

4.3 SOLID AND HAZARDOUS WASTE MANAGEMENT

INTRODUCTION

The Town of Dennis, and the Cape as a whole, faces the challenge of managing its solid and hazardous waste in an environmentally sound manner at the same time that other priorities compete for attention and scarce funding.

Environmental regulations and their enforcement are bringing about increasingly sophisticated waste management facilities, as well as more complicated administrative arrangements, to assure regulatory compliance and environmental integrity. In addition, the townspeople of Dennis support efforts to protect the environment from impacts of improper waste disposal, while continuing to work towards economical and inventive ways to properly manage its municipal solid waste.

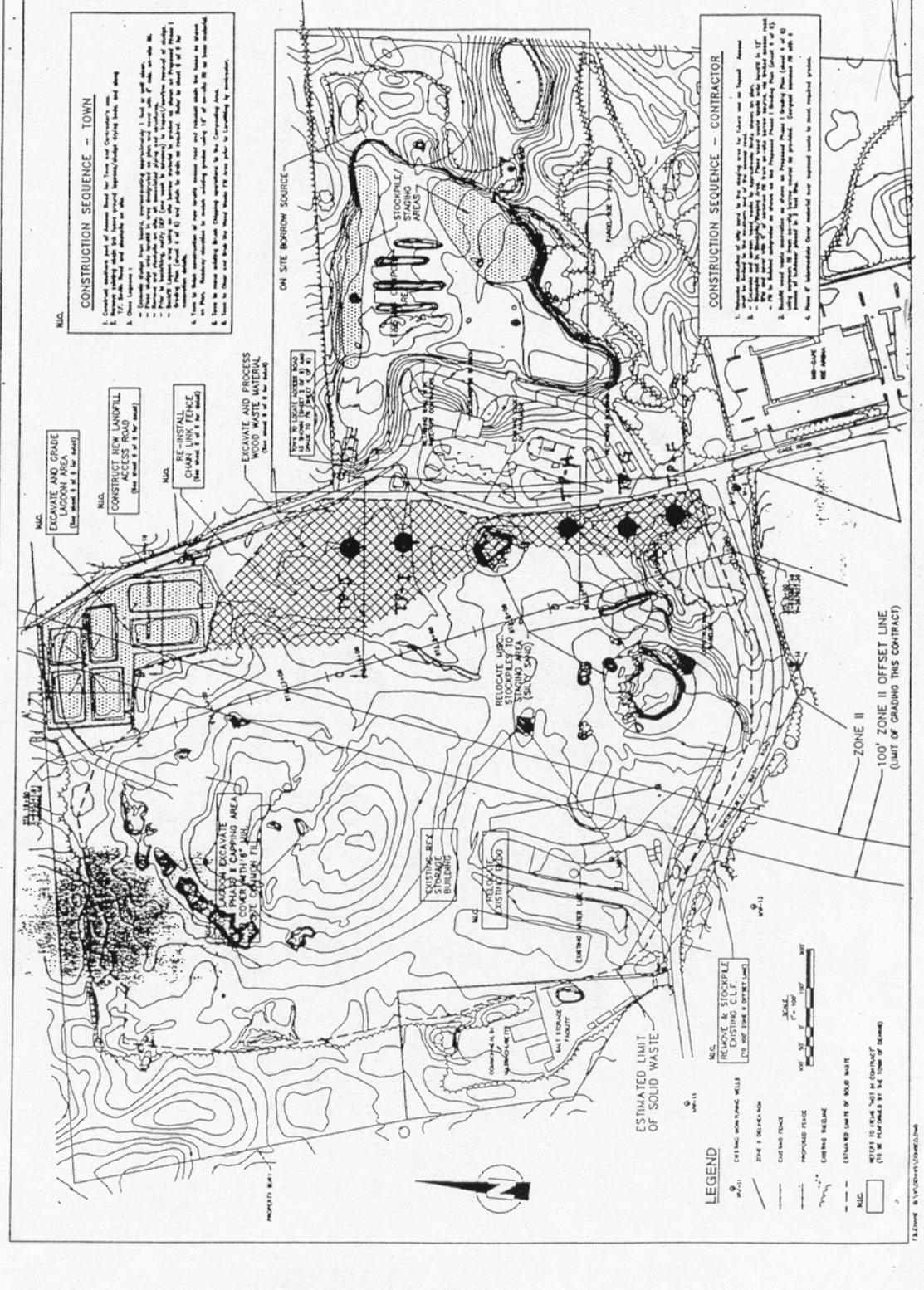
INVENTORY AND ANALYSIS

The Town of Dennis, acting through its Department of Public Works, operates a Commonwealth of Massachusetts Department of Environmental Protection (MADEP) permitted Solid Waste Transfer Station and Recycling Center at the intersection of Theophilus F. Smith Road and South Gage's Way, in the Village of South Dennis.

