THIS IS NOT A PAID ADVERTISEMENT

Public Notice

US Army Corps of Engineers.
Philadelphia District
Wanamaker Building
100 Penn Square East
Philadelphia, PA 19107-3390
ATTN: CENAP-OP-R

Public Notice No. | Date: DEC 17 2004

Application No. | File No.: CENAP-OP-R-200401135-1 & CENAN-OP-RE 2005-00033

In Reply Refer to: **Regulatory Branch**

This District has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344).

The purpose of this notice is to solicit comments and recommendations from the public concerning issuance of a Department of the Army permit for the work described below.

APPLICANT: NJDEP, Division of Fish and Wildlife

ADDRESS: Mr. Bill Figley
Bureau of Marine Fisheries
Bureau of Marine Fisheries
P.O. Box 418
Port Republic, New Jersey 08241

WATERWAY: Atlantic Ocean

LOCATION: Within the Atlantic Ocean along the coast of New Jersey at 15 separate locations between Sandy Hook and Cape May. This would include 2 previously authorized sites within the New York District boundaries, 12 previously authorized sites within the Philadelphia District boundaries, and 1 proposed new site within the Philadelphia District boundaries.

ACTIVITY: Reference is made to Department of the Army permits listed and described below:

CENAP-OP-R-88-1769-1, CENAP-OP-R-199200384-36, and CENAP-OP-R-199802530-1, which have previously authorized the New Jersey Department of Environmental Protection, Division of Fish and Wildlife to continue the deployment of artificial reef materials at 12 separate artificial reef sites in the Atlantic Ocean along the coast of New Jersey. These previous permits authorized reef development for the 12 reef sites located within the Philadelphia District boundaries.

CENAN-OP-R-14735 and CENAN-OP-R-10689A, which have previously authorized the New Jersey Division of Fish and Wildlife to continue deployment of artificial reef materials at 2 separate artificial reef sites in the Atlantic Ocean along the coast of New Jersey. These previous permits authorized reef development for the 2 artificial reef sites located within the New York District boundaries. These 2 reef sites are located off the coast of Monmouth County and are identified as the Sandy Hook and Sea Girt reef sites.

The applicant is proposing the following specific actions: (1) to consolidate the permit authorizations for all 14 existing reef sites into one single permit document; (2) to continue deployment of artificial reef materials at the 14 existing reef sites; and (3) to add 1 additional artificial reef site to the state-wide program bringing the total number of artificial reef sites along the coast of New Jersey to 15.

The longitude and latitude and Loran "C" Coordinates of each of the 14 existing artificial reef sites and the proposed additional artificial reef site are identified on the enclosed charts. The artificial reef materials would include two (2) categories. The first would be specifically designed structures. Designed reef structures would be designed to maximize surface area for attached epifaunal organisms and to provide specific habitat requirements for targeted fish species. Designed reef materials can be manufactured to maximize specific marine resource values. However, these materials are generally more expensive and are not readily available. The second category of reef materials are identified as materials of opportunity. Materials of opportunity that could be used for construction of the artificial reef structures would include concrete, rock, concrete-ballasted tire units, surplus ships, barges, tanks, other armored personnel carriers, and obsolete subway cars. In accordance with the National Artificial Reef Plan and Department of the Army authorizations, all materials of opportunity would be properly cleaned, dismantled where necessary, and inspected prior to deployment to assure that they are clean and free of contaminants.

The proposed artificial reef sites are identified as follows:

1. Sandy Hook Reef site is located approximately 1.4 miles east of Sea Bright in Monmouth County, New Jersey. This site is located approximately 5.7 miles at a direction of 157 degrees from Sandy Hook Channel. The Sandy Hook site requires a minimum vertical clearance of forty (40) feet below mean low water.

2. Sea Girt Reef site is located approximately 3.4 miles east of Sea Girt, in Monmouth County New Jersey. The Sea Girt site requires a minimum vertical clearance of fifty (50) feet below mean low water.

3. Shark River Reef site is located approximately 15.6 Nautical miles and at a direction of 100 degrees from the Manasquan Inlet, in Monmouth/Ocean County, New Jersey. The Shark River site requires a minimum vertical clearance of fifty (50) feet below mean low water.

4. Axel Carlson Reef site (formerly known as Mantoloking Reef site) is located approximately 2.1 miles east of Mantoloking in Ocean County, New Jersey. This site is located approximately 4.35 Nautical miles at a direction of 166 degrees from Manasquan Inlet. The Axel Carlson site requires a minimum vertical clearance of fifty (50) feet below mean low water.

5. Barnegat Light Reef site is located approximately 3.1 Nautical miles east of Barnegat Light in Ocean County, New Jersey. This site is approximately 3.1 miles from Barnegat Inlet at a direction of 103 degrees. The Barnegat Light site requires a minimum vertical clearance of fifty (50) feet below mean low water.

6. Garden State North Reef site is located approximately 6.5 nautical miles east of Harvey Cedars in Ocean County, New Jersey. This site is approximately 7.7 nautical miles at a direction of 172 degrees from Barnegat Inlet. The Garden State North site requires a minimum vertical clearance of fifty two (52) feet below mean low water.

7. Garden State South Reef site is located approximately 5.1 nautical miles east of Spray Beach in Ocean County, New Jersey. This site is located approximately 9.1 nautical miles at a direction of 64 degrees from Little Egg Inlet. The Garden State South site requires a minimum vertical clearance of fifty two (52) feet below mean low water.

8. Little Egg Reef site is located approximately 3.8 nautical miles east of Holgate in Ocean County, New Jersey. This site is located approximately 5.05 nautical miles at a direction of 93 degrees from Little Egg Inlet. The Little Egg site requires a minimum vertical clearance of fifty (50) feet below mean low water.

9. Atlantic City Reef site is located approximately 12. 2 nautical miles east of Atlantic City in Atlantic County, New Jersey. This site is located approximately 8.5 nautical miles at a direction of 142 degrees from Absecon Inlet. The Atlantic City site requires a minimum vertical clearance of. fifty (50) feet below mean low water.

10. Great Egg Reef site is located approximately 7 nautical miles southeast of Atlantic City in Atlantic County, New Jersey. This site is located approximately 9.2 miles at a direction of 110 degrees from Great Egg Harbor Inlet. The Great Egg site requires a minimum vertical clearance of fifty (50) feet below mean low water.

11. Ocean City Reef Site is located approximately 4.5 nautical miles southeast of Ocean City in Cape May County, New Jersey. This is located 4.3 nautical miles at a direction of 131 degrees from Corson's Inlet. The Ocean City site requires a minimum vertical clearance of fifty (50) feet below mean low water.

12. Wildwood Reef Site is located approximately 4.4 nautical miles southeast of Wildwood in Cape May County, New Jersey. This site is located 4.5 nautical miles at a direction of 135 degrees from Hereford Inlet. The Wildwood site requires a minimum vertical clearance of thirty (30) feet below mean low water.

13. Cape May Reef Site is located approximately 8.5 nautical miles southeast of Wildwood in Cape May County, New Jersey. It is located 9.1 nautical miles at a direction of 128 degrees from Cape May Inlet. The Cape May site requires a minimum vertical clearance of thirty (30) feet below mean low water.

14. Deepwater Reef Site is located approximately 25.1 nautical miles southeast of Avalon in Cape May County, New Jersey. This site is located 31.5 nautical miles at a direction of 99 degrees from Cape May Inlet. The Deepwater site requires a minimum vertical clearance of fifty (50) feet below mean low water.

15. The proposed new artificial reef site has been identified as the Townsends Inlet Reef Site. This proposed site is located approximately 3.8 nautical miles southeast of Townsends Inlet in Cape May County, New Jersey. This site would measure 0.52 square miles and can be further identified as being approximately 2 nautical miles northwest of an area charted and labeled as the Avalon Shoal. The Townsends Inlet Reef site would require a minimum vertical clearance of thirty (30) feet below mean low water.

PURPOSE: The purposes of the artificial reef sites are to provide habitat for marine fish and shellfish and to provide fishing grounds for anglers and underwater structures for scuba divers.

A preliminary review of this application indicates that the proposed work would not affect listed species or their critical habitat pursuant to Section 7 of the Endangered Species Act as amended. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

The decision whether to issue a permit will be based on an evaluation of the activity's probable impact including its cumulative impacts on the public interest. The decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the work must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the work will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs and welfare of the people. A Department of the Army permit will be granted unless the District Engineer determines that it would be contrary to the public interest. It should be further noted that Department of the Army regulations found at 33 CFR 322.5 include special policies for the review of artificial reef applications. As a part of these special policies, the District Engineer will evaluate the project with respect to the National Artificial Reef Plan developed pursuant to Section 204 of the National Fishing Enhancement Act of 1984. The National Artificial Reef Plan was published by the National Marine Fisheries Service in 1985.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Comments on the proposed work should be submitted, in writing, within 30 days to the District Engineer, U.S. Army Corps of Engineers, Philadelphia District, Wanamaker Building, 100 Penn Square East, Philadelphia, Pennsylvania 19107-3390. This would include comments relating to all fifteen (15) artificial reef sites between Sandy Hook and Cape May.

Review of the National Register of Historic Places indicates that no registered properties or properties listed as eligible for inclusion therein are located within the permit area of the work. The 14 existing artificial reef sites were previously examined for the presence of potential marine archaeological resources. The location of the 14 existing sites would not change with this application and authorization. A recent investigation of the proposed Townsend's Inlet reef site was conducted utilizing side scan sonar and marine magnetometer. This investigation identified a small number of potential resource sites. However, the applicant has stated that these specific sites would be avoided as reef deployment sites.

