

Land Disposal

EPA Category Number 60



NPS
DELAWARE

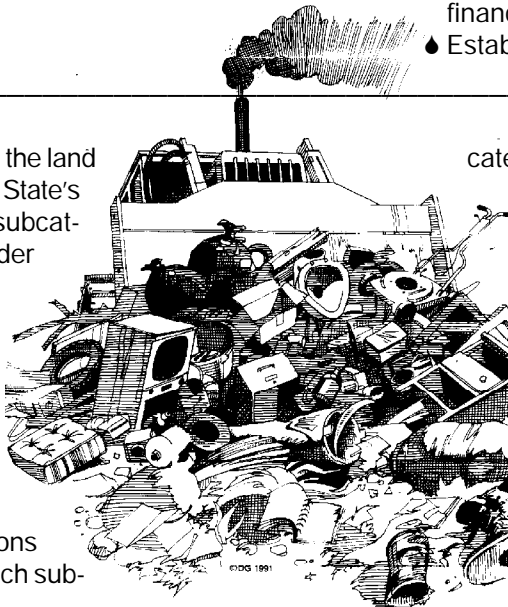
GOAL

To conserve land and water resources in an economically viable and environmentally sensitive manner, the following areas will be addressed:

- ◆ Promote beneficial re-use of waste materials;
- ◆ Educate waste producers, operators, and the public in general in methods of pollution prevention, waste identification and management, waste reduction, and water conservation;

INTRODUCTION

This NPS Category addresses the land disposal of wastes that degrade the State's surface and ground waters. The subcategories specifically addressed under this category include the following: 1) #61 and #62 Land Application of Sludge and Wastewater; 2) #63 Landfills; 3) #65 On-Site Wastewater Systems; and 4) #66 Hazardous Wastes. Specific information pertaining to each of the subcategories referenced above can be found in the individual sections following this category section. Each sub-



- ◆ Identify areas where the Department of Natural Resources and Environmental Control (DNREC) can streamline the regulatory process;
- ◆ Enhance interdepartmental coordination and collaboration as well as achieve internal regulatory consistency;
- ◆ Evaluate graywater utilization;
- ◆ Identify staffing and resource requirements and seek financial assistance; and
- ◆ Establish a cross-training program for DNREC staff

category section contains a synopsis of the pollution problems and what is currently being done to address these concerns. Also, each subcategory contains a table that outlines the objectives/milestones that management agencies will implement to reduce these sources of nonpoint source pollution. Please note: Subcategory #65 On-Site Wastewater Systems also contains a section which addresses the Coastal Nonpoint Pollution Control Program (6217), as it is the only subcategory under this category that is impacted by the 6217 EPA Guidance Document.

MANAGEMENT AGENCIES FOR IMPLEMENTATION

DNREC, Division of Air and Waste Management, Waste Management Section, Hazardous Waste Management Branch - The branch is responsible for protecting public health and the environment by ensuring the state's generated hazardous waste is appropriately managed. The program also maintains a program of corrective action to address releases of hazardous constituents at the site's of permitted hazardous waste facilities.

- ◆ **Technical Assistance -**
 - ◆ Staff the Hazardous Waste Help-Line which offers regulatory information and interpretation on hazardous waste management issues including disposal of household hazardous waste;
 - ◆ Conduct on-site audits for new hazardous waste generators and provide compliance assistance;
 - ◆ Provide technical information and brochures on industry specific issues including waste minimization.
- ◆ **Education Programs -**
 - ◆ Offers educational programs for all hazardous

waste generators; and

- ◆ Provides classroom instruction at technical schools.

DNREC, Division of Air and Waste Management, Waste Management Section, Solid Waste Management Branch - This branch is responsible for issuing permits and approvals for solid waste transportation, resource recovery and waste disposal. It evaluates waste disposal which may be illegal, unauthorized or present a threat to human health or safety or to the environment. Promotes waste recycling and reuse. Assisting business, industry and homeowners in identifying measures to reduce waste is the responsibility of the Pollution Prevention Program.

- ◆ **Technical Assistance -**
 - ◆ Work with engineers, environmental consultants, industry staff, the Delaware Solid Waste Authority, developers/contractors and homeowners to implement and maintain compliance with waste regulations and the laws of Delaware.