The facility is located within an industrially zoned area that borders commercial construction operations. The existing Transfer Station consists of two (2) bay garage type structures with a lower entry that permits trailers to be directly dumped into by selected users. The Transfer Station is located adjacent to a capped but unlined municipal solid waste landfill that is approximately 34 acres. The building and its appurtenances are at the core of a site that contains approximately 145 acres. This site has received Town of Dennis Board of Health site approval for solid waste purposes. Maps 4.3.1 and 4.3.2 provide an illustration of the site locus and features. Information Sheet 4.3.1 summarizes the general requirements for Solid Waste Management Facilities as of May 2000 and defines materials restricted by 310 CMR 19.017 General Requirements Procedures and Permits for Solid Waste Management Facilities.

As the facility presently exists, all solid waste received is intended to originate solely from within the boundaries of the Town of Dennis. However, it is extremely difficult to track the origin of commercially collected municipal solid waste making it difficult to monitor or control. The Town requires the sorting and separating of all solid waste received into three basic groups: 1) Municipal Solid Waste (MSW); 2) Recyclable/Compostable; and 3) Landfillable (bulky) wastes.

As the facility is now solely a transfer or drop-off operation, waste is no longer disposed upon the premises but sorted, separated and hauled within various sized containers to a variety of end consumers.



CONSTRUCTION SEQUENCE - TOWN

1. Contract documents and of items listed for Town and Contractor's use.
2. Excavate and grade lagoon area (see sheet 4 of 6 for details).
3. Excavate and grade lagoon area (see sheet 4 of 6 for details).
4. Excavate and grade lagoon area (see sheet 4 of 6 for details).
5. Excavate and grade lagoon area (see sheet 4 of 6 for details).
6. Excavate and grade lagoon area (see sheet 4 of 6 for details).

CONSTRUCTION SEQUENCE - CONTRACTOR

1. Excavate and grade lagoon area (see sheet 4 of 6 for details).
2. Excavate and grade lagoon area (see sheet 4 of 6 for details).
3. Excavate and grade lagoon area (see sheet 4 of 6 for details).
4. Excavate and grade lagoon area (see sheet 4 of 6 for details).

EXCAVATE AND GRADE LAGOON AREA
(See sheet 4 of 6 for details)

CONSTRUCT NEW LANDFILL ACCESS ROAD
(See sheet 4 of 6 for details)

RE-INSTALL CURB
(See sheet 4 of 6 for details)

EXCAVATE AND PROCESS SOLID WASTE MATERIAL
(See sheet 4 of 6 for details)

ON SITE BORROW SOURCE
(See sheet 4 of 6 for details)

STOCKPILE/STAGING AREAS
(See sheet 4 of 6 for details)

RELOCATE EXISTING STOCKPILE TO EXISTING SLOPE (SLOPE LAND)
(See sheet 4 of 6 for details)

ESTIMATED LIMIT OF SOLID WASTE
(See sheet 4 of 6 for details)

ZONE II 100' ZONE II OFFSET LINE (LIMIT OF GRADING THIS CONTRACT)
(See sheet 4 of 6 for details)

LEGEND

- REMOVE & STOCKPILE EXISTING CLF (TO BE REINSTALLED)
- EXISTING CONCRETE WALLS (TO BE DEMOLISHED)
- ZONE II OFFSET LINE
- CONTRACTOR FENCE
- PROPOSED FENCE
- CONTRACTOR RECORD
- ESTIMATED LIMIT OF SOLID WASTE
- NOT TO BE INSTALLED BY CONTRACTOR (TO BE PROVIDED BY TOWN OF DENNIS)
- M.G.