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996 (Public Law 104-267), requires all Federal agencies to consult with the National Marine Fisheries Service on all actions, or proposed actions, permitted, funded or undertaken by the agency that may adversely affect Essential Fish Habitat (EFH). The "Guide to Essential Fish Habitat Designations in the Northeastern United States, Volume IV: New Jersey and Delaware" dated March 1999 (pages 5, 15, 16, 26, 34, 42, 54, 55, 64, 73, and 76) has identified essential fish habitat for a number of species in various life stages that could be found within the boundaries of the fifteen artificial reef sites. The purpose of the artificial reef program

is to enhance fisheries resources. Since this program provides for the development of hard substrate and structures, it would be a substantial benefit to the listed species, which rely on these types of habitat. However, the deployment of artificial reef materials on soft or sandy substrates eliminates this habitat under the foortprint of the reef structure. This action reduces the quantity of sandy substrate habitat for those species that rely on this type of habitat. By definition, this action would be defined by the National Marine Fisheries Service as an adverse effect. Accordingly, it is concluded that the artificial reef development activities would have an adverse effect on the essential fish habitat for the following species: summer flounder, winter flounder, windowpane flounder, surf clams, ocean quahog, clearnose skate, little skate, and winter skate. However, it is also recognized that the species described for sandy substrates can also benefit from artificial reef structures. Many of the prey species that these target species rely on are dependent on structures and hard substrate. The enhanced habitat value for the bait species would enhance the foraging opportunities in the vicinity of the reef structures. It is further noted that the reef structures are developed in a patchwork pattern. This serves to maximize the interface between the various habitats. Further, juveniles of the species listed above would have enhanced refuge opportunities in and around the reef structures. As such, the artificial reef structures would have only a minor adverse effect on the essential fish habitat of these species. This determination must be coordinated with the National Marine Fisheries Service, which may result in additional conservation recommendations.

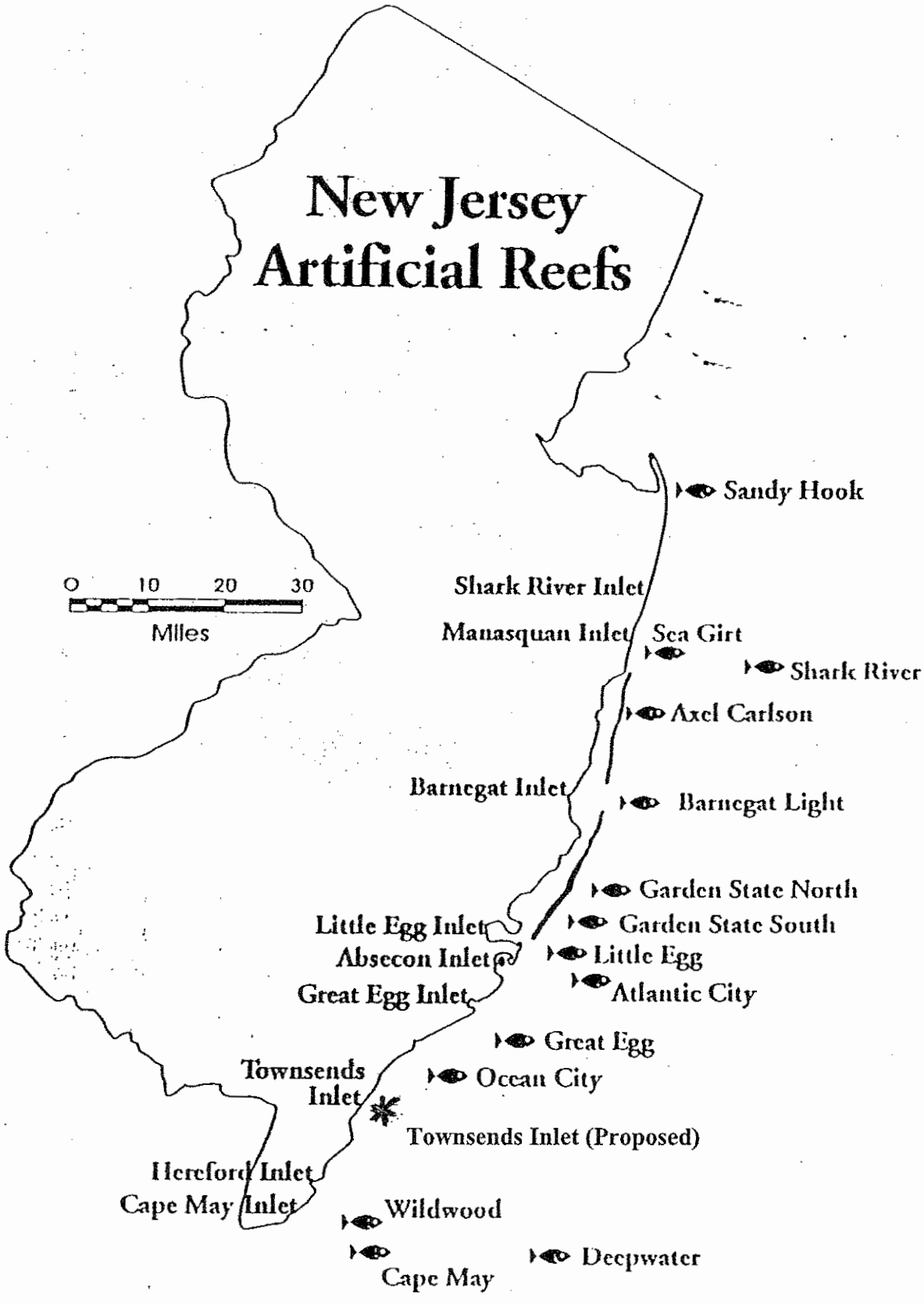
In accordance with Section 307(c) of the Coastal Zone Management Act of 1972, applicants for Federal Licenses or Permits to conduct an activity affecting land or water uses in a State's coastal zone must provide certification that the activity complies with the State's Coastal Zone Management Program. The applicant has stated that the proposed activity complies with and will be conducted in a manner that is consistent with the approved State Coastal Zone Management (CZM) Program. No permit will be issued until the State has concurred with the applicant's certification or has waived its right to do so. Comments concerning the impact of the proposed activity on the State's coastal zone should be sent to this office, with a copy to the State's Office of Coastal Zone Management.

In accordance with Section 401 of the Clean Water Act, a Water Quality Certificate is necessary from the State government in which the work is located. Comments concerning the work described above which relate to Water Quality considerations should be sent to this office with a copy to the State.

The evaluation of the impact of the work described above on the public interest will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act.

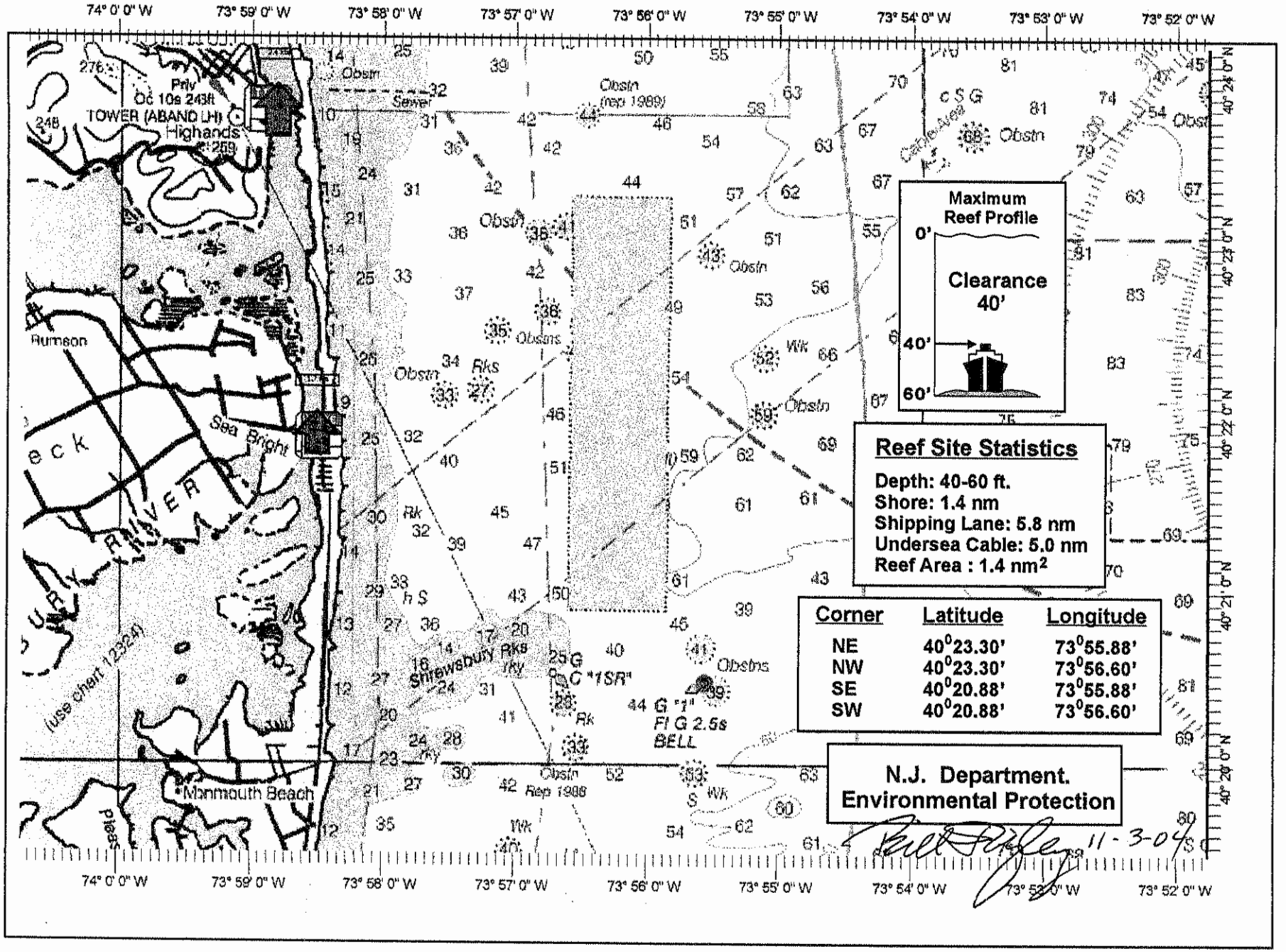
Any person may request, in writing, to the District Engineer, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state in writing, with particularity, the reasons for holding a public hearing. Additional information concerning this permit application may be obtained by calling Mr. Edward Bonner at (215) 656-5932 or writing this office at the above address.

