity characteristic used to identify hazardous wastes regulated under Subtitle C, RCRA. Document fulfills requirements of Executive Order 12291, requiring EPA to prepare regulatory impact analyses for all major rulemakings. (EPA530-SW-90-088)

03/15/1990

Order Number: PB91-101 873 Order Form: NTIS

Training and Technical Assistance Directory for Tribal Solid Waste Managers

Provides listing of relevant and currently available sources of MSW technical assistance and training. Includes technology and information exchange forums, workshops, resource and referral networks, partnership building programs, hotlines, clearinghouses, and onsite assessments in addition to formal solid waste management training. The first section lists tribal colleges offering degrees and certification in different environmental fields. The second section lists state agencies and organizations, regional organizations, federal government, and national organizations under four broad topics: waste/pollution prevention, recycling, composting, and MSW collection, transfer, and disposal. Concludes with a section on list servers.

03/15/1999

Order Number: EPA530-B-99-007 Order Form: OSW

Trash and Climate Change: Planet Protectors Discover the Hidden Reasons to Reduce, Reuse, and Recycle

An activity book including fill-in-the-blanks, matching, scrambled words, math skills, crossword puzzles, and a game kids can put together themselves. All of the games use key waste management terms to teach kids about reducing, reusing, and recycling waste. Involves kids and shows them how they can make a difference through fun, educational games. Included in the *Planet Protectors Club Kit*. Also available in Spanish.

07/15/2000

**Order Number: EPA530-K-00-001
Order Number: EPA530-K-00-001S Order Form: OSW**

Treatment Technology Background Document; Second Third; Final

Includes descriptions of 23 treatment technologies, including information relevant to the use and understanding of background documents for each group of listed hazardous wastes, subject to RCRA Land Ban restrictions. Descriptions represent the revisions to previously published versions. New descriptions may be added as appropriate to describe technologies being considered for BDAT selection for Third Third waste. (EPA530-SW-89-048A)

06/15/1989

Order Number: PB89-221 410 Order Form: NTIS

Treatment Technology Background Document; Third Third; Final

Discusses treatment technologies applicable to wastes subject to LDRs mandated by Congress as part of 1984 HSWA to RCRA. Discusses either the substantially diminished toxicity of hazardous constituents and/or the reduced likelihood of migration of such constituents from waste. (EPA530-SW-90-059Z)

01/15/1991

Order Number: PB91-160 556 Order Form: NTIS



Trial Burn Observation Guide

Assists regional and state regulatory staff in observing trial burns at hazardous waste incinerators. Provides background information about tests and identifies other documents and personnel that can provide additional assistance or information. Describes how to prepare for observing tests and how to conduct onsite activities during tests. Several checklists and data forms included. (EPA530-SW-89-027) 03/15/1989

Order Number: PB89-179 543

Order Form: NTIS

Tribal Decision-Makers Guide to Solid Waste Management

Provides a variety of options and technical assistance solutions to help tribes and Alaskan Native villages protect their environment and the health of their members. Addresses developing solid waste management plans; developing, implementing, and enforcing solid waste codes, laws, and regulations; solid waste collection and disposal programs; waste reduction, buying recycled, and manufacturing with recovered materials; public education and community outreach; and funding the solid waste management program. Includes acronyms list, glossary, tribal information sources and contacts, and sample public education tools used by tribes. 11/15/2003

Order Number: EPA530-R-03-013

Order Form: OSW

Tribal Leaders are Key to Reducing Backyard Burning

Brochure addressed to tribal leaders about the health hazards of residential backyard burning of household waste. Provides examples of successful efforts to curb backyard burning by several tribes. Offers suggestions for providing residents with alternatives. Includes resources. 08/15/2003

Order Number: EPA530-F-03-016

Order Form: OSW

Tribal Waste Journal: Against All Odds: Transfer Station Triumphs

Features articles on development, education to win community support, funding, siting, designing, building, operation, and maintenance of transfer stations. Contains an interview with the director of Ogala Sioux Environmental Protection Program. Includes resources, contacts for tribes with successful transfer stations, and a section for kids. 05/15/2003

Order Number: EPA530-N-03-001

Order Form: OSW

Tribal Waste Journal: Alaska Villages Chart their own Course toward Solid Waste Solutions

Focuses on success stories of several Alaskan Native villages that have overcome some of the obstacles to proper solid waste management through creativity, persistence, and partnerships. Features "7 Generations Training: Addressing Village Environmental Issues for the Future Generations of Rural Alaska." Includes resources and a section for kids. 02/15/2004

Order Number: EPA530-N-03-005

Order Form: OSW

Tribal Waste Journal: Respect Our Resources: Prevent Illegal Dumping

Premiere issue of annual journal features prevention of illegal dumping. Related articles include building a multifaceted program, community outreach and involvement, keeping sites clean, and measurement. Includes a list of resources and an activity-packed kids page. Replaces the *Native American Network* newsletter. 05/15/2002

Order Number: EPA530-N-02-001

Order Form: OSW

Turning Garbage into Gold

Fact sheet describing the successful creation of an innovative market-based infrastructure for diverting commercial and agricultural organic waste from disposal to landfills in Massachusetts. Discusses benefits and challenges. Addresses replicating the successful project. Also available in the kit folder *Climate Change and Waste*. 07/15/2002

Order Number: EPA530-F-02-021

Order Form: OSW

25 Years of RCRA: Building on Our Past to Protect Our Future

Provides a history of the Resource Conservation and Recovery Act (RCRA) on the twenty-fifth anniversary of its passage by Congress. Addresses the cradle-to-grave management of waste, the hazardous and solid waste amendments of 1984, land disposal restrictions, corrective action and cleanup programs, better municipal solid waste management, safer municipal solid waste landfills, recycling, federal procurement guidelines, and public involvement. Includes a foldout time line.