PROPERTY BOUNDARY
 1" = 100'
 1" = 50'
 1" = 25'
 1" = 10'
 1" = 5'
 1" = 2.5'
 1" = 1.25'
 1" = 0.625'
 1" = 0.3125'
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 1" = 0.078125'
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LEGEND

DEMOLITION & METAL DROP-OFF

- F - STUFFED FURNITURE (COUCHES/RECLINERS)
- CW - CLEAN WOOD ONLY (2'x4's, PLYWOOD, ETC.)
- M - NO PRESSURE TREATED WOOD (METAL ONLY)
- D - (APPLIANCES, BIKES, GRILLS, ETC.) MIXED DEMOLITION (PRESSURE TREATED WOOD, SHEET ROCK, ROOF SHINGLES)
- DH - NO PAPER OR CARDBOARD DEMOLITION BIN (HANDICAP USE ONLY)

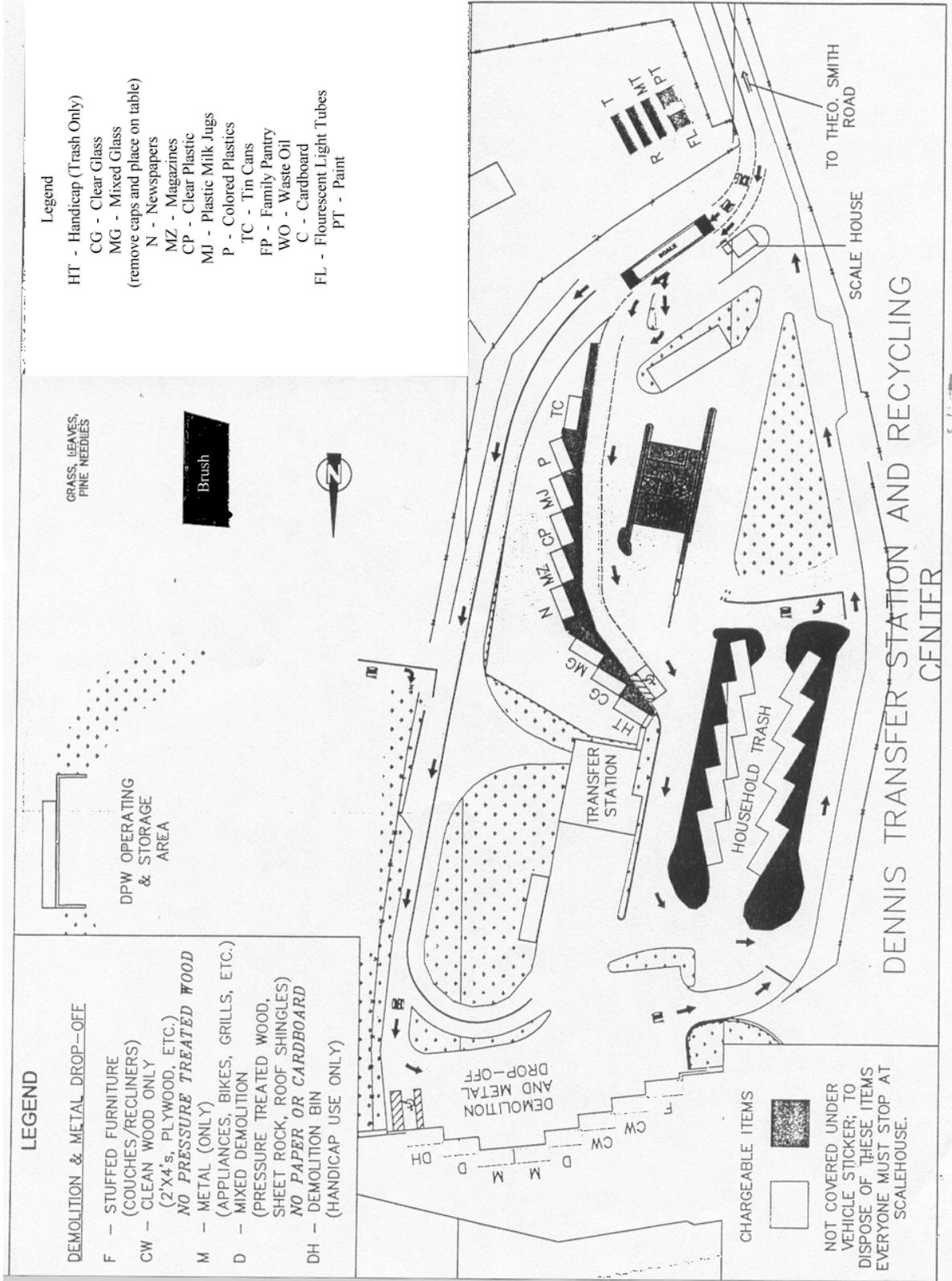
DPW OPERATING & STORAGE AREA

GRASS, LEAVES, PINE NEEDLES



Legend

- HT - Handicap (Trash Only)
- CG - Clear Glass
- MG - Mixed Glass (remove caps and place on table)
- N - Newspapers
- MZ - Magazines
- CP - Clear Plastic
- MJ - Plastic Milk Jugs
- P - Colored Plastics
- TC - Tin Cans
- FP - Family Pantry
- WO - Waste Oil
- C - Cardboard
- FL - Fluorescent Light Tubes
- PT - Paint