Frank J. Cianfrani
Chief, Regulatory Branch

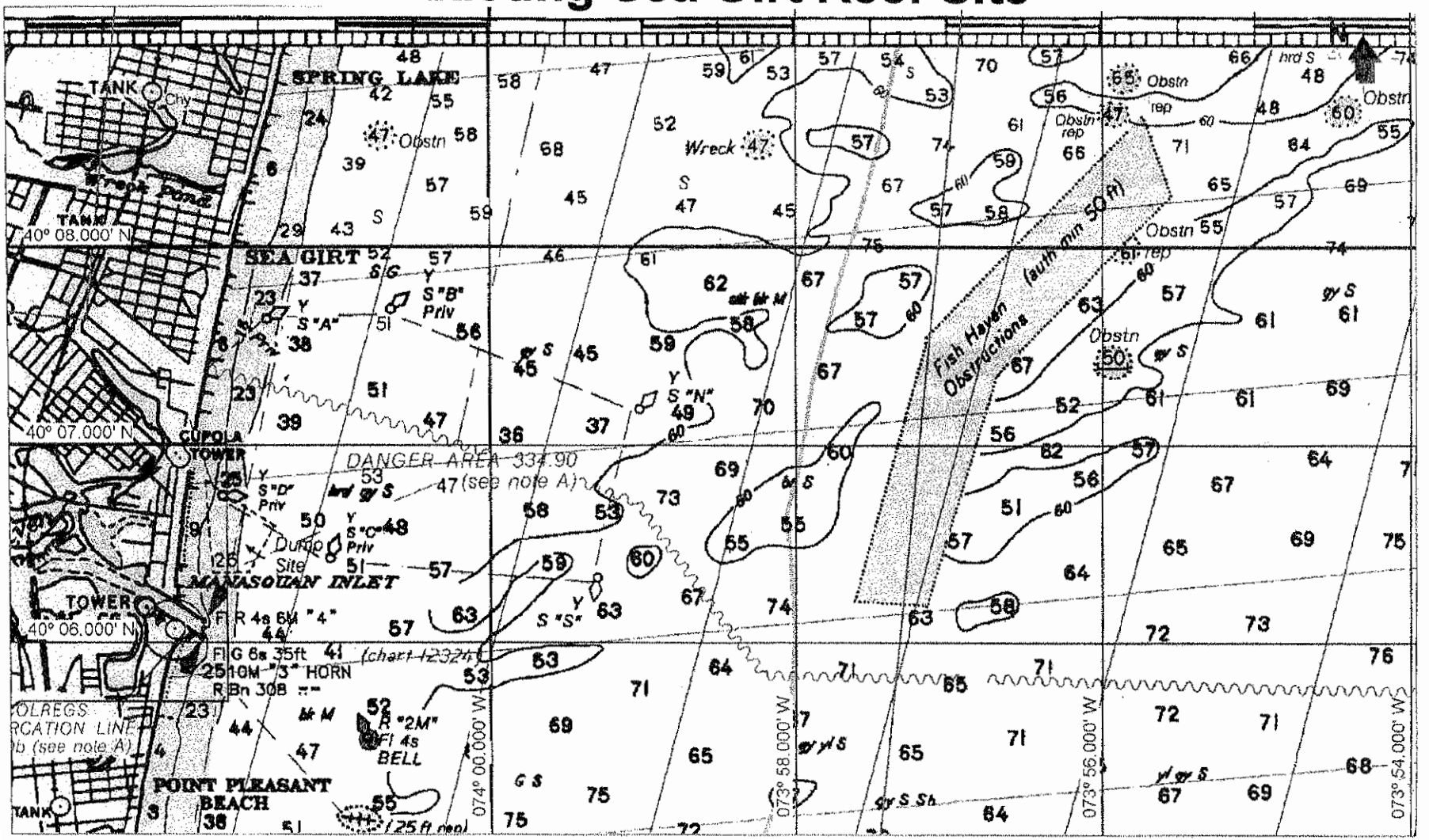


New Jersey's artificial reef network

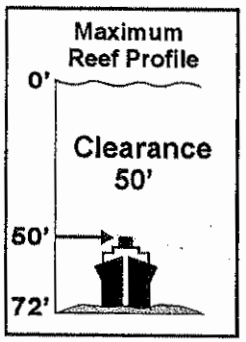
Existing Sandy Hook Reef Site



Existing Sea Girt Reef Site



Corner	Latitude	Longitude
NE	40°08.22'	73°55.52'
NW	40°08.63'	73°55.73'
ME	40°07.30'	73°56.67'
MW	40°07.48'	73°57.15'
SE	40°06.13'	73°57.12'
SW	40°06.17'	73°57.57'



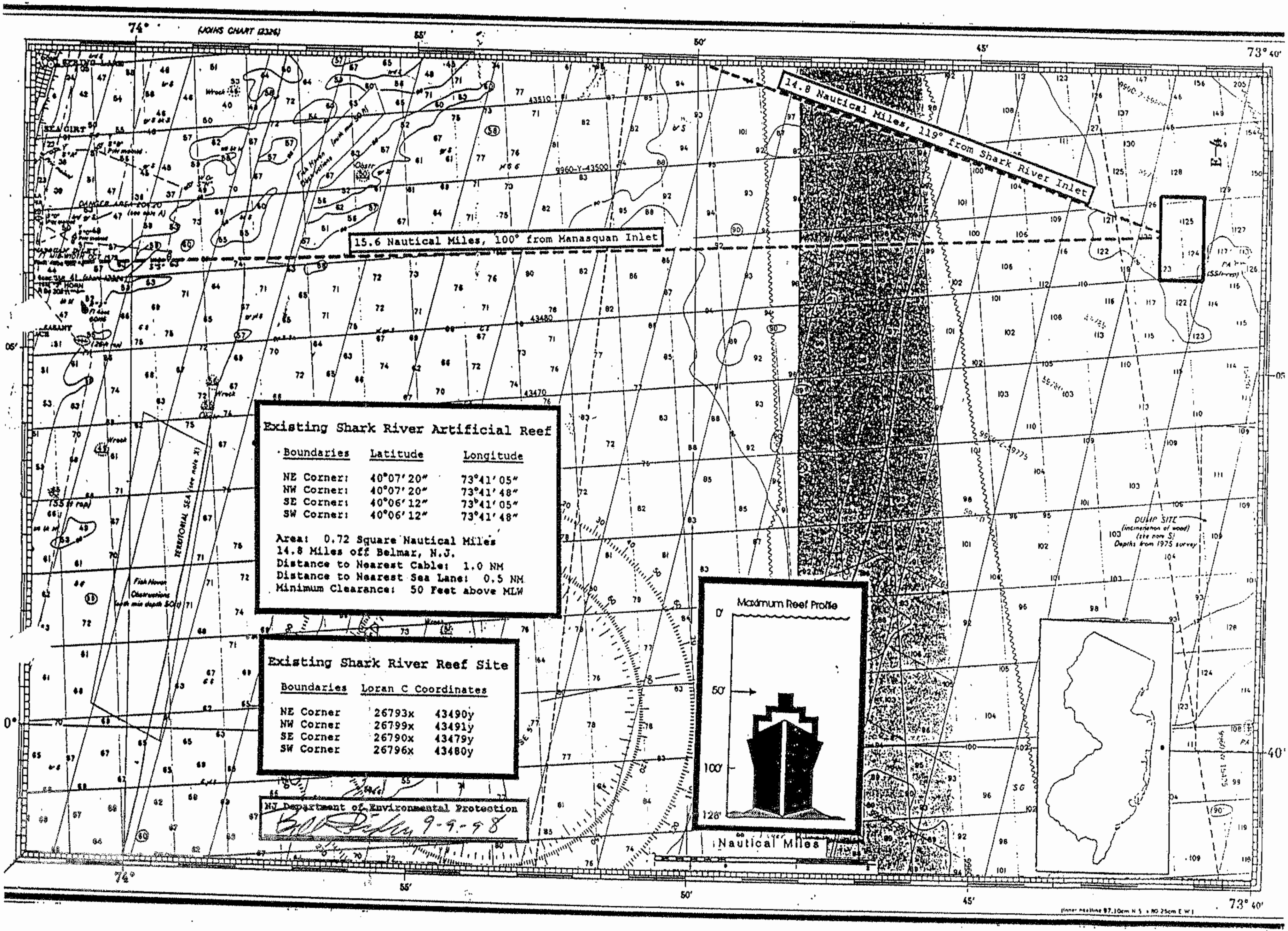
Nautical Miles
0.00 0.50 1.00 1.50

Reef Site Statistics

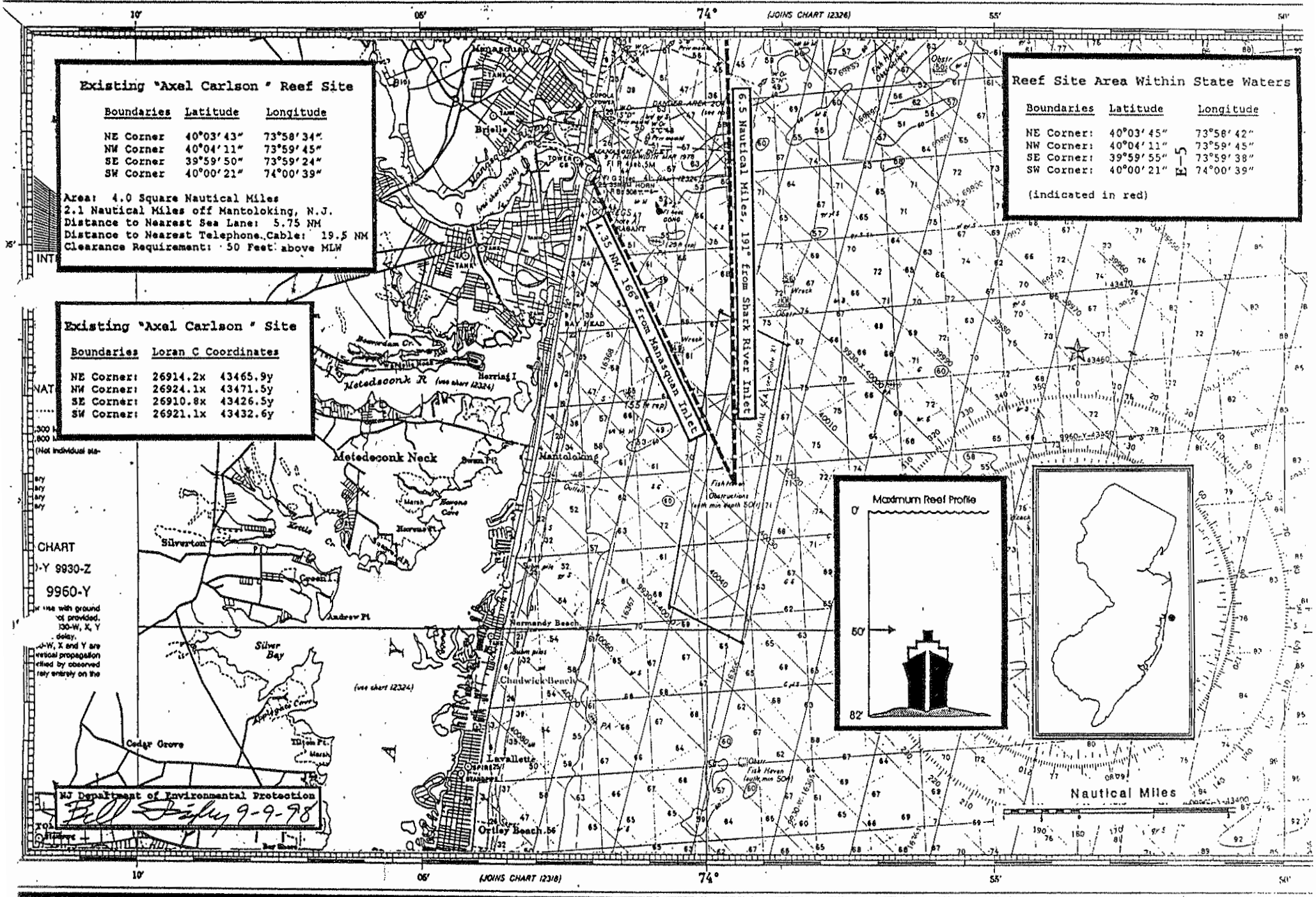
Depth: 57-72 ft.
Shore: 3.4 nm
Shipping Lane: 3.3 nm
Undersea Cable: 0.4 nm