04/15/2002

Order Number: EPA530-K-02-027 Order Form: OSW

***2004 Buy Recycled Series: Construction Products**

Discusses the CPG, which requires federal agencies to give preference to purchasing items made from recovered materials. Describes the RMAN, which recommends recycled-content levels. Defines key terms. Provides a table listing EPA's recommended recovered material content levels for the purchase of specific construction products. Contains case studies. Includes sources for additional information. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/procure/pdf/construct.pdf>.

08/15/2004

Order Number: EPA530-F-04-011 Order Form: OSW

***2004 Buy Recycled Series: Landscaping Products**

Discusses the CPG, which requires federal agencies to give preference to purchasing items made from recovered materials. Describes the RMAN, which recommends recycled-content levels. Provides a table listing EPA's recommended recovered material content levels for the purchase of specific landscaping products. Contains case studies. Includes sources for additional information. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/procure/pdf/landscape.pdf>.

08/15/2004

Order Number: EPA530-F-04-012 Order Form: OSW

***2004 Buy Recycled Series: Miscellaneous Products**

Discusses the CPG, which requires federal agencies to give preference to purchasing items made from recovered materials. Describes the RMAN, which recommends recycled-content levels. Provides a table listing EPA's recommended recovered material content levels for the purchase of miscellaneous products: awards and plaques, industrial drums, mats, pallets, signage, sorbents, and manual-grade strapping. Contains case studies. Includes sources for additional information. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/procure/pdf/miscell.pdf>.

08/15/2004

Order Number: EPA530-F-04-013 Order Form: OSW

***2004 Buy Recycled Series: Nonpaper Office Products**

Discusses the CPG, which requires federal agencies to give preference to purchasing items made from recovered materials. Describes the RMAN, which recommends recycled-content levels. Provides a table listing EPA's recommended recovered material content levels for the purchase of specific nonpaper office products. Includes sources for additional information. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/procure/pdf/nonpaper.pdf>.

08/15/2004

Order Number: EPA530-F-04-014 Order Form: OSW

***2004 Buy-Recycled Series: Paper Products**

Discusses the CPG, which requires federal agencies to give preference to purchasing items made from recovered materials. Describes the RMAN, which recommends recycled-content levels. Provides a table listing recovered material content to look for when purchasing paper products. Gives buying tips. Includes sources for additional information. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/procure/pdf/paper.pdf>.

08/15/2004

Order Number: EPA530-F-04-015 Order Form: OSW

***2004 Buy Recycled Series: Park and Recreation Products**

Discusses the CPG, which requires federal agencies to give preference to purchasing items made from recovered materials. Describes the RMAN, which recommends recycled-content levels. Provides a table listing EPA's recommended recovered material content levels for the purchase of specific park and recreation products. Contains case studies. Includes sources for additional information. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/procure/pdf/parks.pdf>.

08/15/2004

Order Number: EPA530-F-04-016 Order Form: OSW

***2004 Buy Recycled Series: Transportation Products**

Discusses the CPG, which requires federal agencies to give preference to purchasing items made from recovered materials. Describes the RMAN, which recommends recycled-content levels. Defines key terms. Provides a table listing EPA's recommended recovered material content levels for purchasing specific transportation products. Contains case studies. Includes sources for additional information. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/procure/pdf/transport.pdf>.

08/15/2004

Order Number: EPA530-F-04-017 Order Form: OSW

***2004 Buy Recycled Series: Vehicular Products**

Discusses the CPG, which requires federal agencies to give preference to purchasing items made from recovered materials. Describes the RMAN, which recommends recycled-content levels. Provides a table listing EPA recommendations for purchasing vehicular products. Contains case studies. Includes sources for additional information. Only available on the Internet at <www.epa.gov/epaoswer/non-hw/procure/pdf/vehicle.pdf>.

08/15/2004

Order Number: EPA530-F-04-018 Order Form: OSW

Unit Pricing: Providing an Incentive to Reduce Municipal Solid Waste

Describes how customers are charged for waste collection and disposal services based on amount of trash generated with unit or variable-rate pricing. Describes how the system works, the benefits of unit pricing, and its implementation.

02/15/1991

Order Number: EPA530-SW-91-005 Order Form: OSW

Universal Waste Rule (Brochure)

Summarizes EPA's universal waste rule designed to reduce the amount of hazardous waste items in the MSW stream, encourage recycling and proper disposal of certain common hazardous wastes, and reduce the regulatory burden on businesses that generate these wastes. Defines universal wastes as including certain batteries, agricultural pesticides, and thermostats. Describes how businesses, households, and communities are affected by this rule. Outlines the state's role in implementing this rule. Also available in Spanish.

