

F00463

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

DESCRIPTIVE REPORT

Type of Survey FIELD EXAMINATION

Field No. _____

Registry No. F00463

LOCALITY

State NEW YORK AND NEW JERSEY

General Locality NEW YORK HARBOR

Locality CHART EVALUATION FOR

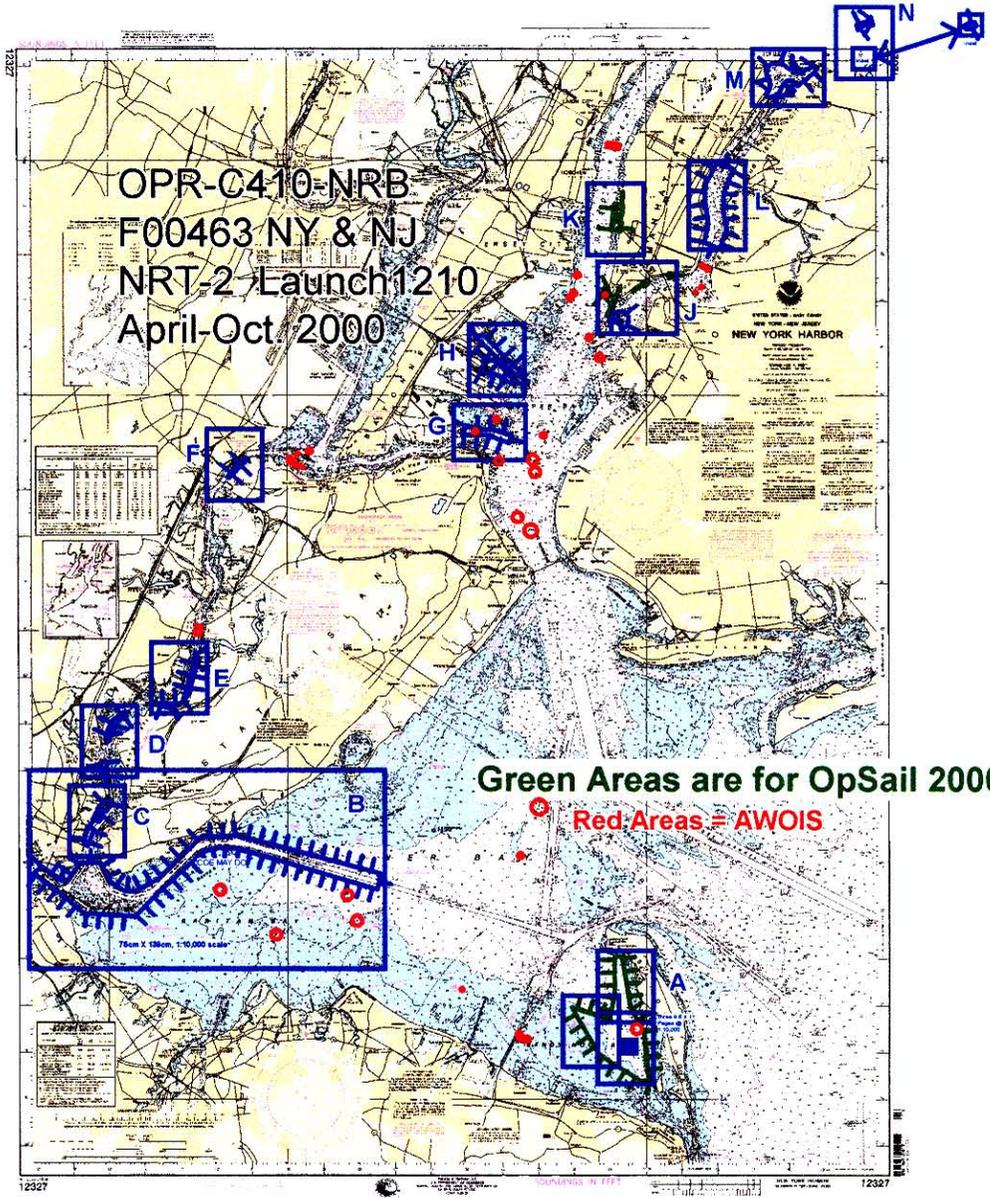
NEW YORK HARBOR

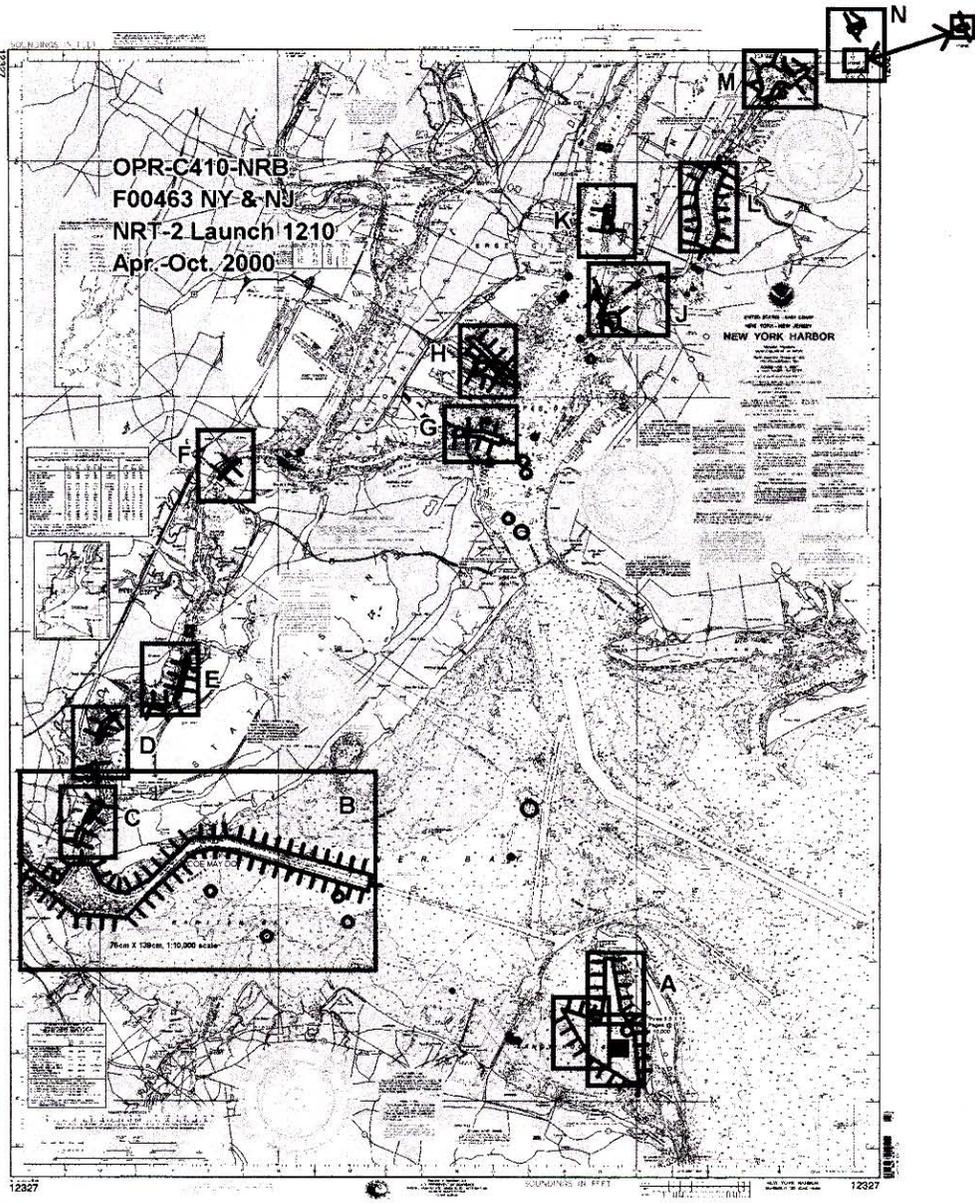
2000

CHIEF OF PARTY
CAPTAIN JOHN WILDER
NOAA - NSD

LIBRARY & ARCHIVES

DATE _____





HYDROGRAPHIC TITLE SHEET

F00463

INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

FIELD NO.

F00463

State New York and New Jersey

General locality New York Harbor

Locality Chart Evaluation for New York Harbor

Scale 1:10,000

Date of survey April 19, 2000 to September 22, 2000

dated 5-15-0

Project No. OPR-C410

Vessel Navigation Response Team- 2 , Launch 1210

Chief of party Capt. John Wilder - NOAA-NSD

Surveyed by David B. Elliott, Glenn D. Hendrix, Robert W. Ramsey

Soundings taken by echo sounder, hand lead, pole

by DBE, GDH, RWR

Graphic record checked by DBE, GDH, RWR

Protracted by N/A Atlantic Hydrographic Branch Personnel Automated plot by N/A HP DesignJet 2500 CP (Office)

Verification by HSD AHB Personnel

Soundings in xxx (feet) at xxx (MLLW)

REMARKS

Handwritten notes in the Descriptive Report were made during office processing.

FIELD EXAMINATION REPORT

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 - D.2 Additional Results

- E. APPROVAL SHEET

FIELD EXAMINATION REPORT
to Accompany
Hydrographic Survey F00463
OPR-C410-NRB
1:10,000 - 2000
NAVIGATION SERVICES DIVISION
Navigation Response Team 2 – Launch 1210
Capt. John Wilder, Chief - NOAA

This examination was conducted according to Port Instructions OPR-C410-NRT2, New York and New Jersey dated May 15, 2000. The area includes Approaches to New York Harbor, Sandy Hook and New Jersey.