DENNIS TRANSFER STATION AND RECYCLING CENTER

CHARGEABLE ITEMS



NOT COVERED UNDER VEHICLE STICKER; TO DISPOSE OF THESE ITEMS EVERYONE MUST STOP AT SCALEHOUSE.

COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONE WINTER STREET, BOSTON, MA 02108 617-292-3500

ARGEO PAUL CELLUCCI
Governor

JANE SWIFT
Lieutenant Governor

BOB DURAND
Secretary

LAUREN A. LISS
Commissioner

Summary of Waste Ban Regulations

This document summarizes the waste control regulations pursuant to 310 CMR 19.017 of the General Requirements, Procedures and Permits for Solid Waste Management Facilities. These regulations are designed to conserve capacity at existing disposal facilities and stimulate recycling markets by diverting recyclable materials from the waste stream. They also restrict certain toxic materials that may adversely affect the environment when landfilled or incinerated.

These regulations apply to solid waste landfills, incinerators and transfer stations. It is the responsibility of the facility operator to ensure that no restricted materials above allowable quantities are accepted at the facility. Facilities should monitor their waste streams and randomly inspect trucks of waste for restricted materials. A facility may reject loads containing unacceptable amounts of recoverable restricted materials.

Definitions of Materials Restricted by 310 CMR 19.017:

- Glass Containers:** glass bottles and jars (soda-lime glass) but excluding light bulbs, Pyrex cookware, plate glass, drinking glasses, windows, windshields and ceramics.
- Metal Containers:** aluminum, steel or bi-metal beverage and food containers.
- Single Resin Plastics:** all narrow-neck plastic containers.
- Recyclable Paper:** all paper, cardboard, and paperboard products excluding tissue paper, toweling, paper plates and cups, wax-coated cardboard, and other low-grade paper products, which become unusable to paper mills as a result of normal intended use.
- Yard Waste:** grass clippings, weeds, garden materials, shrub trimmings, and brush 1" or less in diameter (excluding diseased plants).
- Leaves:** deciduous and coniferous leaf deposition.
- Batteries:** lead-acid batteries used in motor vehicles or stationary applications.
- White Goods:** appliances employing electricity, oil, natural gas or liquified petroleum gas to preserve or cook food, to wash or dry clothing, or to cool or heat air or water. These include refrigerators, freezers, dishwashers, clothes washers, clothes dryers, gas or electric ovens and ranges, and hot water heaters.
- Whole Tires:** motor vehicle tires of all types. Whole tires may be disposed at combustion facilities. Shredded tires (a tire which has been cut, sliced or ground into four or more pieces such that the circular form of the tire has been eliminated) are not restricted.
- Cathode Ray Tubes:** any intact, broken, or processed glass tube used to provide the visual display in televisions, computer monitors and certain scientific instruments such as oscilloscopes.

For more information regarding waste disposal restrictions, contact Joanne Bissetta at 617-348-4002

This information is available in alternate format by calling our ADA Coordinator at (617) 574-6872.

DEP on the World Wide Web: <http://www.mass.gov/dep>

 Printed on Recycled Paper

The Town receives its waste from both residents and commercial users. The fees are shown in Table 4.3.1. The Town is a drop-off community, because all solid waste is delivered to the facilities on a voluntary basis. The Town of Dennis does not presently offer municipal or franchise private curbside collection of any of the three basic groups of solid waste. Users are required to provide identification to access the facilities. Commercial collectors are required to obtain an annual license from the Town's Board of Health and residential users may choose to purchase a vehicle pass for their vehicles in order to access the transfer station or pay to dispose of trash on an as needed basis. As of 2001 the Transfer Station and Recycling Center operate on a 293 operating day schedule, 8:00 A.M. until 4:00 P.M (note the facility is closed on Tuesday and Thursday during the winter).