02/15/1996

Order Number: EPA530-F-95-025

Order Number: EPA530-F-95-025S Order Form: OSW

U.S. Department of Transportation Hazardous Materials Regulations as They Apply to the U.S. Environmental Protection Agency's Hazardous Waste Regulations

Explains the interface which occurs between the Department of Transportation and EPA regulations when hazardous wastes are transported (Hazardous Materials Transportation Regulation). Manual does not address sections of the regulation dealing with transportation by pipeline. EPA regulations under sections 265.1 and 260.10 do not apply.
(EPA SW-935)

11/01/1981

Order Number: PB82-182 361

Order Form: NTIS

U.S. Environmental Protection Agency Mine Waste Policy Dialogue Committee Meeting Summaries and Supporting Material

Contains the transmittal memorandum and charter establishing the EPA's Mine Waste Policy Dialogue Committee, the list of participants, summaries of the meetings, the EPA memorandum concerning procedural approaches to develop a template and conduct states reviews, and the Policy Dialogue Committee White Paper. Defines mining waste issues and identifies differing positions on the issues.
(EPA530-R-94-043) 03/15/1994

Order Number: PB95-122 529 Order Form: NTIS

Use of the Water Balance Method for Predicting Leachate Generation From Solid Waste Disposal Sites

Analyzes factors affecting percolation and its relationship to leachate generation. Discusses methodology to estimate leachate generation based on water balance method commonly used in soil and water conservation fields.
(EPA SW-168) 10/15/1975

Order Number: PB87-194 643 Order Form: NTIS

Used Dry Cell Batteries: Is a Collection Program Right for Your Community?

Helps communities determine whether establishing a program to collect used dry cell batteries is right for them. Reviews 10 key issues related to setting up and running a collection program, from determining the types and amounts of dry cell batteries being discarded to estimating the likely costs of a program. Focuses on household battery collection.
12/15/1992

Order Number: EPA530-K-92-006 Order Form: OSW

The Used Oil Management Standards (Video)

Designed primarily for generators of used oil, this video also contains useful information for all used oil handlers whose activities are regulated by EPA's used oil management standards. Explains the definition of used oil handlers. Discusses how to manage used oil, what types of used oil are regulated, and issues pertaining to use oil and hazardous waste. Addresses used oil disposal and the specific used oil management requirements.
07/15/1999

Order Number: EPA530-V-99-001 Order Form: OSW

Using the C²P² Logo

Guidelines for using the Coal Combustion Products Partnership C²P² logo. Provides examples of how a company can or cannot use the logo. Offers suggestions for using the logo both externally and internally.
10/15/2003

Order Number: EPA530-F-03-032 Order Form: OSW

Variable Rates in Solid Waste: Handbook for Solid Waste Officials; Volume I: Executive Summary

Points out potential benefits of moving toward variable rates, and potential costs. Manual and companion volume are designed to assist managers and analysts in carrying out analysis of options available in their jurisdictions, and to alert managers to issues, interdependencies, options, suggestions, and solutions.
06/15/1990

Order Number: EPA530-SW-90-084A Order Form: OSW

Variable Rates in Solid Waste: Handbook for Solid Waste Officials; Volume II: Detailed Manual

Assists solid waste officials in analyzing solid waste system changes. Emphasis on factors related to changes to fee system. Includes six major parts with tables of contents.
(EPA530-SW-90-084B) 06/15/1990

Order Number: PB90-272 063 Order Form: NTIS

Vayamos de Compras Verdes (Spanish Translation of *Let's Go Green Shopping*)

Anima a la juventud que conserve recursos, ahorra energía, y previene la basura comprando los productos que son energía eficiente, utilizado o reutilizable, hecho con contenido reciclada, reciclable, y no tenga ningún empaquetado o empaquetado reducido. Enumera recursos. Incluido en *Su Vida, Su Mundo, Sus Opiniones: Todo Lo Que Haga Puede Hacer una Diferencia Kit*.

15/08/2004

Número de pedido: EPA530-K-04-003S
Formulario de pedido: OSW

Voluntarios para el Cambio: Una Guía para el Servicio Comunitario Ambiental (Spanish Translation of *Volunteer for Change: A Guide to Environmental Community Service*)

Contiene ejemplos de proyectos voluntarios relacionado al manejo de los desperdicios solidos. Incluye información de contactos y recursos adicionales y también tiene un glosario de terminos. Esta disenado para una audiencia adulta que abarque estudiantes universitarios y personas mayores. Incluido en *Su Vida, Su Mundo, Sus Opiniones: Todo Lo Que Haga Puede Hacer una Diferencia Kit*.

15/01/2002

Número de pedido: EPA530-K-01-002S
Formulario de pedido: OSW

Volunteer for Change: A Guide to Environmental Community Service

Contains examples of volunteer projects related to solid waste management. Includes contact information as well as additional resources and a glossary of terms. Targeted to an adult audience ranging from college students to senior citizens. Also available in Spanish. Included in the *The Power of Change: Protecting the Environment for the Next Generation Kit* and in *Your Life, Your World, Your Choices: Everything You Do Can Make a Difference Kit*.

05/15/2001

Order Number: EPA530-K-01-002
Order Number: EPA530-K-01-002S **Order Form:** OSW

Waste Analysis at Facilities That Generate, Treat, Store, and Dispose of Hazardous Wastes; A Guidance Manual

Provides guidance to the regulated community, permit writers, and enforcement officials in establishing the criteria to properly evaluate and prepare RCRA waste analysis plans. Contains guidance on determining individual waste analysis responsibilities and how to meet these responsibilities. Includes facility-specific procedures for conducting waste analysis and developing a waste analysis plan, a checklist to ensure that all waste analysis responsibilities at individual facilities have been addressed, and facility-specific (i.e., generator, disposal, and onsite and offsite treatment facilities) model waste analysis plans. Appendices include hazardous waste identification, regulatory summary, waste analysis data flow responsibilities, regulatory citations for conducting waste analysis, overview of major hazardous waste management units, glossary of terms, and references.