The purpose of Field Examination F00463 is to acquire high accuracy positions on piers and other cultural features and to investigate and resolve discrepancies that exist on National Ocean Service (NOS) charts in New York and New Jersey. Results from the investigations will be used to provide information for nautical chart updates and ENC data capture for the inclusion to nautical and vector charts.

This project will also address requests from the OpSail 2000 committee and the 1st U.S. Coast Guard District for contemporary hydrography within New York Harbor and Sandy Hook Bay to ensure safe berthing for Tall Ships navigating in the OpSail 2000 event of July 4, 2000.

In addition, the project will address specific requests from the New York/ New Jersey Operations and Safety Committee, the United New Jersey – Sandy Hook Pilots Benevolent Association, and the United New York – Sandy Hook Pilots Benevolent Association for contemporary hydrography in portions of new York Harbor.

A. AREA SURVEYED

The sheet letter for this project was defined as: A, C through M. for the entire area surveyed.

The approximate survey area limits are:

North - ~~41~~^{40.44}°00'00"N
South - 40°25'00"N
East - 073°~~55~~⁵⁶'00"W
West - 074°~~17~~¹⁶'00"W

This survey was conducted from: April 19, 2000 (DN:110) to September 22, 2000 (DN:266).
This time frame includes hydrographic and ENC data capture.

B. DATA ACQUISITION AND PROCESSING

- See also Section B of the
E + A. Report

B1. Equipment

An Innerspace model 448 depth sounder, S/Ns 188 was used to collect all echo soundings on this survey. A standard lead line calibrated in meters, S/N 1210, was used during this survey for comparison with the echo sounder. No problems were encountered with any of the sounding equipment.