MANAGEMENT AGENCIES FOR IMPLEMENTATION continued

◆ Education Programs -

- ◆ Conducts outreach programs on waste recycling and reuse, and provides presentations to groups on waste management issues upon request.

DNREC, Division of Water Resources, Surface Water Discharges Section, General Permits Branch & Ground Water Discharges Section, Large Wastewater Systems Branch - both branches are responsible for guiding and regulating the beneficial reuse of treated wastewater and processed sludges in a manner that will not contribute to the degradation or loss of use of any lands or waters of the State of Delaware.

◆ Technical Assistance -

- ◆ The branch provides assistance to design engineers, municipalities, developers, industrial managers, and the general public.

◆ Education Programs -

- ◆ The branch provides training and education to designers, municipalities, industrial managers, developers, operators, and the general public by conducting workshops and public hearings, by holding information meetings, and by providing classroom training; and
- ◆ Slides, overheads, videos, and printed handouts are used as training aids.

DNREC, Division of Water Resources, Underground Discharges Branch Program - On-Site Wastewater Disposal - This Branch is responsible for regulating the installation, operation and maintenance of on-site wastewater disposal systems. This program includes licensing of the private sector, as well as assisting and educating business, industry and the public.

◆ Technical Assistance -

- ◆ Technical assistance is provided by the Branch to: National On-Site Recycling Association, Small Flow Clearinghouse, and Water Pollution Control Federation.

◆ Education Programs -

- ◆ The Branch and other state agencies, as well as regional and national on-site wastewater associations provide training and education to business, industry, and the public through literature circulation, classes at schools and universities and workshops.

BEST MANAGEMENT PRACTICES AND/OR BEST AVAILABLE TECHNOLOGY:

- ◆ Regulations Governing the Design, Installation, and Operation of On-Site Wastewater Treatment and Disposal Systems
- ◆ Cooperative Extension Service Bulletins #126 and 127

- ◆ EPA Design Manual for On-Site Wastewater Treatment and Disposal Systems
- ◆ Guidance and Regulations Governing the Land Treatment of Wastes and its appendices
- ◆ EPA Process Design Manual - Land Application of Sewage Sludge and Domestic Septage

STATE AUTHORITY (STATUTES AND/OR REGULATIONS):

7 Del.C. Chapter 60 - Environmental Control

- ◆ Delaware Regulations Governing Solid Waste, Adopted December 1988, amended 11/89, 12/89, 3/90, 1/91 and 4/91, 12/94 and 4/99 (projected).
- ◆ Delaware's Regulations Governing the Design, Installation and Operation of On-Site Wastewater Treatment and Disposal Systems, effective 1/5/85, amended 7/28/86.
- ◆ Regulations Governing the Control of Water Pol-

lution, adopted 3/15/74, amended 6/23/83.

- ◆ The Guidance and Regulations Governing the Land Treatment of Wastes, adopted 8/88, revised 9/92, amended 6/94.
- ◆ Regulations Governing Licensing Operators of Wastewater Facilities, adopted 12/28/77, revised 1/1/88.



STATE AUTHORITY (STATUTES AND/OR REGULATIONS) con't: _____

7 Del.C. Chapter 63 - Hazardous Waste Management

- ◆ Delaware Regulations Governing Hazardous Waste, adopted 10/28/80, last amended 8/21/97.
- ◆ Regulations Governing the Location of Hazardous Waste Storage, Treatment and Disposal Facilities, effective 8/1/91.

7 Del.C. Chapter 64 - Delaware Solid Waste Authority

7 Del.C. Chapter 77 - Extremely Hazardous Substances Risk Management Act

- ◆ Regulations for the Management of Extremely Hazardous Substances, adopted 9/15/89

7 Del.C. Chapter 78 - Waste Minimization/Pollution Prevention Act

FEDERAL REGULATIONS: _____

◆ **Resource Conservation and Recovery Act** (RCRA)

◆ **40 CFR, Parts 257 and 258** - Solid Waste Disposal Facility Criteria

◆ **40 CFR, Part 503** - Standards for the Use or Disposal of Sewage Sludge

◆ **40 CFR, Parts 260 through 270**