(EPA530-R-94-024)

04/15/1994

Order Number: PB94-963 603

Order Form: NTIS

Waste Analysis Guidance for Facilities That Burn Hazardous Wastes; Draft

Provides guidance to facilities and EPA regional and state personnel regarding appropriate approaches to sampling and analyzing feed streams to ensure compliance with EPA requirements for waste analysis for hazardous waste combustion devices. Describes three alternatives for demonstrating compliance: batch analysis, qualification of a feed stream, and statistical analysis. Discusses regulatory requirements; waste analysis plans; sampling and analysis strategies; incomplete data, outliers, and detection limits; management of residues; and documentation to demonstrate compliance. Appendix contains table of K factors for calculation of tolerance limits.

10/15/1994

Order Number: EPA530-R-94-019

Order Form: OSW

Waste Management Area (WMA) and Supplemental Well (SPW) Guidance; Final

Provides guidance to RCRA permit writers and other interested parties regarding the implementation of waste management area and supplemental well approaches according to amendments proposed to the Subpart F rule on July 26, 1988. Contains proposed modifications to the model permit language to be used in implementing the waste management area and supplemental well approaches. Compares and contrasts the objectives and uses of waste management areas and corrective action management units.

(EPA530-R-93-022) 06/15/1993

Order Number: PB94-107 695 *Order Form: NTIS*

Waste Minimization: Environmental Quality with Economic Benefits

Focuses on EPA's waste minimization program under 1984 RCRA amendments. Describes general waste minimization practices and lists federal and state offices that can assist generators in initiating or expanding programs.

04/15/1990

Order Number: EPA530-SW-90-044 *Order Form: OSW*

Waste Minimization; Executive Summary

Recommends that generators should determine which waste minimization techniques are economically practicable and that EPA not specify requirements for waste minimization. EPA does plan to expand efforts in its proposed three-point waste minimization strategy. Strategy includes information gathering, core waste minimization program, and longer-term options.

10/15/1986

Order Number: EPA530-SW-86-041A *Order Form: OSW*

Waste Minimization for Selected Residuals in the Petroleum Refining Industry

Discusses source reduction and recycling techniques for selected residuals from the petroleum refining industry. Presents an overview of the petroleum refining industry, process diagrams, and descriptions for 29 residuals and source reduction options. Provides an evaluation of the quantity and quality of waste minimization information for each source.

(EPA530-R-96-009) 12/15/1996

Order Number: PB957-121 180 *Order Form: NTIS*

Waste Minimization in Metals Parts Cleaning

Offers significant and often cost-effective opportunities to reduce emissions and discharges of toxic pollutants. General strategy for minimizing waste is presented. Gives insolvent cleaning, aqueous-based cleaning, and abrasive cleaning applications. Includes bibliography.

08/15/1989

Order Number: EPA530-SW-89-049 *Order Form: OSW*

Waste Not, Want Not: Feeding the Hungry and Reducing Solid Waste through Food Recovery

Designed as a resource guide to show businesses and state and local solid waste management programs how they can incorporate food recovery programs into their overall waste reduction strategies. Describes some of the prominent food recovery activities already taking place and suggests how a business, a state, or a municipality can support existing programs or begin new ones. Outlines key considerations relating to legal issues and food safety. Provides an overview of the food recovery and waste reduction hierarchy. Appendices include resources available on the Internet, state resource list, text of the Emerson Good Samaritan Food Donation Act, and citations for state Good Samaritan laws.

12/15/1999

Order Number: EPA530-R-99-040 *Order Form: OSW*

Waste Prevention: It Makes Good Business Sense (Brochure)

Describes how minimizing waste maximizes profits. Defines waste prevention and lists its benefits. Lists some approaches to waste prevention. Includes an order form for additional information.

09/15/1993

Order Number: EPA530-F-93-008 *Order Form: OSW*

Waste Prevention Pays Off: Companies Cut Waste in the Workplace

Describes the successful waste prevention efforts of a large computer firm, a defense contractor, an ice cream company, and a variety of other businesses. Organized according to basic waste prevention strategies: using or manufacturing minimal or reusable packaging; using and maintaining durable equipment and supplies; reusing products and supplies; reducing the use of hazardous components; using supplies and materials more efficiently; composting yard trimmings on site; exchanging, selling, or giving away unneeded goods or materials; and eliminating unnecessary items. Outlines the benefits of waste prevention for businesses: economic advantages, enhanced corporate image, improved employee morale, and compliance with local or state solid waste requirements.

09/15/1993

Order Number: EPA530-K-92-005 **Order Form:** OSW

Waste Prevention, Recycling, and Composting Options: Lessons From 30 Communities

Analyzes the actual operating experience of 30 diverse communities—some with high materials recovery rates, others with model waste reduction initiatives and draws lessons for communities wanting to strengthen their own programs. Examines demographic and materials generation and recovery levels. Discusses waste-prevention strategies and comprehensive source-separation composting programs. Addresses improving residential, commercial and institutional recovery levels and targeting construction and demolition debris for recovery. Analyzes the costs of recycling and composting. Appendices include data definitions and methodology, community contacts, waste generation calculations, procurement, and Guelph, Ontario's wet/dry collection system.