An Edge Tech model 260-TH image correcting side scan sonar recorder (S/N 020417) with a model 272-TD towfish (S/N 020892), was used throughout this survey. The side scan sonar equipment was used to conduct dual beam surveying and investigate AWOIS items.

A Starlink DGPS Beacon Receiver (S/N 795) and antenna (S/N 4132) were used as the remote station on launch 1210.

A Trimble Pathfinder ProXRS (S/N 0224010201) and antenna (S/N 0220170250) were used for all ENC high accuracy positioning and establishment of calibration points.

The instrument used for determining corrections for the speed of sound through the water column was a Seabird-Seacat Velocity Profiler, model 19-03, S/N 198671-1477.

NOAA launch 1210, a 27-foot SeaArk with a draft of 0.5 meters, was used to collect all survey data. There were no unusual vessel configurations or problems encountered with the vessel.

B2. Quality Control

The integrity of the survey data for F00463 has been insured by following the Field Procedures Manual and the NOS Hydrographic Surveys Specifications and Deliverables Manual, June 2000. Due to the nature of this survey as Chart Evaluation, percentages of crosslines were not calculated or specific to mainscheme hydrography.

The lead line for launch 1210 was calibrated using a steel tape on April 17, 2000. No corrections were necessary. A static draft of 0.5 meters was applied to the sounding plots by the HPS REAPPLY program. The draft was measured by subtracting the difference from a punch mark on the side of launch 1210, 0.6 meter above the transducer, to the water surface.

Settlement and squat measurements for launch 1210 were taken on April 17, 2000 (DN: 108). These measurements were conducted in New York Harbor, NY using the level method. Settlement and squat correctors were applied to the sounding plots using the HPS REAPPLY program.

Differential GPS (DGPS) was used for all hydrographic data acquired on this survey. DGPS performance checks were conducted in accordance with FPM 3.4.4 by comparing the DGPS position of the vessel to a high accuracy (1st order) calibration point.

A coverage of 200% was obtained in all the required survey areas and AWOIS items where water depth and/or hazards permitted. Side scan sonar coverage was conducted to the 12-foot depth curve and single beam reduced line spacing was performed in other areas where warranted. The towfish was deployed off the starboard quarter of the vessel, which proved very stable. Distorted images caused by strong tidal currents were seen periodically. All contacts and shadows were manually scaled and entered into a HPS contact table to determine the height off the bottom. The significant contacts were then compared by position, as well as common depth and relationship to channels to determine if further investigations were needed. All areas surveyed were track line/swath line plotted to insure complete coverage.

The system frequency used was 100 & 500 kHz. The recorder was set on one of either 50/75/100-meter range scales. There were no water depths greater than 35 meters. The confidence checks were performed daily at 100kHz.

Heavy surface tidal noise in the Sandy Hook Bay region of F00463 was noted on the echogram and sonograms while conducting hydrography. On several occasions work had to be terminated then resumed on a later date in the middle of tide ebb and flood.

B3. Corrections to Echo Soundings

There are no deviations to be discussed in this section. Refer to Section "C" Correction to Echo Soundings of the Data Acquisition and Processing Report.

*Data Filed with
Field Records*

C. VERTICAL AND HORIZONTAL CONTROL

The instrument used for determining corrections for the speed of sound through the water column was a Seabird-Seacat Velocity Profiler. The manufacturer calibrated this unit on December 28, 1999. Data quality assurance tests were performed after each cast. Program VELOCITY was used for computing the correctors. Corrections were applied to the sounding plot using the HPS REAPPLY program.

Field tide reduction of soundings is based on unverified actual heights from the Internet from stations The Battery, NY (851-8750), Sandy Hook, NJ (853-1680) and Willets Point, NY (851-6990). The values were downloaded from:

http://www.opsd.nos.noaa.gov/data_retrieve.shtml?input_code=101011111pwl.

Values and correctors were applied at the perspective locations of hydrography.

All elevations and soundings on survey F00463 are based on MLLW unless otherwise specified.

The horizontal control datum for this project is the North American Datum (NAD) of 1983 in UTM. The control reference station used for this survey was the USCG DGPS Sandy Hook, NJ (Station ID #804), located at 40°28'17.34"N, 074°00'41.74"W.

See also Section C of the E + A Report

D. RESULTS AND RECOMMENDATIONS

*D1. Chart Comparison *See E + A Report*

The following is a list of Charts compared during F00463:

Chart Number	Edition	Edition Date
12331	29 th	6/26/99
12333	30 th	12/13/97
12334	63 rd	12/6/97
12335	38 th	4/1/00
12337	22 nd	11/15/97
12339	42 nd	1/10/98
12401	6 th	1/15/00
12402	7 th	1/8/00

In general survey soundings compared favorably with the charted soundings. There are some areas of deepening at the north side of the Military Ocean Terminal, and shoaling on the south side. Other regions such as The Battery at Manhattan, Dimond Reef at Governors Island and Sandy Hook Bay, NJ are in good agreement with contemporary soundings within one to two feet.

See E + A Report

The designated-charted anchorages do not apply to this examination.

The maintained channel survey depths do not apply to this examination.

The following list by sheet letter will aid the verifier with general sounding comparison.

Sheet A = Agrees well with charted soundings. *Concur - See Sheet 1*

Sheet B = Agrees well within one to two feet. The 18 foot contour at 40°^{30'03.07}~~29'53.4~~"N, 74°^{12'16.3}~~12'09.52~~"W has receded to the west approximately 500 meters. **Note:** This survey was reduced in size do to an ongoing contract survey. The outer edges of the channel at West Raritan Reach that were not included in the contract, were surveyed at the Sandy Hook Pilots request. *See E + A Report Item 2 - Sheet 2*

Sheet C = Agrees well within one to two feet.