During 2000 operations, 10,990 tons of MSW were shipped to the SEMASS Partnership Waste-to-Energy Facility in Rochester, Massachusetts. Waste from the municipal transfer station is sent to this facility under a twenty-seven year agreement that will expire during 2015. It currently provides favorable disposal fees for the bulk of the solid waste generated within the Town. Recyclables (i.e. glass, plastic paper, etc.) are also shipped by the town to various recycling facilities within the Commonwealth and totaled 1399.33 tons. Compostables, such as leaves, grass clippings and vegetative organic matter accounted for 1393.0 tons. Landfilled wastes from the town are under agreement to be disposed of at the Town of Bourne Integrated Solid Waste Facility until June 30, 2002. Options beyond these time frames are being evaluated subject to MADEP permitting. Also these estimates do not capture all commercially generated MSW coming from Dennis.

It is likely future waste management systems will require additional sorting and separating of materials from the MSW and landfill waste streams. The Commonwealth has established stringent requirements that certain materials are banned from disposal. A list of the present waste ban materials is included in Informational Sheet 4.3.1.

The Town of Dennis' goal will be to decrease solid waste disposed of at the SEMASS Partnership and waste that is landfilled. It is also the town's overall goal to provide adequate recycling opportunities to reduce the amount of solid waste disposed of through cost effective and efficient methods.

The Town realizes that solid waste must be minimized by responsible means. This requires the producers of consumer goods to reduce unnecessary packaging, use recycled post consumer products in their manufacturing and packaging, and look to ways to reduce materials that are non-renewable.

The Town will continue to actively pursue community based solutions that are economically viable, will produce minimum adverse impact on the consumer yet will be environmentally responsible, and will endeavor to investigate regional and sub-regional solution to that end.

The Board of Health and the Dennis Water District each sponsor a Household Hazardous Waste Collection Day every year. Dennis homeowners can bring paints (except latex), varnish, acids, pesticides, disinfectants, mothballs or medicines and other materials to the

Table 4.3.1
TRANSFER STATION & RECYCLING CENTER FEES
 Effective May 1, 2000

All fees for use of the Dennis Transfer Station & Recycling Center shall be set by the Board of Selectmen and reviewed and/or adjusted as deemed necessary.

8.0	USER FEES – RESIDENTIAL	
8.1	Initial Pass (Residential/Household Trash)	\$80.00
	Second Pass, limited to one per Initial Pass	\$ 2.00
8.2	Usage Fees (Residential/Household Trash)	
	Household Trash (per bag/barrel without pass)	\$ 2.00
	Household Trash (loose) \$10.00 minimum/entry	\$52.90/ton*
9.0	LICENSED COMMERCIAL HAULERS (Commercial Trash)	
	SEMASS Acceptable Solid Waste \$10.00 Minimum/entry	\$52.90/ton*
10.0	BULKY WASTE – RESIDENTIAL/COMMERCIAL	
	Propane Tank (empty); Tire without rim [A.T.M., 5/2/00]	\$ 6.00
	Carpet (4' width, no more than 12" diameter, bound); Tire with rim; Twin mattress or box spring [A.T.M. 5/2/00]	\$10.00/each
	Full or larger Bed Mattress or Box Spring [A.T.M 5/2/00]	\$14.00/each
	Upholstered furniture; White Goods; Truck Tires [A.T.M. 5/2/00]	\$18.00/each
	Scrap metal, unshreddable, heavy, i.e., cast iron items \$5.00 minimum/entry	\$37.95/ton
	Scrap metal, shreddable, i.e., lightweight steel, bicycles, etc. \$5.00 minimum/entry	\$66.00/ton
	Demolition Debris/SEMASS unacceptable solid waste (maximum 4' long) \$10.00 minimum/entry	\$107.00/ton
	Yard Waste \$5.00 minimum/entry	\$67.00/ton
11.0	INOPERATIVE SCALE FEES	
	Household Trash, Metal, Yard Waste	\$ 6.00/cy
	Compactor trucks or containers; Demolition Debris	\$14.00/cy

*Effective date is July 1, 2000, then \$75.00/ton

collection day. In addition, one day each month from April through October the Town allows for the recycling of usable oil and latex paint products.

In 1974, the Dennis Board of Selectmen resolved to encourage recycling in businesses, schools and households in the interest of preserving natural resources, promoting general welfare of the inhabitants and reducing costs of operations. The Town has a Recycling Committee, appointed by the Board of Selectmen. The Committee is very active in its efforts to publicize and educate the town's people about recycling. They assist with elementary school projects and other community educational projects.