02/15/1994

Order Number: EPA530-R-92-015 **Order Form:** OSW

Waste Reduction Activities of Selected WasteWi\$e Partners: Electric Power Industry

Describes some of the most effective and innovative solid waste reduction activities implemented by the electric utility industry, based onsite visits, interviews, and literature reviews. Details the numerous waste prevention, recycling, and buy recycled programs implemented by many utilities. Highlights factors influencing the decision-making process within the utility industry, approaches utility solid waste and recycling managers are taking to overcome barriers and obstacles, and efforts being undertaken to find waste reduction solutions for several difficult solid waste streams. Organized according to functional areas in which waste is generated at utilities: generation, distribution and transmission, warehouse, fleet, and administrative offices. Appendix profiles WasteWi\$e utility partners.

08/15/1994

Order Number: EPA530-R-97-017 **Order Form:** OSW

Waste Reduction Tips for Hotels and Casinos in Indian Country

Discusses the economic advantages of waste prevention. Lists steps for starting a waste reduction program. Provides a checklist and tips for reducing waste. Includes success stories.

04/15/2000

Order Number: EPA530-F-00-007 **Order Form:** OSW

Waste Transfer Stations: A Manual for Decision-Making

Defines waste transfer stations and discusses why they are needed. Addresses planning and siting a transfer station, public involvement, design and operation, environmental issues (traffic, noise, odors), safety issues, facility oversight, applicable regulations, and common regulatory compliance methods. Appendix provides state transfer station regulations. Includes references and a glossary of terms and acronyms.

06/15/2002

Order Number: EPA530-R-02-002 **Order Form:** OSW

Waste Transfer Stations: Involved Citizens Make the Difference

Defines what a waste transfer station is. Provides information to develop opinions about a proposed or modified transfer station. In addition, the booklet suggests ideas on how to get involved to enhance the value of a waste transfer station. Answers frequently asked questions as well as provides additional resources and contacts.

01/15/2001

Order Number: EPA530-K-01-003 Order Form: OSW

WasteWise: Climate Benefits from Reducing Waste

Describes the WasteWise Program. Explains how WasteWise helps reduce greenhouse gas emissions. Also available in the kit folder *Climate Change and Waste*. Updates the 1999 fact sheet.

03/15/2003

Order Number: EPA530-F-03-009 Order Form: OSW

WasteWise: 2002 Progress Report

Examines the innovations of WasteWise partners in the eighth year of the program. Announces the 2002 award winners and describes their approaches to reducing waste. Includes an index of articles by member name.

09/15/2002

Order Number: EPA530-R-02-015 Order Form: OSW

WasteWise 2003: Celebrating our Partners

Annual progress report featuring WasteWise Hall of Fame members: Public Service Enterprise Group (PSEG), Virco Mfg. Corporation, and Eastman Kodak Company. Includes examples of what the WasteWise 2003 Partners of the Year in each category are doing to reduce waste. Lists Program Champions and Honorable Mentions.

10/15/2003

Order Number: EPA530-R-03-014 Order Form: OSW

WasteWise: Fifth-Year Progress Report

Examines the WasteWise program's fifth year and shares the results achieved by WasteWise partners in 1998. Describes waste reduction results since the program's inception in 1994. Contains graph showing WasteWise partner growth from 1994 through June 1999. Highlights 1999 Partners of the Year and their accomplishments in waste prevention, recycling collection, and buying or manufacturing recycled content products in 1998.

08/15/1999

Order Number: EPA530-R-99-035 Order Form: OSW

WasteWi\$: First-Year Progress Report

Describes the WasteWise program's first year and shares the results achieved by WasteWise partners in 1994. Includes sections on solid waste reduction; industry sectors represented by WasteWi\$e partners; and measuring success in waste prevention, recyclables collection, and purchase or manufacture of recycled products. Provides data and specific examples. Outlines WasteWise program services and what it takes to become a WasteWise partner.

09/15/1995

Order Number: EPA530-R-95-044 Order Form: OSW

WasteWi\$: Second-Year Progress Report

Describes the WasteWi\$e program's second year and shares the results achieved by WasteWi\$e partners in 1995. Includes sections on waste prevention, innovations in office waste prevention, recyclables collection, and purchase or manufacture of recycled products. Provides data and specific examples. Outlines WasteWise program services and what it takes to become a WasteWise partner.

09/15/1996

Order Number: EPA530-R-96-016 Order Form: OSW

WasteWise Seventh-Year Progress Report

Details waste reduction results for the WasteWise program's seventh year. Describes the success of Resource Management, a waste reduction technique, introduced during the year. Includes success stories. Reports on accomplishments of award winners, including Eastman Kodak Company, General Motors Corporation, and Verizon.

11/15/2001

Order Number: EPA530-R-01-019 Order Form: OSW

WasteWise Sixth-Year Progress Report

Details waste reduction results. Highlighting how WasteWise has reached new goals and how waste reduction protects the global climate. In addition, recycling collection and recycled-content purchases have increased. Reports on WasteWise membership and program accomplishments, including, those accomplishments made by Russel Corporation, Walt Disney World Corporation, and Ford Motor Company. Furthermore, recognizes the 2000 WasteWise award winners.