See E + A Report Sheet 3

Sheet D = Agrees well within one to two feet. With the exception of the 7 foot sounding at $40^{\circ} 33' 11.1''\text{N}$, $074^{\circ} 14' 35.7''\text{W}$, which is now 23 feet. See E+A Report Sheet 4

Sheet E = Agrees well within one to two feet. - See E+A Report Sheet 5

Sheet F = Agrees well within one to two feet. See E+A Report Sheet 6

Sheet G = Agrees well within one to two feet. See E+A Report Sheet 7

Sheet H = The 18 foot contour has receded approximately 230 meters southwest from $40^{\circ} 40' 25.4''\text{N}$, $074^{\circ} 04' 03.0''\text{W}$. The whitewater approach to Greenville rail yard has significant change where the 18 foot contour crosses a 22 foot sounding at $40^{\circ} 40' 21.7''\text{N}$, $074^{\circ} 03' 51.00''\text{W}$. There is significant shoaling in Claremont Terminal approach on the order of 5 to 7 feet noted from current charted soundings. Concur - See E+A Report Sheet 10

Sheet J = The 17 foot sounding at $40^{\circ} 42' 08.5''\text{N}$, $074^{\circ} 01' 08.5''\text{W}$, AWOIS # 10661, No longer exists and was disproved by sidescan sonar. The charted 15 foot at $40^{\circ} 42' 01.9''\text{N}$, $074^{\circ} 00' 55.5''\text{W}$, is now 19 foot. The 18 foot contour has receded to the northeast approximately 50 meters from $40^{\circ} 42' 12.8''\text{N}$, $074^{\circ} 01' 06.7''\text{W}$. Concur - See E+A Report Sheet 11

Sheet K = The 18 foot contour has closed off the region of white water south of pier 40 at $40^{\circ} 43' 39.7''\text{N}$, $074^{\circ} 00' 53.5''\text{W}$. The 18 foot contour has closed off the region of white water south of pier 46 at $40^{\circ} 44' 01.2''\text{N}$, $074^{\circ} 00' 49.3''\text{W}$. Concur - See E+A Report Sheet 13

Sheet L = There are 5 to 6 foot discrepancies throughout this region of Poorhouse Flats. There were numerous sidescan sonar investigations conducted in this region. Concur See E+A Report Sheet 11

Sheet M = There is general charted sounding agreement in Hell Gate and there are numerous soundings that are 6 to 10 foot deeper. This could be due to the reduced line spacing conducted in this region, because sidescan sonar could not be conducted in such strong and radical currents. This area is notorious for strong current and generally has a 10-15 minute ebb on a daily basis. Concur - See E+A Report Sheet 15

Sheet N = This region was not surveyed due to time constraints and termination of the survey. See E+A Report Sheet 13

Some areas listed above have controlling depths within the confines of the survey sheet. The hydrographers recommended sounding depths are in red on the ENC identifiers list included with this survey. These features fall within the 200 series of the listing and can be easily identified. Navigation Response Team 2 identified and surveyed as many as possible, however some regions could not be addressed during the six month survey assignment. See E+A Report

There were 46 AWOIS items assigned within this examination survey. All items could not be addressed due to time constraints. The only AWOIS items addressed were in the confines of contemporary survey sheet requests. These limited features (4) were investigated with single

beam and side scan sonar. The AWOIS database record was filed and electronically transmitted to HSD, the hard copy results are included with this report. *See E+A Report*

There were no Danger to Navigation reports submitted for this survey. *See E+A Report*

D2. Additional Results

Shoreline investigation was conducted by comparison with the vector data set for ENC corrections. High accuracy DGPS positions were acquired on many commercial facilities. The majority of the ENC identifiers were visually identified as "existing as charted" (EAC) in regions that could not be accessed safely or where permission to piers and terminals was denied. The ENC identifiers list is included with this survey and will be a helpful tool during verification of shoreline features. *See E+A Report*

There were no Prior Survey comparisons conducted by the hydrographer for F00463. *CONCUR*

All Navigation Aids serve their intended purpose. The ranges in NY Harbor were positioned during ENC data collection. *CONCUR*

There are numerous bridges, cables, pipelines, and crossing signs throughout the survey area. These regions were visually identified and compared to the raster and vector charts. The status of horizontal and vertical clearances is in good agreement with all charted notes. *CONCUR*

Ferry routes are accurately charted and require no changes or additions to the charts. *CONCUR*

There are ongoing dredging operations in the Kill Van Kull region of Staten Island. These areas are maintained by the U.S. Army Corps of Engineers and are limited to the maintained channel. *CONCUR*

E. APPROVAL SHEET

Attached next page.

APPROVAL SHEET
OPR-C410-NRB
Field Examination - F00463
New York & New Jersey
NRT-2 Launch 1210
2000

This Field Examination survey is complete and adequate for its intended purpose, which included Electronic Navigational Chart data capture (ENC), contemporary soundings and sidescan sonar hydrographic operations requested by USCG, Sandy Hook Pilots and Operation Sail Committee members for OpSail 2000. The survey includes a Field Examination Report (ie. Descriptive Report), digital data and all accompanying records.