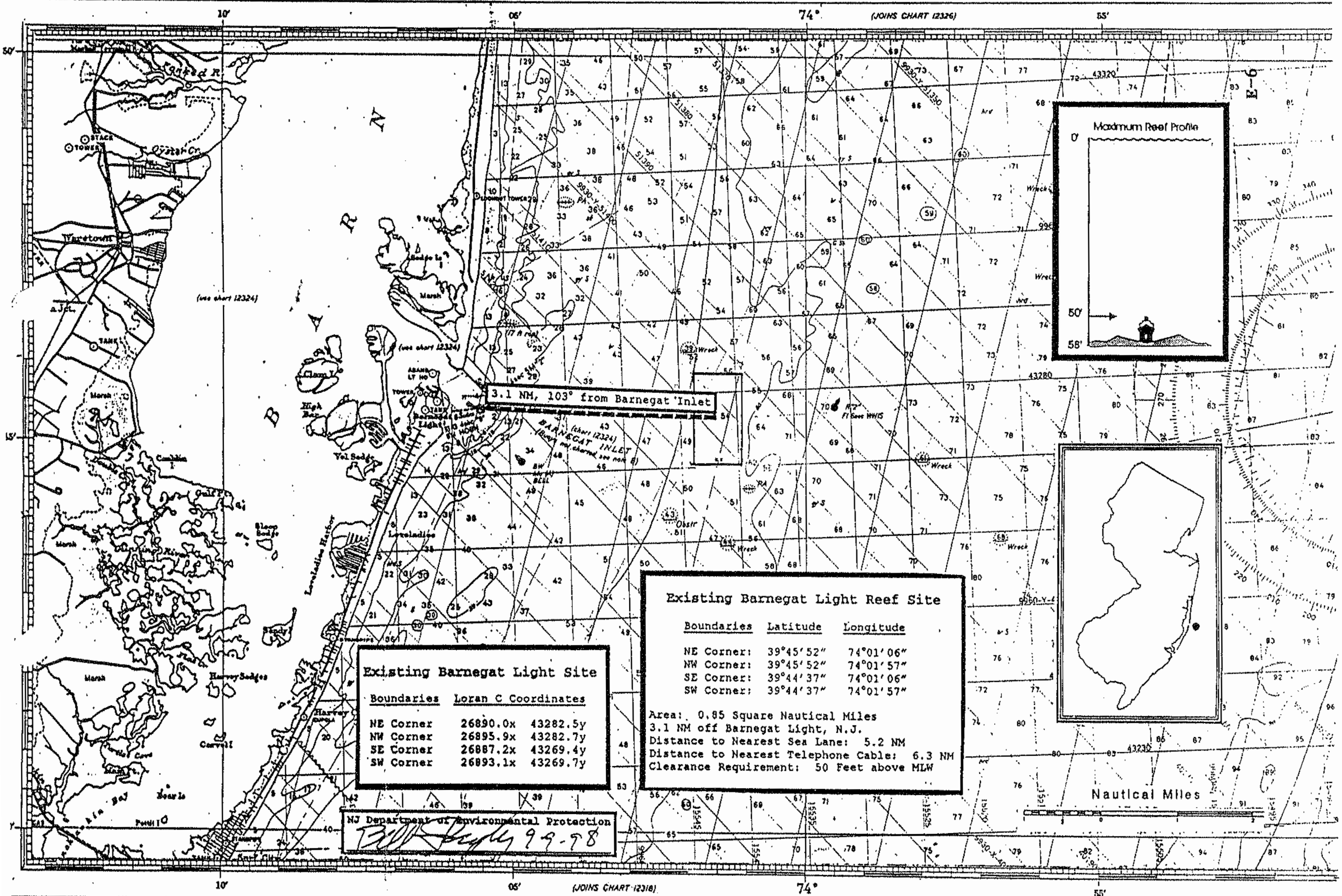
N.J. Department. Environmental Protection