08/15/2000

Order Number: EPA530-R-00-007 Order Form: OSW

WasteWi\$: Third Year Progress Report: 1996

Examines the WasteWi\$e program's third year and shares the results achieved by WasteWi\$e partners in 1996. Describes how waste reduction works for everyone, including sections on working with suppliers, working with customers, reducing production waste, working with employees, and reducing waste with the community. Provides highlights of the 1996 to 1997 program membership increased by 50 percent, program stream-lined to make participation easier, partners recognized for ongoing commitment to waste reduction, increased opportunities for partner information exchange, and expanded communications with WasteWise partners. Lists new publications. Outlines future plans. Contains partner registration form.

11/15/1997

Order Number: EPA530-R-97-045 Order Form: OSW

WasteWi\$e Tip Sheet: Buying or Manufacturing Recycled Products

Defines "buying recycled" and recycled content terms. Discusses the benefits of buying or manufacturing goods with recycled content. Addresses how the purchase of recycled products and recovered raw materials fits into EPA's WasteWi\$e program. Lists types of products available with recycled content. Treats cost and quality of recycled products and recovered raw materials. Cites sources of additional information.

01/15/1994

Order Number: EPA530-F-94-005 Order Form: OSW

WasteWi\$e Tip Sheet: Facility Waste Assessments

Defines waste assessments and purposes for conducting them. Addresses how waste assessments fit into EPA's WasteWi\$e program. Discusses the different types of waste assessments and how a waste assessment helps in selecting and implementing waste reduction actions. Lists sources of additional information.

01/15/1994

Order Number: EPA530-F-94-006 Order Form:

WasteWi\$e Tip Sheet: Recycling Collection

Defines recycling and the benefits of collecting recyclables. Addresses how recycling fits into EPA's WasteWi\$e program. Lists materials that can be recycled. Discusses how to get started, locating buyers for recycled materials, setting up a good collection program, educating employees, and monitoring and evaluating the collection program. Lists additional sources of information.

01/15/1994

Order Number: EPA530-F-94-004 Order Form: OSW

WasteWi\$e Tip Sheet: Waste Prevention

Defines waste prevention and its benefits. Addresses how waste prevention fits into EPA's WasteWi\$e program. Provides some examples of waste prevention. Offers examples of waste prevention opportunities available to most companies. Lists additional sources of information.

01/15/1994

Order Number: EPA530-F-94-003 Order Form: OSW

WasteWi\$e Tip Sheet: WasteWise Program Road Map

Describes EPA's WasteWi\$e program. Explains how to participate in the WasteWi\$e program and describes the assistance offered by EPA to participants.

01/15/1994

Order Number: EPA530-F-94-002 Order Form: OSW

WasteWi\$e Update (Issue #1)

Features waste reduction experiences and thoughts from WasteWise member companies. Discusses waste prevention goals. Includes a form for the WasteWi\$e “Peer Exchange” program.

12/15/1994

Order Number: EPA530-N-94-006 Order Form: OSW

WasteWi\$e Update (Issue #2): A Fresh Look at Packaging

Features waste reduction activities of the business community. This issue focuses on packaging reductions. Provides case studies, a sampling of WasteWi\$e packaging goals, and efforts to reduce packaging at every step of the manufacturing process, from raw materials delivery to the transportation of products to customers. Includes a list of organizations providing resources.

05/15/1995

Order Number: EPA530-N-95-004 Order Form: OSW

WasteWi\$e Update (Issue #3): Measuring Waste Reduction

Focuses on measuring waste reduction. Includes articles on making “cents” of waste prevention measurement, how General Motors meets the measurement challenge, highlights of the successes of specific companies, slimming down waste by reducing bulk mail, measurement software, approaches to collecting data, and Kodak’s and Polaroid’s activities in waste reduction.

09/15/1995

Order Number: EPA530-N-95-006 Order Form: OSW

WasteWi\$e Update (Issue #4): Employee Education

Focuses on employee education. Includes articles on the ABC’s of employee education, examples of how some companies are educating employees, awards and recognition, and educating suppliers and customers. Contains a tip sheet for WasteWi\$e employee education with a waste prevention checklist.

01/15/1996

Order Number: EPA530-N-96-001 Order Form: OSW

WasteWi\$e Update (Issue #5): Going Paperless with Technology

Focuses on reducing paper through the use of electronic technology such as computerized documents and filing systems, CD-ROM electronic data interchange, and CD-ROM and other interactive tools. Provides an overview of common elements of electronic data interchange programs, including start-up costs, implementation costs, payback periods, and benefits. Includes case studies. Contains information on electronic availability of WasteWi\$e program resources.

06/15/1996

Order Number: EPA530-N-96-007 Order Form: OSW

WasteWi\$e Update (Issue #6): Remanufactured Products: Good as New

Focuses on remanufactured products. Assists WasteWi\$e partners in becoming knowledgeable about the variety of remanufactured goods available and introduces issues to consider when purchasing them. Lists remanufacturing trade associations and related businesses. Includes furniture, toner cartridges, copiers, medical sensors, street lights, and tires.

05/15/1997

Order Number: EPA530-N-97-002 Order Form: OSW

WasteWi\$e Update (Issue #7): Donation Programs: Turning Trash Into Treasures

Focuses on donation programs. Describes how donation is an important waste prevention strategy, since it eliminates the need for the purchase and manufacture of new products and helps prevent the disposal of materials into landfills. Provides examples of WasteWi\$e partner donation programs. Contains articles on the donation of medical supplies, the “growth” of artificial reefs through the donation of used utility poles and an old football stadium, and educating others through corporate donations. Includes the insert Donation and Reuse: Resource Listing.