GOALS AND POLICIES

4.3.1 Goal: To manage solid waste using an integrated solid waste management system that includes waste reduction, recycling, composting, incineration and landfilling, and to divert 30% of municipal solid waste from incinerator and landfill facilities through recycling and composting programs by 2000, and 40% by 2005.

Minimum Performance Standards

4.3.1.1 Developments of Regional Impact shall address how the quantities and types of solid waste to be generated will be handled using the following integrated solid waste management system: The highest priority, and thus the most preferred method of waste management, is to reduce as much as possible the amount of solid waste created. The second priority is to recycle or compost waste that cannot be avoided. The third priority is to incinerate waste that cannot be recycled or composted, and finally to landfill only those wastes that cannot be recycled, composted or burned.

4.3.1.2 Development and redevelopment shall allocate adequate storage space for interim storage of materials to be recycled.

4.3.1.3 Construction and demolition debris from development and redevelopment shall be removed from construction sites and disposed of in accordance with the integrated solid waste management system in Section 4.3.1.1.

4.3.2 Goal: Hazardous waste generated by Cape Cod households and businesses shall be disposed of in an environmentally sound manner.

4.3.2.1 Development and redevelopment shall make reasonable efforts to minimize their hazardous waste generation through source reduction, reuse, material substitution, employee education and recycling.

4.3.2.2 Development and redevelopment shall comply with Massachusetts Hazardous Waste Regulations, 310 CMR 30.00.

4.3.2.3. Commercial and industrial development and redevelopment that involves the use, treatment, generation, storage or disposal of hazardous wastes or hazardous materials, with the exception of household quantities, shall not be allowed within Wellhead Protection Districts.

Other Development Review Policies

4.3.2.4 Development and redevelopment using or storing hazardous materials or wastes should prepared and maintain an emergency response plan which identifies potential environmental and health risks and recommends ways to reduce those risks. Such plans should be provided to local officials responsible for hazardous waste coordination.

IMPLEMENTATION

1. Promote the development of regional recycling efforts including inter-municipal processing and hauling arrangements.
Responsible Parties: DPW
Priority: M
Time Frame for Completion: 2005
2. Educate and assist residents, businesses, institutions and governments on source reduction of solid and hazardous wastes and the identification of products posing fewer disposal difficulties.
Responsible Parties: DPW, BOH
Priority: H
Time Frame for Completion: On-going
3. Encourage government, businesses, institutions and individuals to purchase goods made from recycled materials in order to increase the marketability of the recyclable materials they generate.
Responsible Parties: DPW, BOH
Priority: H
Time Frame for Completion: On-going
4. Publish an annual report of the quantities of solid waste that are recycled, composted, incinerated and landfilled.
Responsible Parties: DPW
Priority: M
Time Frame for Completion: On-going
5. Work with realtors, the chambers of commerce and tourism-related businesses to encourage recycling by vacationers and seasonal residents.
Responsible Parties: DPW
Priority: H
Time Frame for Completion: On-going
6. Work with other towns and the county to explore regional alternatives for the recycling or disposal of non-recyclable and non-combustible wastes such as construction and demolition material.
Responsible Parties: DPW
Priority: M
Time Frame for Completion: 2005

7. Continue to promote composting of yard wastes and household food wastes by homeowners, and will help disseminate information on composting in conjunction with the County Extension and DEP.
Responsible Parties: DPW, BOH
Priority: H
Time Frame for Completion: On-going
8. Adopt accounting methods which reflect all capital costs and operational expenses of municipal recycling and waste disposal services, and make it known to taxpayers what they are paying for these services.
Responsible Parties: DPW
Priority: M
Time Frame for Completion: On-going
9. Develop an integrated system of waste management that involves recycling, composting, incineration, and landfilling for dealing with municipal solid waste, bio-solids, and construction and demolition materials.
Responsible Parties: DPW
Priority: M
Time Frame for Completion: On-going
10. Adopt a toxic and hazardous materials bylaw or regulation, utilizing the County's model or similar regulations.
Responsible Parties: DPW, BOH, BOS
Priority: M
Time Frame for Completion: 2005
11. Continue to hold household hazardous waste collection events for solvents, pesticides and other hazardous wastes and establish other programs at transfer stations for paint wastes and oil.
Responsible Parties: DPW, BOH
Priority: M
Time Frame for Completion: On-going
12. Develop and maintain an emergency response plan for spills of hazardous materials during transit.
Responsible Parties: DPW
Priority: M
Time Frame for Completion: 2005