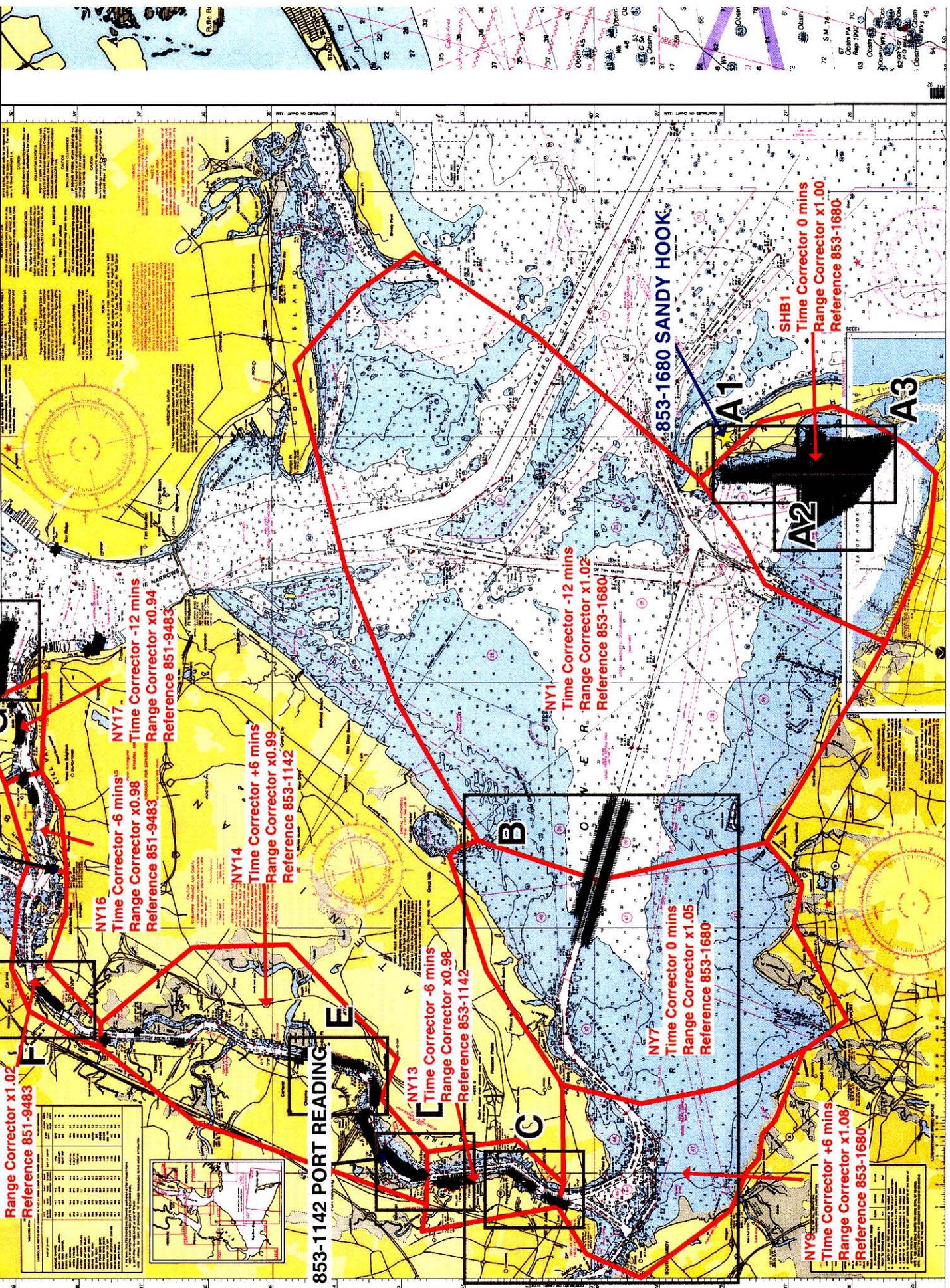
There were numerous AWOIS items that could not be investigated due to the field season termination of six months.

The following reports are included with this submission:

Data Acquisition and Processing Report	October 2000
Vertical and Horizontal Control Report	October 2000
Tides and Water Level Package	October 2000
ENC Identifiers Listing	October 2000

Approved by:  David B. Elliott – Team Leader
NOAA-Navigation Response Team 2

Final Tidal Zoning for OPR-C410-NRT2-2000 New York, NY - Sheet F00463



851-9483 BERGEN POINT

NY15
Time Corrector 0 mins
Range Corrector x1.02
Reference 851-9483

NY16
Time Corrector -6 mins^s
Range Corrector x0.98
Reference 851-9483

NY17
Time Corrector -12 mins
Range Corrector x0.94
Reference 851-9483

NY14
Time Corrector +6 mins
Range Corrector x0.99
Reference 853-1142

853-1142 PORT READING

NY13
Time Corrector -6 mins
Range Corrector x0.98
Reference 853-1142

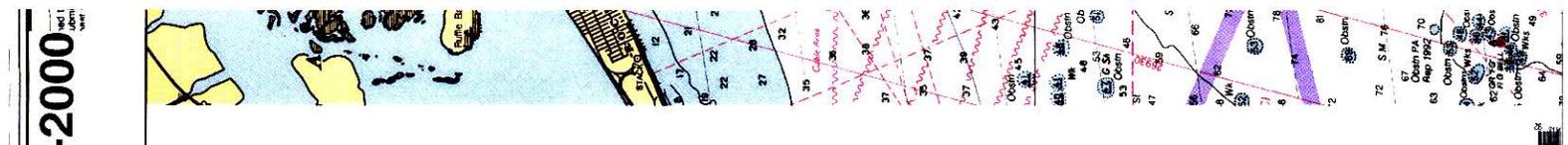
NY1
Time Corrector -12 mins
Range Corrector x1.02
Reference 853-1680