08/15/1997

Order Number: EPA530-N-97-005 Order Form: OSW

Order Number: EPA530-N-97-005a [Insert]

WasteWi\$e Update (Issue #8): Closing the Loop

Focuses on purchasing and manufacturing recycled-content products as a companion activity to recycling. Discusses starting a buy-recycled program. Addresses the myths about recycled-content products—high cost, inferior quality, difficulty in locating. Provides a sampling of the recycled-content products currently available. Gives examples of several state and local government WasteWi\$e partners' programs for purchasing products with recycled content. Examines company agreements to purchase products manufactured with the company's own materials collected for recycling. Includes the insert Buy-Recycled Resource Listing (also available separately).

12/15/1997

Order Number: EPA530-N-97-008 Order Form: OSW

Order Number: EPA530-N-97-008a [Insert]

WasteWise Update (Issue #9): Building Supplier Partnerships

Addresses waste received from suppliers in the form of excess packaging, rejected products, and inventory that expires before it is used. Discusses strategies for convincing suppliers to reduce packaging or change distribution systems. Provides the key steps for a successful project: investigating the options, finding time and dedicated personnel, and involving all departments and vendors early. Contains success stories. Includes list of publications and Internet resources.

04/15/1998

Order Number: EPA530-N-98-003 Order Form: OSW

WasteWise Update (Issue #10): Extended Product Responsibility

Discusses and defines design for the environment, supply chain and industry partnerships, leasing, and take-back programs. Provides examples of companies providing EPR. Lists resources—publications, national organizations and programs, and web sites.

10/15/1998

Order Number: EPA530-N-98-007 Order Form: OSW

WasteWise Update (Issue #11): The Measure of Success—Calculating Waste Reduction

Discusses the benefits of measurement. Describes how to measure waste reduction, including selecting the right measurement approach, establishing a baseline, collecting data, and calculating results. Also details how to assess the cost savings, environmental impact, and hidden benefits of waste reduction. Includes resources.

07/15/1999

Order Number: EPA530-N-99-003 Order Form: OSW

WasteWise Update (Issue #12): Recovering Organic Wastes—Giving Back to Mother Nature

Addresses recovering organic wastes, including composting, grasscycling, and food donation. Describes the various methods of composting. Includes success stories and a list of resources.

09/15/1999

Order Number: EPA530-N-99-007 Order Form: OSW

WasteWise Update (Issue #13): Moving Toward Sustainability

Focuses on the continuum of sustainability approaches: examines material flows within an organization; explores the flow of material resources among a network of organizations; and discusses the ultimate goal of sustainability, a socioeconomic system in which resources are cycled through the system to sustain future generations. Describes the evolution of environmental thinking from end-of-pipe pollution control solutions to the concepts of industrial ecology and sustainability. Features examples of WasteWise partners who have made commitments toward becoming sustainable businesses.

03/15/2000

Order Number: EPA530-N-00-002 Order Form: OSW

WasteWise Update (Issue #14): Electronics Reuse and Recycling

Focuses on the reuse and recycling of electronics. Explains why used electronics represent a concern. Describes the benefits of electronics reuse and recycling. Details what you should know before donating or recycling electronics. Tells how to purchase long-life electronics. Explains how to manage, repair, donate, and extend the product life spans. Gives opportunities for manufacturers to minimize electronics waste. And, describes what actions governments are taking. In addition, provides additional resources for electronic waste management.

10/15/2000

Order Number: EPA530-N-00-007 Order Form: OSW

WasteWise Update (Issue #15): Environmentally Preferable Purchasing

Defines environmentally preferable purchasing (EPP) as the consideration of environmental attributes of products and services prior to purchase. Identifies the environmental and economic benefits of EPP, describes how to establish and maintain an EPP program, and provides EPP examples. Includes resources.

07/15/2001

Order Number: EPA530-N-01-002 Order Form: OSW

WasteWise Update (Issue #16): Building for the Future

Addresses resource efficient building, which emphasizes the reduction of construction and demolition debris; incorporation of waste prevention, durability, and recyclability into building design; and the use of resource-efficient building materials. Provides an overview of resource-efficient and green buildings and a comprehensive list of resources.

02/15/2002

Order Number: EPA530-N-02-003 Order Form: OSW

WasteWise Update (Issue #17): Resource Management: Strategic Partnerships for Resource Efficiency

Defines resource management as a strategic alternative to traditional disposal contracting that emphasizes and rewards resource efficiency (i.e., prevention, reuse, recycling) rather than waste disposal. Highlights tactics and performance of resource management contracting by three WasteWise partners.

03/15/2002

Order Number: EPA530-N-02-002 Order Form: OSW

WasteWise Update (Issue #18): Global Warming...Is a Waste!

Addresses how EPA is incorporating climate change education and technical assistance into the WasteWise program. Discusses the connection between climate and waste. Provides examples of what actions corporations, states and communities are taking. Describes the Waste Reduction Model (WARM) used to calculate the cooling effects of waste reduction. Includes resources.

09/15/2002

Order Number: EPA530-N-02-007 Order Form: OSW

WasteWise Update (Issue #19): Environmental Management Systems

Provides an overview of environmental management systems (EMSs), Describes the four phases: Plan (identify environmental aspects and establish goals), Do (train employees and establish operational controls), Check (monitor and evaluate progress), Act (review progress and make corrective actions). Shares lessons learned and best practices of some WasteWise partners. Includes resources.