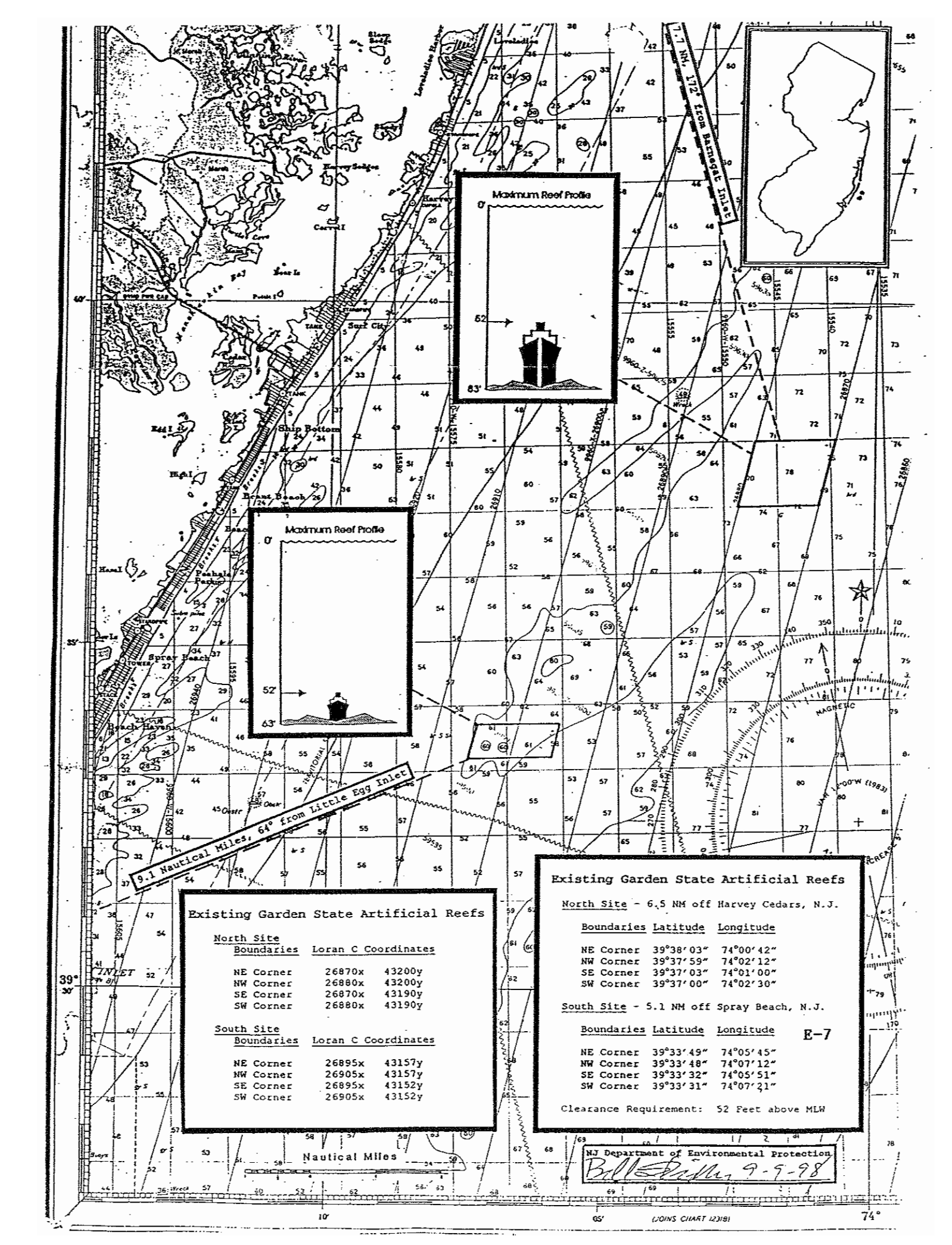
Bill Ogley 11-3-04

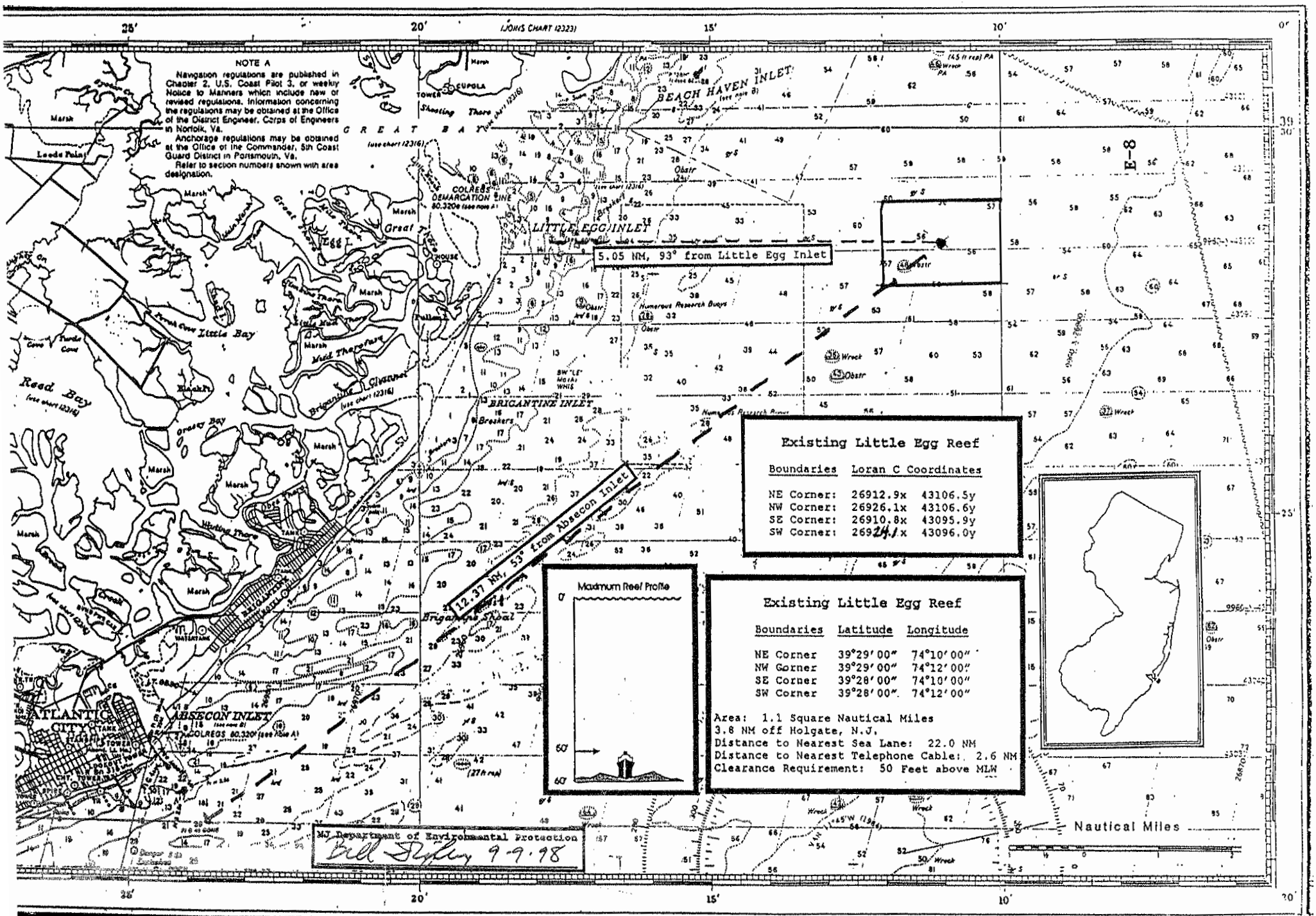


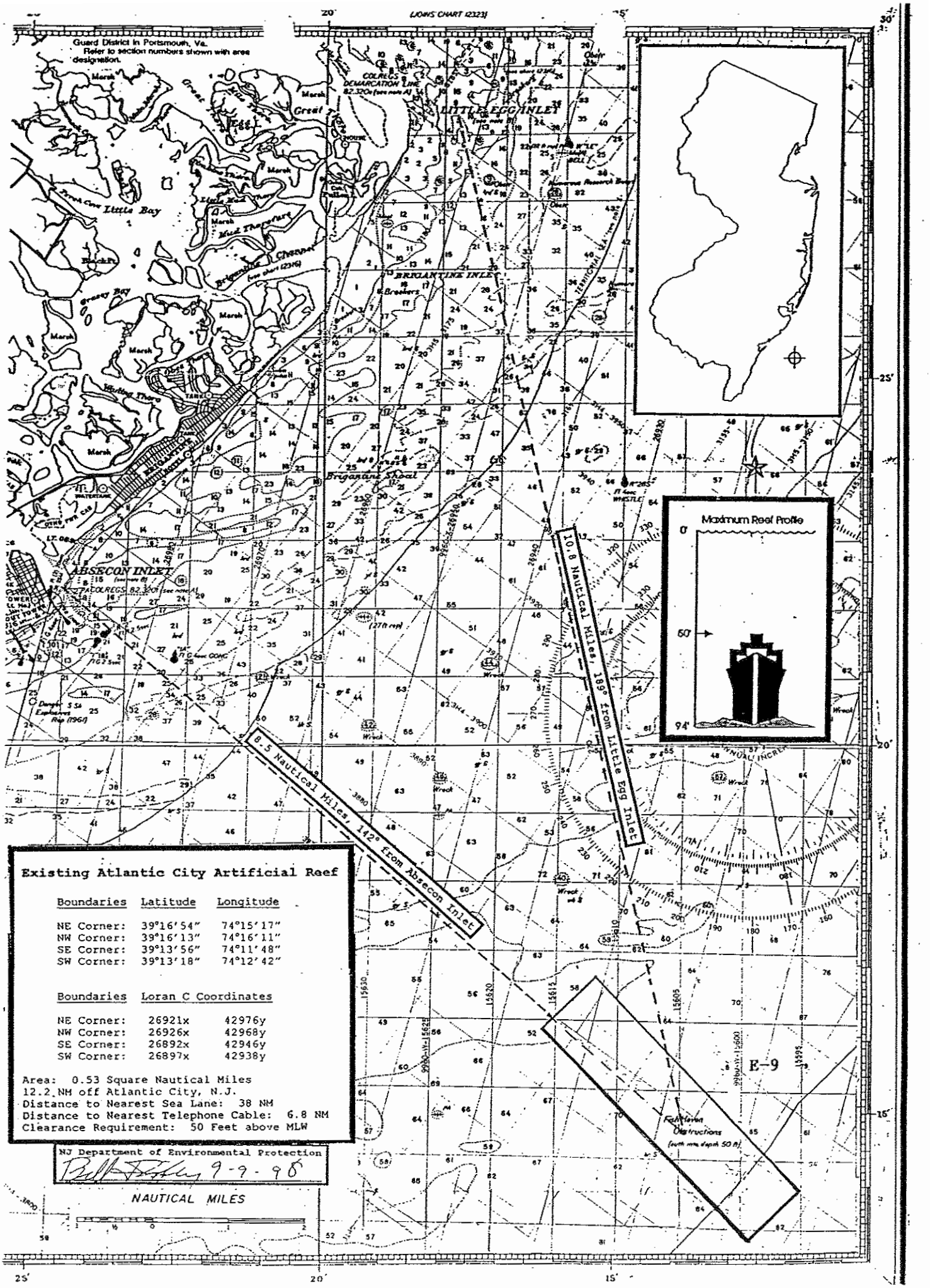
NOAA CHART 12326
15.6 Nautical Miles, 100° from Manasquan Inlet
14.8 Nautical Miles, 119° from Shark River Inlet
Existing Shark River Artificial Reef
Boundaries Latitude Longitude
NE Corner: 40°07'20" 73°41'05"
NW Corner: 40°07'20" 73°41'48"
SE Corner: 40°06'12" 73°41'05"
SW Corner: 40°06'12" 73°41'48"
Area: 0.72 Square Nautical Miles
14.8 Miles off Belmar, N.J.
Distance to Nearest Cable: 1.0 NM
Distance to Nearest Sea Lane: 0.5 NM
Minimum Clearance: 50 Feet above MLW
Existing Shark River Reef Site
Boundaries Loran C Coordinates
NE Corner 26793x 43490y
NW Corner 26799x 43491y
SE Corner 26790x 43479y
SW Corner 26796x 43480y
NJ Department of Environmental Protection
9-9-98
Maximum Reef Profile
0'
50'
100'
128'
Nautical Miles
TERRITORIAL SEA (see note X)
DUMP SITE
Depths from 1975 survey
SEA GIRT
DANGER AREA
74°
73°40'
55'
50'
45'
E-4


Existing "Axel Carlson" Reef Site
Boundaries Latitude Longitude
NE Corner 40°03'43" 73°58'34"
NW Corner 40°04'11" 73°59'45"
SE Corner 39°59'50" 73°59'24"
SW Corner 40°00'21" 74°00'39"
Area: 4.0 Square Nautical Miles
2.1 Nautical Miles off Mantoloking, N.J.
Distance to Nearest Sea Lane: 5.75 NM
Distance to Nearest Telephone Cable: 19.5 NM
Clearance Requirement: 50 Feet above MLW
Existing "Axel Carlson" Site
Boundaries Loran C Coordinates
NE Corner: 26914.2x 43465.9y
NW Corner: 26924.1x 43471.5y
SE Corner: 26910.8x 43426.5y
SW Corner: 26921.1x 43432.6y
Reef Site Area Within State Waters
Boundaries Latitude Longitude
NE Corner: 40°03'45" 73°58'42"
NW Corner: 40°04'11" 73°59'45"
SE Corner: 39°59'55" 73°59'38"
SW Corner: 40°00'21" 74°00'39"
(indicated in red)
6.5 Nautical Miles, 191° from Shark River Inlet
4.35 NM, 166° from Manasquan Inlet
Maximum Reef Profile
0'
50'
82'
Nautical Miles
NJ Department of Environmental Protection
Bill Bailey 9-9-98
Manasquan
Brielle
Metedeconk R.
Metedeconk Neck
Mantoloking
Silverton
Cedar Grove
Silver Bay
Normandy Beach
Chadwick Beach
Lavallette
Ortley Beach
Herring I.
Andrew Pt.
Elton Pt.
CHART
9960-Y
(JOINS CHART 12326)
(JOINS CHART 12318)
74°