NY7
Time Corrector 0 mins
Range Corrector x1.05
Reference 853-1680

NY9
Time Corrector +6 mins
Range Corrector x1.08
Reference 853-1680

853-1680 SANDY HOOK

SHB1
Time Corrector 0 mins
Range Corrector x1.00
Reference 853-1680



LETTER TRANSMITTING DATA

DATA AS LISTED BELOW WERE FORWARDED TO YOU BY (Check)

- ORDINARY MAIL
- REGISTERED MAIL
- GBL (Give number) _____
- AIR MAIL
- EXPRESS

TO:

CHIEF, DATA CONTROL GROUP, N/CS3x1
 NOAA / NATIONAL OCEAN SERVICE
 STATION 6815, SSMC3
 1315 EAST-WEST HIGHWAY
 SILVER SPRING, MARYLAND 20910-3282

DATE FORWARDED 03/28/2005

NUMBER OF PACKAGES 1

NOTE: A separate transmittal letter is to be used for each type of data, as tidal data, seismology, geomagnetism, etc. State the number of packages and include an executed copy of the transmittal letter in each package. In addition the original and one copy of the letter should be sent under separate cover. The copy will be returned as a receipt. This form should not be used for correspondence or transmitting accounting documents.

F00463

NEW YORK AND NEW JERSEY, NEW YORK HARBOR

ONE TUBE CONTAINING THE FOLLOWING:

- 1 ORIGINAL DESCRIPTIVE REPORT FOR SURVEY F00463 WITH 34 PAGE-SIZED SMOOTH SHEET PLOTS
- 2 LARGER THAN PAGE-SIZED SMOOTH SHEET PLOTS
- 9 H-DRAWINGS ON MYLAR FOR CHARTS 12331, 12333, 12334, 12335, 12337, 12339, 12341, 12401 AND 12402
- 1 RECORD OF APPLICATION TO CHART FORM (NOAA FORM #75-96) FOR SURVEY F00463

FROM: (Signature)

Daniel A. Blum

RECEIVED THE ABOVE
(Name, Division, Date)

Return receipted copy to:

NOAA \ NATIONAL OCEAN SERVICE
 ATLANTIC HYDROGRAPHIC BRANCH N/CS33
 439 WEST YORK STREET
 NORFOLK, VA. 23510-1114



TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: March 14, 2001

HYDROGRAPHIC BRANCH: Atlantic
HYDROGRAPHIC PROJECT: OPR-C410-NRT2-2000
HYDROGRAPHIC SHEET: F00463

LOCALITY: New York, NY
TIME PERIOD: April 19 - September 22, 2000

TIDE STATION USED: 851-8750 The Battery, NY
Lat. $40^{\circ} 42.0'N$ Lon. $74^{\circ} 0.9'W$
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.457 meters

TIDE STATION USED: 851-9483 Bergen Point, NY
Lat. $40^{\circ} 38.2'N$ Lon. $74^{\circ} 8.5'W$
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.594 meters

TIDE STATION USED: 853-1142 Port Reading, NJ
Lat. $40^{\circ} 33.3'N$ Lon. $74^{\circ} 14.7'W$
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.677 meters

TIDE STATION USED: 853-1680 Sandy Hook, NJ
Lat. $40^{\circ} 28.0'N$ Lon. $74^{\circ} 0.6'W$
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.481 meters

REMARKS: RECOMMENDED ZONING

Use zone(s) identified as: SHB1, HR1, HR2, NY1, NY7, NY9,
NY13, NY14, NY15, NY16, NY17, NY18, NY19, NY21, NY22, NY23,
NY24, NY25, NY26, NY27, NY28, NY29, NY30, NY31, NY32 & NY33





UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SERVICE
Silver Spring, Maryland 20910

TIDE NOTE FOR HYDROGRAPHIC SURVEY Sheet F00463 cont.

Refer to attachments for zoning information.

Note 1: Provided time series data are tabulated in metric units (meters), relative to MLLW and on Greenwich Mean Time.

Note 2: Use tide data from the appropriate station with applicable zoning correctors for each zone according to the order in which they are listed in the Tidezone corrector files.

Thomas A. Mero 3/14/01

CHIEF, REQUIREMENTS AND DEVELOPMENT DIVISION



**ATLANTIC HYDROGRAPHIC BRANCH
EVALUATION REPORT FOR FE463 (2000)**

This Evaluation Report has been written to supplement and/or clarify the original Descriptive Report. Sections in this report refer to the corresponding sections of the Descriptive Report.

B. AUTOMATED DATA ACQUISITION AND PROCESSING

The following software was used to process data at the Atlantic Hydrographic Branch:

Hydrographic Processing System (HPS)
NADCON, version 2.10
SITE WORKS, version 02.01.02.00
MicroStation 95, version 5.05
I/RAS B, version 5.01
GPS Pathfinder Software

The smooth sheet was plotted using an Hewlett-Packard DesignJet 2500CP plotter.

C. CONTROL STATIONS

Horizontal control used for this survey during data acquisition is based upon the North American Datum of 1983 (NAD 83). Office processing of this survey is based on these values.

All geographic positions listed in this report are on NAD 83 datum unless otherwise specified.

D. COMPARISON WITH CHART

<u>CR 2241</u>	<u>12331 (30th Edition, Dec 02)</u>
<u>CR 2239</u>	<u>12333 (33rd Edition, Sep 03)</u>
<u>CR 2238</u>	<u>12334 (66th Edition, May 03)</u>
<u>CR 2237</u>	<u>12335 (40th Edition, Sep 03)</u>
<u>CR 2235</u>	<u>12337 (22nd Edition, Nov 15/97)</u>
<u>CR 2233</u>	<u>12339 (44th Edition, Oct 03)</u>
<u>CR 2232</u>	<u>12341 (26th Edition, Jun 03)</u>
<u>CR 2246</u>	<u>12401 (7th Edition, May 02)</u>
<u>CR 2247</u>	<u>12402 (8th Edition, May 02)</u>

Hydrography

The charted hydrography originates with prior surveys and miscellaneous sources. The hydrographer makes adequate chart

comparisons in section D. of the Descriptive Report. The following should be noted.