01/15/2003

Order Number: EPA530-N-03-002 Order Form: OSW

Water Quality in Open Pit Precious Metal Mines

Documents the current level of understanding of issues concerning pit water quality and determines where additional research is needed. Discusses factors contributing to pit water quality: ground water flow, water-wall rock reactions (flow in structures and sloughing of wallrocks), acid versus alkaline pit water (the acid forming process, neutralization, evaluation of potential for acid production, and mitigation of acid mine drainage), trace elements, arsenic speciation, evapoconcentration, and hydrothermal activity. Examines existing pit lakes at mines for phosphate, uranium, coal, copper, silver, and gold and looks at the effects of pit water quality on life. Addresses reclamation.

(EPA530-R-95-011) 02/15/1994

Order Number: PB95-191 243 **Order Form: NTIS**

*What on Earth Can You Do with an Old Jelly Jar? (Poster)

Poster depicts several ways to reuse an old jelly jar. At this time, this publication is only available on OSW's web site at <www.epa.gov/epaoswer/osw/kids/pdfs/jjposter.pdf>.

07/15/1999

Order Number: EPA530-H-99-001 **Order Form: OSW**

Why Waste a Fleet? Just Use a Sheet (Poster)

Encourages responsible photocopying, two-sided photocopying, and making only the number of copies needed.

04/15/1994

Order Number: EPA530-H-94-001 **Order Form: OSW**

Will a Source Reduction Program Work in Your Community?

Defines source reduction and discusses its importance. Describes EPA's *Source Reduction Program Potential Manual* and *ReduceIt* software and provides ordering information for it.

01/15/1999

Order Number: EPA530-F-99-007 **Order Form: OSW**

WIN/INFORMED: Universe Identification, Waste Activity Monitoring, Program Area Analysis; Final Report

Describes the background to the Waste Information Needs/Information Needs for Making Informed Decisions (WIN/INFORMED) initiative and the combined Universe Identification and Waste Activity Monitoring Program Area Analysis, including the scope of the project and the participating organizations. Presents the findings from the project's analysis and provides recommendations on how the existing information collection and management procedures should be improved and streamlined. Addresses how access to Resource Conservation and Recovery Act (RCRA) program information should be enhanced to be able to respond to the types of questions typically asked by or of program staff. Includes glossary and appendices.

(EPA530-R-00-004) 01/15/2000

Order Number: PB2000- 105 260 **Order Form: NTIS**

Yard Waste Composting: A Study of Eight Programs

Focuses on composting yard waste which has potential as an MSW management option in the United States. Highlights eight programs, with program locations noted on map.

(EPA530-SW-89-038) 04/15/1989

Order Number: PB90-163 114 **Order Form: NTIS**

You Can Make a Difference: Learn about Careers in Waste Management

Flyer describing career opportunities in waste management. Addresses community service, student employment, internships, and advanced education. Describes the activities of the Office of Solid Waste and OSW's career page on its web site. Explains how to access EPA's EZhire on the Internet. Also available in Spanish. Included in the *Your Life, Your World, Your Choices: Everything You Do Can Make a Difference Kit*.

02/15/2003

Order Number: EPA530-F-02-011

Order Number: EPA530-F-02-011S **Order Form: OSW**

You Dump It, You Drink It

Poster designed for service stations. Encourages customers who change their own motor oil to dispose of it properly. In Spanish on reverse side.

02/15/2003

Order Number: EPA530-H-02-003 Order Form: OSW

You Dump It, You Drink It: Recycle Used Motor Oil

Flyer for consumers who change their own motor oil. Describes how to properly dispose of used oil. Also available in Spanish. Included in the *The Power of Change: Protecting the Environment for the Next Generation Kit*

02/15/2003

Order Number: EPA530-F-02-027

Order Number: EPA530-F-02-027S Order Form: OSW

Your Life, Your World, Your Choices: Everything You Do Can Make a Difference Kit

Kit containing materials to help teens learn about the environmental impacts of products they use in their everyday lives, initiate school or community reuse and recycling programs, find and participate in environmental volunteer and service-learning opportunities, and pursue environmental careers. Includes: *Be Waste Aware—Waste Reduction Resources and Tools for Students*, *Got Your Driver's License? You Can Make a Difference*, "Greenscaping" *Your Lawn and Garden*, *Reuse + Recycling = Waste Reduction: A Guide for Schools and Groups*, *Let's Go Green Shopping*, *The Life Cycle of a CD or DVD*, *The Life Cycle of a Cell Phone*, *The New Wave in Electronics: eCycling (Reuse or Recycle Old Electronics)*, *Science Fair Fun*, *Service Learning: Education Beyond the Classroom*, *Volunteer for Change: A Guide to Environmental Community Service*, and *You Can Make a Difference: Learn About Careers in Waste Management*. Kit is also available in Spanish.

02/15/2003

Order Number: EPA530-E-03-001 Order Form: OSW

Your Life, Your World, Your Choices: Everything You Do Can Make a Difference Kit Order Form

Briefly describes the *Your Life, Your World, Your Choices: Everything You Do Can Make a Difference Kit* for teens. Provides instructions for ordering and an order form.

05/15/2003

Order Number: EPA530-F-03-013 Order Form: OSW