3.1 NM, 103° from Barnegat Inlet
Existing Barnegat Light Site
Boundaries Loran C Coordinates
NE Corner 26890.0x 43282.5y
NW Corner 26895.9x 43282.7y
SE Corner 26887.2x 43269.4y
SW Corner 26893.1x 43269.7y
NJ Department of Environmental Protection
9-9-98
Existing Barnegat Light Reef Site
Boundaries Latitude Longitude
NE Corner: 39°45'52" 74°01'06"
NW Corner: 39°45'52" 74°01'57"
SE Corner: 39°44'37" 74°01'06"
SW Corner: 39°44'37" 74°01'57"
Area: 0.85 Square Nautical Miles
3.1 NM off Barnegat Light, N.J.
Distance to Nearest Sea Lane: 5.2 NM
Distance to Nearest Telephone Cable: 6.3 NM
Clearance Requirement: 50 Feet above MLW
Maximum Reef Profile
0'
50'
58'
Nautical Miles
(JOINS CHART 12326)
(JOINS CHART 12318)
Loveladies Harbor
Waretown
Barnegat Light
BARNEGAT INLET


Maximum Reef Profile
0'
52'
63'
Maximum Reef Profile
0'
52'
63'
7.1 NM, 172° from Barnegat Inlet
9.1 Nautical Miles, 64° from Little Egg Inlet
Nautical Miles
MAGNETIC
VAR 14°00'W (1983)
JOINS CHART 12318
Existing Garden State Artificial Reefs
North Site
Boundaries Loran C Coordinates
NE Corner 26870x 43200y
NW Corner 26880x 43200y
SE Corner 26870x 43190y
SW Corner 26880x 43190y
South Site
Boundaries Loran C Coordinates
NE Corner 26895x 43157y
NW Corner 26905x 43157y
SE Corner 26895x 43152y
SW Corner 26905x 43152y
Existing Garden State Artificial Reefs
North Site - 6.5 NM off Harvey Cedars, N.J.
Boundaries Latitude Longitude
NE Corner 39°38'03" 74°00'42"
NW Corner 39°37'59" 74°02'12"
SE Corner 39°37'03" 74°01'00"
SW Corner 39°37'00" 74°02'30"
South Site - 5.1 NM off Spray Beach, N.J.
Boundaries Latitude Longitude
NE Corner 39°33'49" 74°05'45"
NW Corner 39°33'48" 74°07'12"
SE Corner 39°33'32" 74°05'51"
SW Corner 39°33'31" 74°07'21"
Clearance Requirement: 52 Feet above MLW
E-7
NJ Department of Environmental Protection
9-9-98


NOTE A
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 3, or weekly Notice to Mariners which include new or revised regulations. Information concerning the regulations may be obtained at the Office of the District Engineer, Corps of Engineers in Norfolk, Va.
Anchorage regulations may be obtained at the Office of the Commander, 5th Coast Guard District in Portsmouth, Va.
Refer to section numbers shown with area designation.
5.05 NM, 93° from Little Egg Inlet
12.37 NM, 53° from Absecon Inlet
Existing Little Egg Reef
Boundaries Loran C Coordinates
NE Corner: 26912.9x 43106.5y
NW Corner: 26926.1x 43106.6y
SE Corner: 26910.8x 43095.9y
SW Corner: 26924.1x 43096.0y
Maximum Reef Profile
0'
60'
Existing Little Egg Reef
Boundaries Latitude Longitude
NE Corner 39°29'00" 74°10'00"
NW Corner 39°29'00" 74°12'00"
SE Corner 39°28'00" 74°10'00"
SW Corner 39°28'00" 74°12'00"
Area: 1.1 Square Nautical Miles
3.8 NM off Holgate, N.J.
Distance to Nearest Sea Lane: 22.0 NM
Distance to Nearest Telephone Cable: 2.6 NM
Clearance Requirement: 50 Feet above MLW
NJ Department of Environmental Protection
Bill Dipley 9-9-98
Nautical Miles
GREAT BAY
BEACH HAVEN INLET
LITTLE EGG INLET
BRIGANTINE INLET
ABSECON INLET
Little Egg
Great Thorofare
Mud Thorofare
Brigantine Channel
Brigantine Shoal
Reed Bay
Little Bay
Marsh
Obstr
Wreck
Numerous Research Buoys
COLREGS DEMARCATION LINE
ATLANTIC CITY



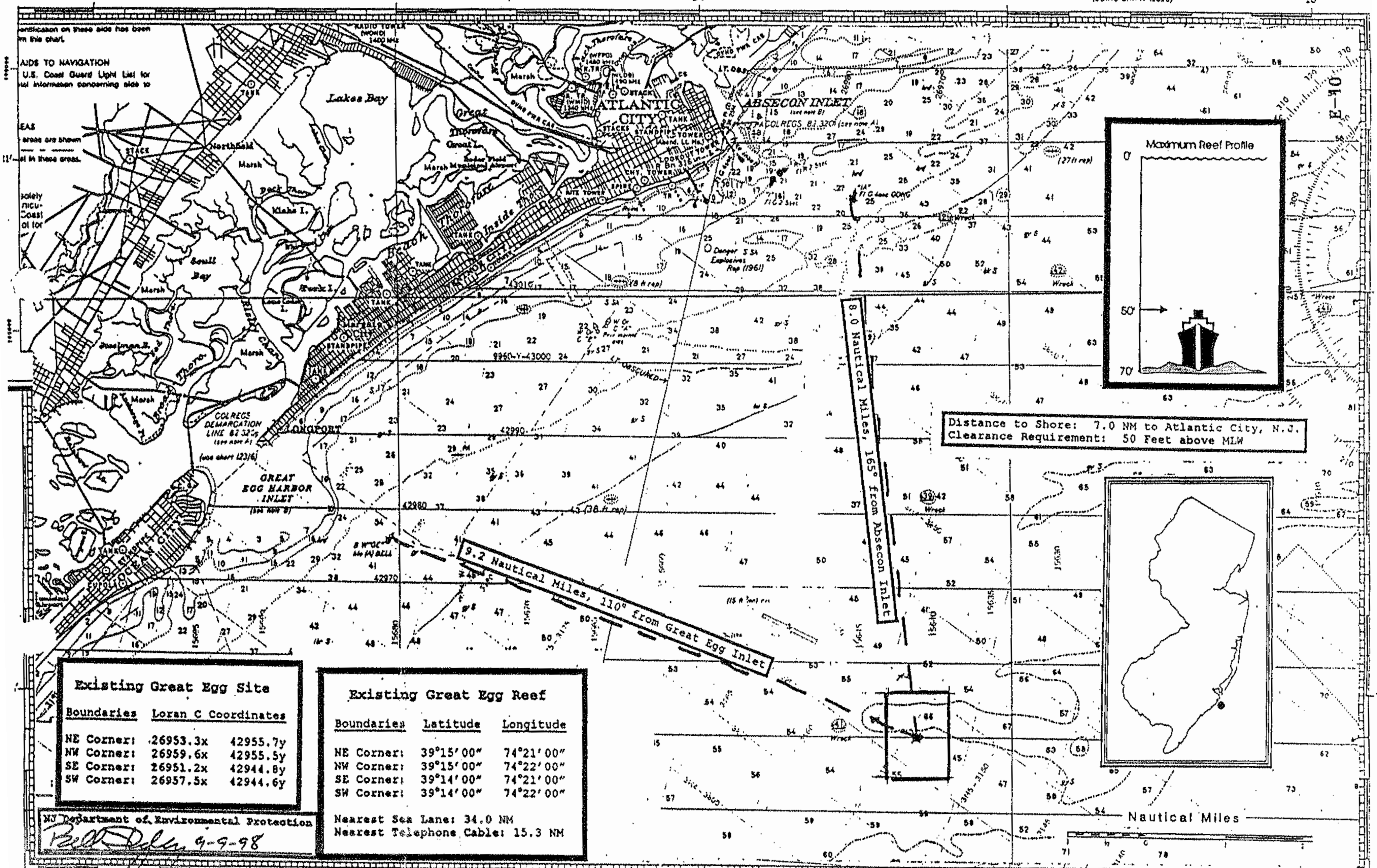
Existing Atlantic City Artificial Reef

Boundaries	Latitude	Longitude
NE Corner:	39°16'54"	74°15'17"
NW Corner:	39°16'13"	74°16'11"
SE Corner:	39°13'56"	74°11'48"
SW Corner:	39°13'18"	74°12'42"

Boundaries	Loran C Coordinates	
NE Corner:	26921x	42976y
NW Corner:	26926x	42968y
SE Corner:	26892x	42946y
SW Corner:	26897x	42938y

Area: 0.53 Square Nautical Miles
12.2 NM off Atlantic City, N.J.
Distance to Nearest Sea Lane: 38 NM
Distance to Nearest Telephone Cable: 6.8 NM
Clearance Requirement: 50 Feet above MLW

NJ Department of Environmental Protection
9-9-96



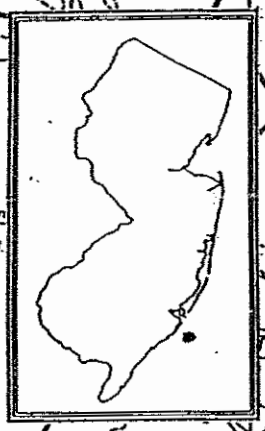
(JOINS CHART 12323)
ATLANTIC CITY
ABSECON INLET
Lakes Bay
LONGPORT
GREAT EGG HARBOR INLET
COLREGS DEMARCATION LINE 82.320
Maximum Reef Profile
0'
50'
70'
Distance to Shore: 7.0 NM to Atlantic City, N.J.
Clearance Requirement: 50 Feet above MLW
8.0 Nautical Miles, 165° from Absecon Inlet
9.2 Nautical Miles, 110° from Great Egg Inlet
Nautical Miles
Existing Great Egg Site
Boundaries Loran C Coordinates
NE Corner: 26953.3x 42955.7y
NW Corner: 26959.6x 42955.5y
SE Corner: 26951.2x 42944.8y
SW Corner: 26957.5x 42944.6y
Existing Great Egg Reef
Boundaries Latitude Longitude
NE Corner: 39°15'00" 74°21'00"
NW Corner: 39°15'00" 74°22'00"
SE Corner: 39°14'00" 74°21'00"
SW Corner: 39°14'00" 74°22'00"
Nearest Sea Lane: 34.0 NM
Nearest Telephone Cable: 15.3 NM
NJ Department of Environmental Protection
9-9-98