CHART 12402 - No compilation or Smooth Sheet necessary

1) ENC #505, the charted inbound course for the Ambrose Channel range line in the vicinity of Latitude 40°33'08.0"N, Longitude 74°04'46.5"W, was verified as 296°58' True for Ambrose Channel range line. No change in charting is recommended.

2) ENC #506, the charted inbound course for the Swash Channel range line in the vicinity of Latitude 40°33'59.0"N, Longitude 74°07'23.5"W, was verified as 305° True for Swash Channel range line. No change in charting is recommended.

Sheet One Chart 12401

1) AWOIS Item #10648, an obstruction subm dols (rep 1985), in Latitude 40°26'30.4"N, Longitude 74°00'16.5"W, originates with Local Notice to Mariners 25 of 1985 (LNM25/85) as two sets of dolphins and revised to submerged dolphins on the 84th Edition of NOS Chart 12327 in December of 1991. This item was disproved by 200 percent side scan sonar. It is recommended that the charted note be deleted and the area charted as shown on the present survey.

2) ENC 324, the charted Jetty Light at Highland Breakwater, in the vicinity of Latitude 40°25'07.23"N, Longitude 74°01'10.44"W, originates with an unknown source. The light was verified by the hydrographer as being charted correctly. No change in charting is recommended.

3) ENC 514, a charted note, 8 ft rep 1993, in the vicinity of Latitude 40°25'02.72"N, Longitude 74°02'00.0"W, originates with an unknown source. The hydrographer did not verify or disprove this note. No change in charting status is recommended.

4) ENC #513, the charted range for the West Bank range line in the vicinity of Latitude 40°29'11.50"N, Longitude 74°02'39.0"W, was verified. No change in charting status is recommended.

5) A charted note, Shoaling to 16 ft reported July 1983, in the vicinity of Latitude 40°26'09"N, Longitude 74°00'35"W, originates with an unknown source. The shoaling was disproved by 200 percent side scan sonar. It is recommended that the note be

deleted and the area be charted as shown on the present survey.

6) A charted note, 4 ft reported 1999, in the vicinity of Latitude 40°26'37.5"N, Longitude 74°00'12.5"W, originates with an unknown source. This shoal was disproved by 200 percent side scan sonar. It is recommended that the note be deleted and the area be charted as shown on the present survey.

7) An uncharted obstruction with a depth of 17 ft, in Latitude 40°26'03.60"N, Longitude 74°00'22.31"W, was located by the field unit. It is recommended that the feature be charted as shown on the present survey.

8) An uncharted obstruction, with a depth of 16 ft, in Latitude 40°25'54.10"N, Longitude 74°00'39.54"W, was located by the field unit. It is recommended that the feature be charted as shown on the present survey.

Sheet Two Charts 12331 and 12401

1) Four floating aids and one fixed aid to navigation are within the limits of this smooth sheet. The positions were extracted from the survey records and inserted into the digital file during office processing. These aids appear adequate to serve their intended purpose.

2) There were no comparisons made with tabulated controlling depths in the Raritan Bay West Reach channel because the hydrographer did not survey the channel.

3) A charted depth 14-ft, in the vicinity of Latitude 40°30'03.93"N, Longitude 74°09'52.8"W, is considered disproved by present survey 200% side scan sonar investigation. Present survey depths range from 20 to 21 feet. It is recommended that the depth be deleted and area charted as shown on the present survey.

Sheet Three Chart 12331

1) An uncharted obstruction with a least depth of 29 feet, in Latitude 40°30'32.64"N, Longitude 74°15'35.72"W, was located by the hydrographer. It is recommended that the feature be charted as shown on the present survey.

2) The charted submerged ruins, in the vicinity of Latitude

40°30'44.03"N, Longitude 74°15'31.01"W, originates with an unknown source. The ruins extend farther offshore than the charted limits. It is recommended that the feature be revised to reflect the present survey delineation. It is also recommended that the note, cov 29 ft, be added to the chart in the area of the offshore end of the submerged ruins.

3) ENC 237, a charted note 37 ft rep 1972-77, in the vicinity of Latitude 40°31'16.5"N, Longitude 74°15'00.0"W, has been revised to 37 ft rep 1999 on chart 12331, 30th Ed., Dec/02. This note originates with an unknown source and was disproved. A 35 foot depth was located in Latitude 40°31'16.57"N, Longitude 74°14'58.27"W. It is recommended that the 37 ft rep 1999 note be revised to 35 ft 2000 to reflect the findings of the present survey.

4) ENC 238, a charted note, 19 ft rep 1976, in the vicinity of Latitude 40°30'28"N, Longitude 74°15'40"W. This item originates with an unknown source and was verified by the present survey. A 19 foot depth was located in Latitude 40°30'26.45"N, Longitude 74°15'40.48"W. It is recommended that the charted note be deleted and the area charted as shown on the present survey.

5) ENC 1546, charted pier ruins, in the vicinity of Latitude 40°31'16.0"N, Longitude 74°15'03.5"W, originate with an unknown source. The area was visually inspected by the hydrographer and a pier was located. The feature is presently charted intact. The pier is shown on chart 12331, 30th Ed., Dec./02. It is recommended that the pier be retained as charted.

