

Ocean Disposal Sites
Northeast United States
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Prepared for:
National Oceanic and Atmospheric Administration
Office for Coastal Management
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1. INTRODUCTION

The term disposal site means a finally approved and precise geographical area within which ocean dumping of wastes is permitted under conditions specified in permits issued under sections 102 and 103 of the Act. Such sites are identified by boundaries established by coordinates of latitude and longitude for each corner, or by coordinates of latitude and longitude for the center point and a radius in nautical miles from that point. Boundary coordinates shall be identified as precisely as is warranted by the accuracy with which the site can be located with existing navigational aids or by the implantation of transponders, buoys or other means of marking the site.

2. PURPOSE

To support coastal and ocean planning and other activities pursuant to the Coastal Zone Management Act, Energy Policy Act, Magnuson-Stevens Fishery Conservation and Management Act, National Environmental Policy Act, Rivers and Harbors Act and the Submerged Lands Act.

3. SOURCES AND AUTHORITIES

Electronic Code of Federal Regulations - Title 40: Protection of Environment, Part 228

- <http://www.ecfr.gov/cgi-bin/text-idx?SID=e3a8d5f7e1f352983e86c24bd2c6af05&mc=true&node=pt40.25.220&rgn=div5><http://egisws02.nos.noaa.gov/ArcGIS/services>
- [http://www.nae.usace.army.mil/Missions/DisposalAreaMonitoringSystem\(DAMOS\)/DisposalSites.aspx](http://www.nae.usace.army.mil/Missions/DisposalAreaMonitoringSystem(DAMOS)/DisposalSites.aspx)

Undocumented source data from the U.S. Army Corps of Engineers New England District

Authority: 42 FR 2482, Jan. 11, 1977, as amended at 59 FR 61129, Nov. 29, 1994; 73 FR 74987, Dec. 10, 2008

4. DATABASE DESIGN AND CONTENT

Native storage format: ArcGIS File Geodatabase – simple feature class

Feature Types: Ocean Disposal Site

Data Dictionary:

Line	Name	Definition	Type	Size
1	OBJECTID	Uniquely identifies a feature	OBJECTID	*
2	Shape	Geometric representation of the feature	geometry	*
3	sourceId	Source reference	char	24
4	description	Name of site	char	96
5	designation	Final or Terminated from CFR	char	16
6	measurement	Description of site size	char	96
7	depth	Estimated depth or range of depth in meters	char	48
8	primaryUse	Defines the area and type of disposal activity	char	48
9	periodOfUse	Indicates if site is in continued use	char	64
10	restrictions	Constraints placed on the use of the site	char	256
11	status	Active or Inactive by DAMOS	char	16
12	siteLabel	Site name abbreviation	char	16
13	Shape_Length	Measurement in spherical coordinates	double	*
14	Shape_Area	Measurement in spherical coordinates	double	*

Feature Class Name: OceanDisposalSites2016

Total Number of Unique Features: 98

5. SPATIAL REPRESENTATION

Geometry Type: vector polygon

Reference System: Geographic Coordinate Reference System
Horizontal Datum: North American Datum 1983
Ellipsoid: Geodetic Reference System 1980

XY Resolution: 0.000000001
Tolerance: 0.000000008983153

Geographic extent: -74W to -67.3W, 40N to 44.6N

ISO 19115 Topic Category: environment, oceans

Place Names:

Atlantic, Block Island Sound, Blue Hill Bay, Boston Harbor, Buzzards Bay, Cape Cod Bay, Casco Bay, Cobscook Bay, Connecticut, Frenchman Bay, Gulf of Maine, Ipswich Bay, Long Island Sound, Machias Bay, Maine, Massachusetts, Massachusetts Bay, Nantucket Sound, Narragansett Bay, New Hampshire, New York, Penobscot Bay, Rhode Island, Rhode Island Sound, Saco Bay, United States, Vineyard Sound, Western Bay

Recommended Cartographic Properties:

(Using ArcGIS ArcMap methods and nomenclature)

Render disposal sites according to the “status” field value and label using the “siteLabel” value.

Scale range for visualization: 10,000 to 1,000,000. Optimal at: 1:80,000

6. DATA PROCESSING

Processing environment: ArcGIS 10.0 SP 3, Windows 7 Professional, Intel Core i7 CPU

	Process Step Description
1	Import of US ACOE Shapefile into local FGDB
2	Add new fields and populate based on data dictionary specifications
3	Remove original fields
4	In an interactive edit session inspect for and remove duplicate overlapping polygons - retain for further processing
5	Extract coordinates and attributes from the CFR and enter into Excel
6	Import to ArcGIS the coordinates and field data from Excel
7	In an interactive edit session - develop polygons using point locations
8	Join field values to polygon geometry
9	Merge US ACOE derived features with the CFR derived features

10	In an interactive edit session scan coverage area at 1:10,000 to find inactive and historic disposal sites listed on the NOAA RNC but not listed in the US ACOE or CFR sources - update feature class as needed
11	This 2016 version of the data set is an update to the original 2012 version. Several known duplicates from the USACE data source were removed, depth and size values were corrected for the RISDS, the designation field values were updated to reflect input only from the CFR, and the status and siteLabel fields were added. The geometry of existing features was not checked or altered. Several small punctuation changes were made to the description field content for consistency.

7. QUALITY PROCESS

Attribute Accuracy: Original content was acquired from authoritative sources – no new testing was done to cross reference or confirm otherwise the field or geometry values.

Logical Consistency: Tested through visual inspection of the geometry at a scale of 1:10,000 and through the analysis of summary statistics on field values.

Completeness: All known records acquired; visual inspection conducted at 1:10,000 for 100 percent of the geographic extent of the data. In limited cases a single disposal site may be characterized by more than one polygon. This can occur, in part because records from multiple sources for the same feature are not always identical. It is the responsibility of the user of this data to determine the appropriate selection of source material for their circumstances.

Positional Accuracy: Intended for use at an average scale not to exceed 1:40,000.

Timeliness: Based on best available data from the US Army Corps of Engineers as of February 23 2016, and U.S. Code of Federal Regulations as of February 23, 2016.

Use restrictions: NOT FOR NAVIGATION.