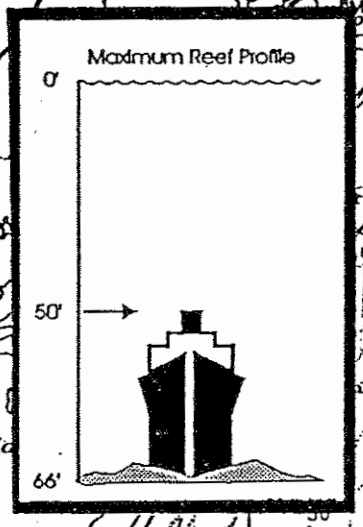
E-10

Existing Ocean C[illegible] Artificial Reef

Boundaries	Latitude	Longitude
NE Corner	39°10′45″	74°32′27″
NW Corner	39°11′06″	74°32′51″
SE Corner	39°09′24″	74°34′37″
SW Corner	39°09′49″	74°34′58″

4.5 Nautical Miles off Ocean City, N.J.
Clearance Requirement: 50 feet above MLW



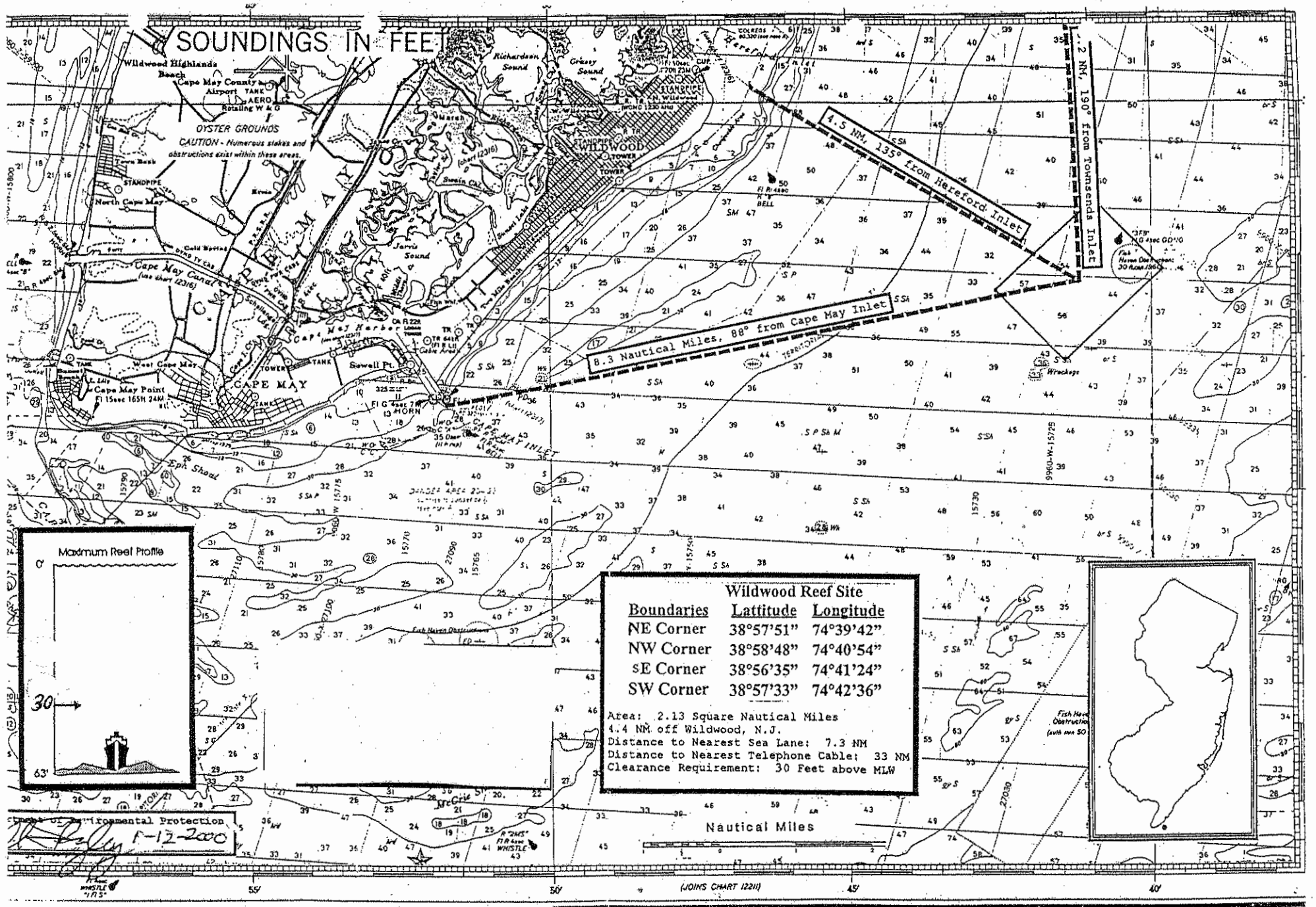


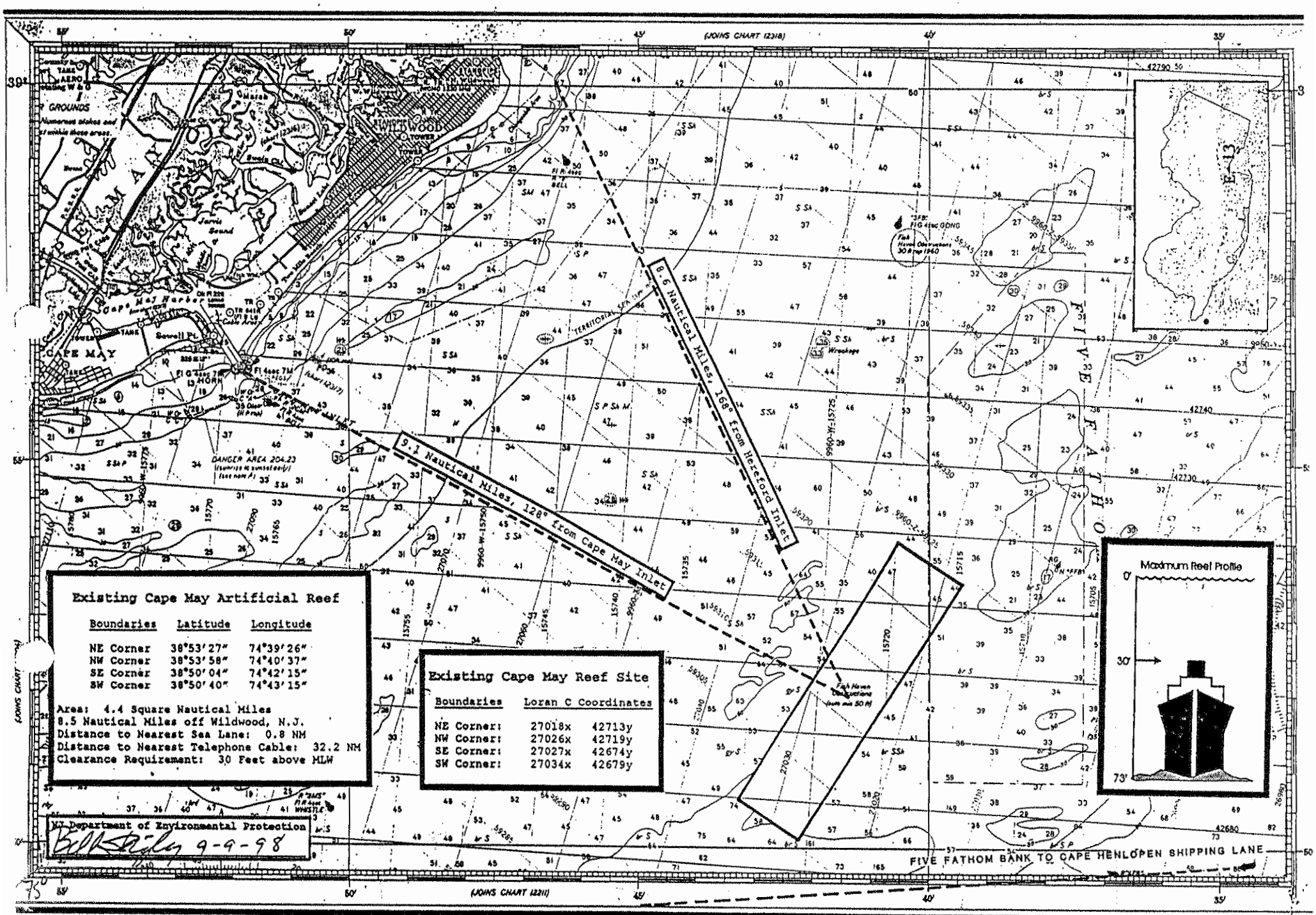
Existing Ocean City Artificial Reef

Boundaries	Loran C Coordinates	
NE Corner	27014.5x	42906.5y
NW Corner	27017.5x	42910.5y
SE Corner	27025.5x	42892.5y
SW Corner	27027.5x	42896.5y

NJ Department of Environmental Protection

Bill Bayley 9-9-98


SOUNDINGS IN FEET
Wildwood Highlands Beach
Cape May County Airport
OYSTER GROUNDS
CAUTION - Numerous stakes and obstructions exist within these areas.
North Cape May
Cape May Canal
Cape May Harbor
West Cape May
CAPE MAY
Cape May Point
Sewell Pt.
Richardson Sound
Grassy Sound
Jarvis Sound
WILDWOOD
WILDWOOD CREST
4.5 NM, 135° from Hereford Inlet
4.2 NM, 190° from Townsends Inlet
8.3 Nautical Miles, 88° from Cape May Inlet
CAPE MAY INLET
Maximum Reef Profile
30
63'
Wildwood Reef Site
Boundaries | Lattitude | Longitude
NE Corner | 38°57'51" | 74°39'42"
NW Corner | 38°58'48" | 74°40'54"
sE Corner | 38°56'35" | 74°41'24"
SW Corner | 38°57'33" | 74°42'36"
Area: 2.13 Square Nautical Miles
4.4 NM off Wildwood, N.J.
Distance to Nearest Sea Lane: 7.3 NM
Distance to Nearest Telephone Cable: 33 NM
Clearance Requirement: 30 Feet above MLW
Nautical Miles
Environmental Protection
F-12-2000
(JOINS CHART 12211)



Existing Cape May Artificial Reef

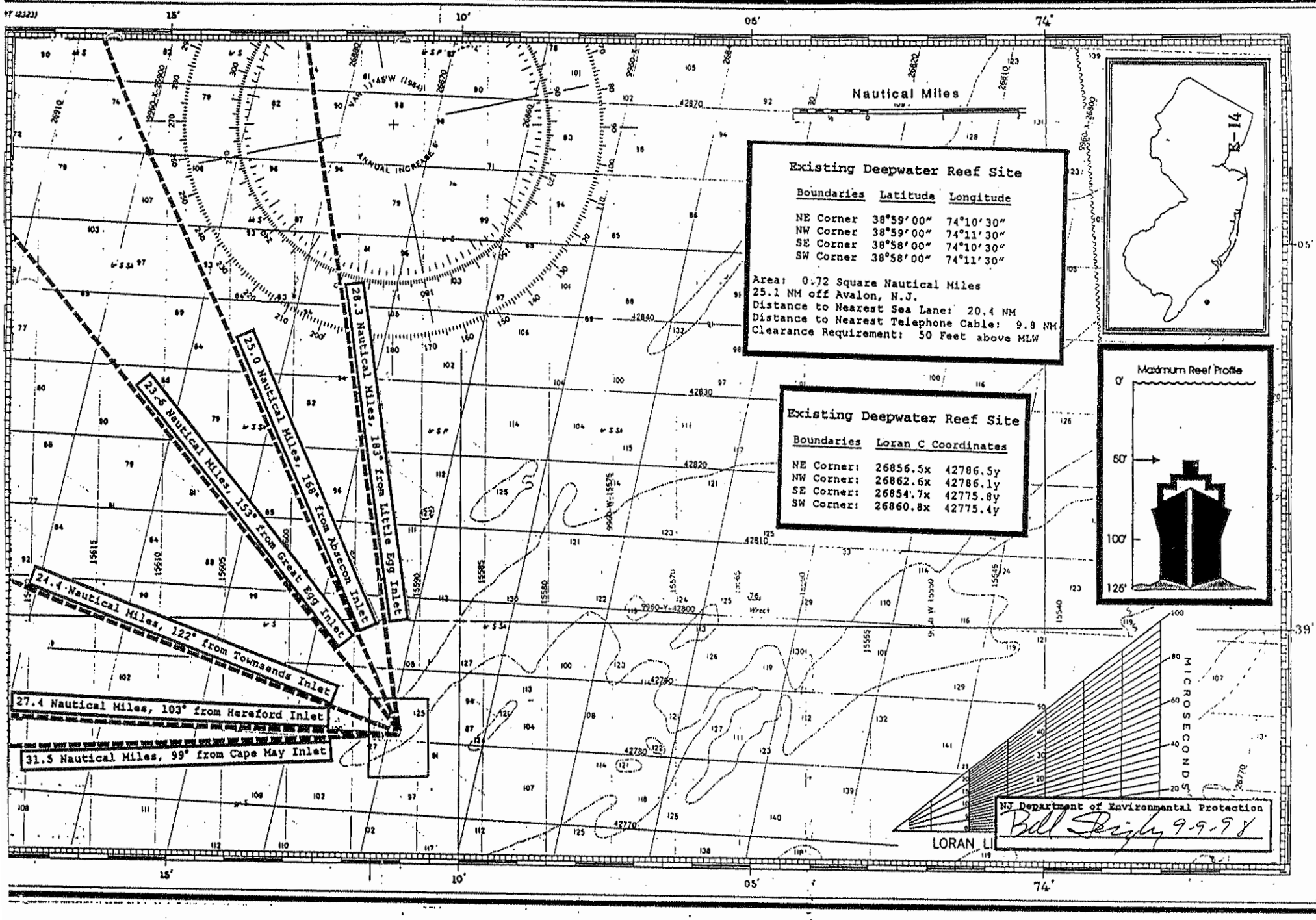
Boundaries	Latitude	Longitude
NE Corner	38°53'27"	74°39'26"
NW Corner	38°53'58"	74°40'37"
SE Corner	38°50'04"	74°42'15"
SW Corner	38°50'40"	74°43'15"

Area: 4.4 Square Nautical Miles
8.5 Nautical Miles off Wildwood, N.J.
Distance to Nearest Sea Lane: 0.8 NM
Distance to Nearest Telephone Cable: 32.2 NM
Clearance Requirement: 30 Feet above MLW

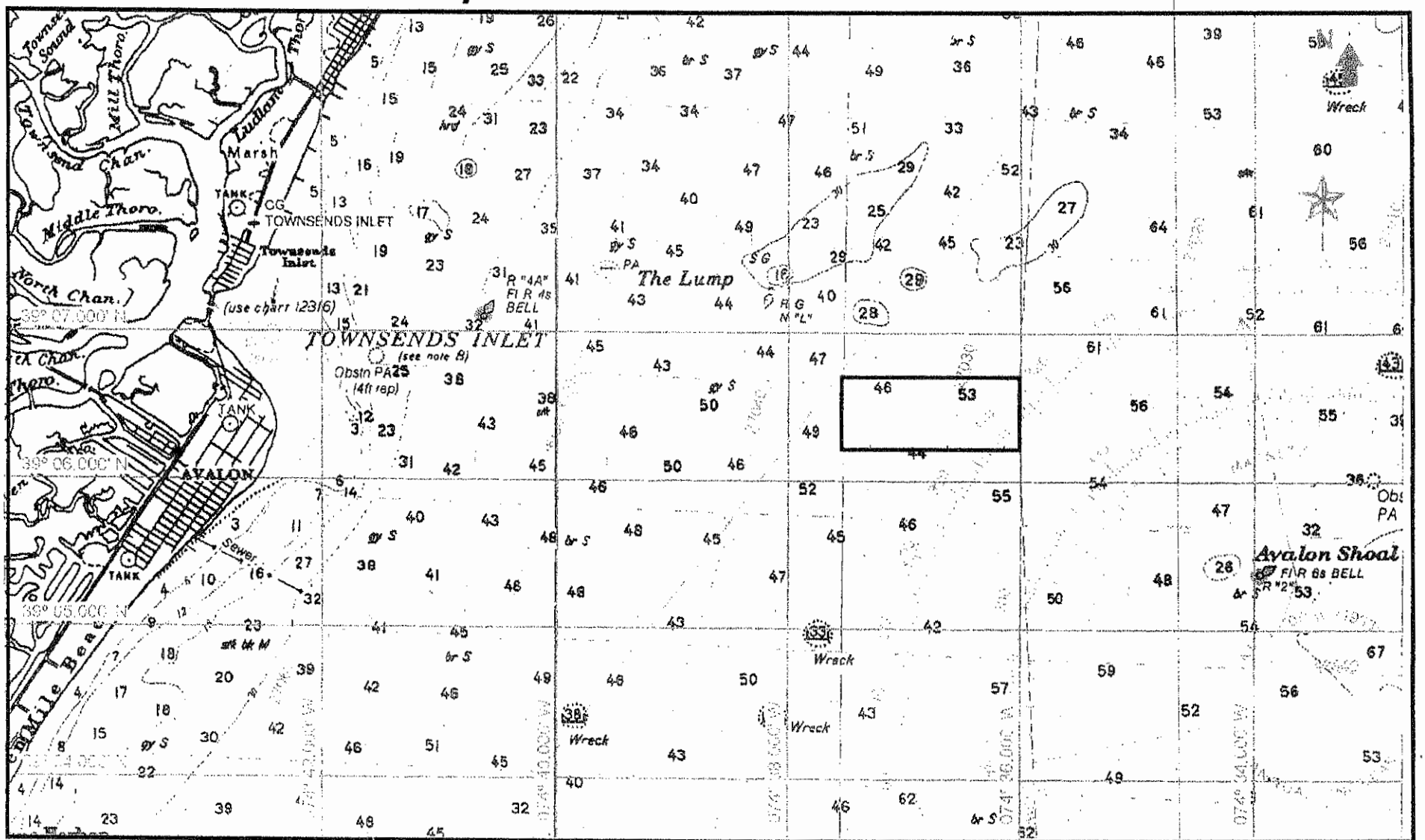
Existing Cape May Reef Site

Boundaries	Loran C Coordinates	
NE Corner:	27018x	42713y
NW Corner:	27026x	42719y
SE Corner:	27027x	42674y
SW Corner:	27034x	42679y

NJ Department of Environmental Protection
Bill Riley 9-9-98


Nautical Miles
Existing Deepwater Reef Site
Boundaries Latitude Longitude
NE Corner 38°59'00" 74°10'30"
NW Corner 38°59'00" 74°11'30"
SE Corner 38°58'00" 74°10'30"
SW Corner 38°58'00" 74°11'30"
Area: 0.72 Square Nautical Miles
25.1 NM off Avalon, N.J.
Distance to Nearest Sea Lane: 20.4 NM
Distance to Nearest Telephone Cable: 9.8 NM
Clearance Requirement: 50 Feet above MLW
Existing Deepwater Reef Site
Boundaries Loran C Coordinates
NE Corner: 26856.5x 42786.5y
NW Corner: 26862.6x 42786.1y
SE Corner: 26854.7x 42775.8y
SW Corner: 26860.8x 42775.4y
Maximum Reef Profile
0'
50'
100'
125'
E-14
28.3 Nautical Miles, 183° from Little Egg Inlet
25.0 Nautical Miles, 168° from Absecon Inlet
23.6 Nautical Miles, 153° from Great Egg Inlet
24.4 Nautical Miles, 122° from Townsends Inlet
27.4 Nautical Miles, 103° from Hereford Inlet
31.5 Nautical Miles, 99° from Cape May Inlet
MICROSECONDS
LORAN
NJ Department of Environmental Protection
Bill Brigley 9-9-98

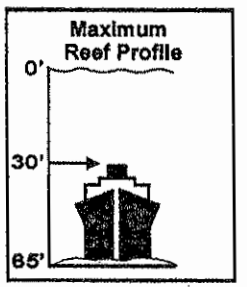
Proposed Townsends Inlet Reef Site



Corner	Latitude	Longitude
NE	39°06.70'	74°36.00'
NW	39°06.70'	74°37.50'
SE	39°06.25'	74°36.00'
SW	39°06.25'	74°37.50'

Reef Site Statistics

Area = 0.52 NM ^{2}
Distance Offshore = 3.8 NM
Nearest Sea Lane = 29.1 NM
Nearest Cable = 19.0 NM



Nautical Miles
0.00 0.50 1.00 1.50 2.00

N.J. Department.
Environmental Protection