6) ENC 1561, pier, in the vicinity of Latitude 40°30'12.5"N, Longitude 74°15'45.5"W. The pier was found intact. The surrounding area has changed. A new breakwater, in the vicinity of Latitude 40°30'13.5"N, Longitude 74°15'43.5"W, has been constructed. This feature is shown on chart 12331, 30th Ed., Dec./02. It is recommended that the breakwater be charted as shown on the present survey.

7) A charted pier, in the vicinity of Latitude 40°30'21.8"N, Longitude 74°15'43.3"W, originates with an unknown source. The pier was reconstructed into a breakwater in the vicinity of Latitude 40°30'21.8"N, Longitude 74°15'43.5"W. It is recommended the charted feature be deleted, and the breakwater be charted as shown on present survey.

8) A charted 22-ft depth in the vicinity of Latitude 40°30'46.1"N, Longitude 74°15'29.9"W, originates with an unknown source and was neither verified nor disproved by the present survey. Present survey depth in this area range from 29 to 32 feet. No change in charting status is recommended.

9) A charted 27-ft depth, in the vicinity of Latitude 40°30'43.0"N, Longitude 74°15'31.8"W, originates with an unknown source and was neither verified nor disproved by the present survey. Present survey depth in this area range from 31 to 34 feet. No change in charting status is recommended.

10) There are no conflicts in controlling depths between the present survey and tabulated depths in the portion of the Outerbridge Reach and Ward Point Bend (West) Channels covered by the present survey.

Sheet Four Chart 12331

1) A charted 7-ft depth, in the vicinity of Latitude 40°33'11.2"N, Longitude 74°14'35.9"W, originates with an unknown source and was neither verified nor disproved by the present survey. Present survey depth in this area range from 21 to 24 feet. This shallow depth was neither verified nor disproved by the present survey. No change in charting status is recommended.

2) A charted 9-ft depth, in the vicinity of Latitude 40°32'45.8"N, Longitude 74°15'03.0"W, originates with an unknown source and was neither verified nor disproved by the present survey. Present survey depth in this area range from 11 to 17 feet. No change in charting status is recommended.

3) A charted dolphin, in the vicinity of Latitude 40°32'05.80"N, Longitude 74°15'12.75"W, originates with an unknown source. The feature was neither visually verified nor disproved by the present survey. It is recommended that the charted feature be revised to a submerged dolphin.

4) A charted 19-ft depth, in the vicinity of Latitude 40°31'56.7"N, Longitude 74°15'07.5"W, originates with an unknown source and was neither verified nor disproved by the present survey. Present survey depth in this area range from 26 to 36 feet. No change in charting status is recommended.

5) A charted boom, in the vicinity of Latitude 40°31'56.0"W, Longitude 74°15'09.5"W, originates with an unknown

source and was neither verified nor disproved by the hydrographer. No change in charting status is recommended.

6) ENC 228, a charted note 17 ft rep 1988, in the vicinity of Latitude $40^{\circ}32'26.50''N$, Longitude $74^{\circ}15'15''W$. The note has been revised to 16 ft rep 1999 on chart 12331, 30th Ed., Dec./02. This note originates with an unknown source and was not investigated during the present survey. No change in charting status is recommended.

7) ENC 229, a charted note 32 ft rep 1988, in the vicinity of Latitude $40^{\circ}32'19.5''N$, Longitude $74^{\circ}15'10.0''W$, has been revised to 32 ft rep 1999 on chart 12331, 30th Ed., Dec./02. This note originates with an unknown source. Present survey depths disprove the charted note. It is recommended that the note be deleted from the chart, and the area be charted as shown on the present survey.

8) ENC 230, a charted note, 16 ft rep 1988, in the vicinity of Latitude $40^{\circ}32'17.5''N$, Longitude $74^{\circ}15'14.0''W$, has been revised to 16 ft rep 1999 on chart 12331, 30th Ed., Dec./02. This note originates with an unknown source. The basin was not thoroughly investigated by the hydrographer; however, a 12 foot depth was located, in Latitude $40^{\circ}32'16.48''N$, Longitude $74^{\circ}15'14.17''W$. It is recommended that the charted note be revised to 12 ft 2000.

9) ENC 231, a charted note, 28 ft rep 1988, in the vicinity of Latitude $40^{\circ}32'09.5''N$, Longitude $74^{\circ}15'13.5''W$, was revised to 28 ft rep 1999 on chart 12331, 30th Ed., Dec./02. This note originates with an unknown source. Present survey depths disprove the charted note. It is recommended that the note be deleted from the chart, and the area be charted as shown on the present survey.

10) ENC 232, a charted note, 34 ft rep 1988, in the vicinity of Latitude $40^{\circ}32'27.5''N$, Longitude $74^{\circ}15'12.0''W$, was revised to 34 ft rep 1999 on chart 12331, 30th Ed., Dec./02. This item originates with an unknown source and was neither verified nor disproved by present survey. No change in charting status is recommended.

11) ENC 233, a charted note 37 ft rep 1988, in the vicinity of Latitude $40^{\circ}32'03.50''N$, Longitude $74^{\circ}15'08.50''W$, was revised to 37 ft rep 1999 on chart 12331, 30th Ed., Dec./02. This item originates with an unknown source and was neither verified nor

disproved by present survey. No change in charting status is recommended.

12) ENC 234, a charted note 23 ft rep 1988, in the vicinity of Latitude 40°32'01"N, Longitude 74°15'10"W, was revised to 35 ft rep 1999 on chart 12331, 30th Ed., Dec./02. This item originates with an unknown source and was not investigated during the present survey. No change in charting status is recommended.

13) ENC 235, a charted 20 ft depth note in the vicinity of Latitude 40°31'58.0"N, Longitude 74°15'11.5"W, originates with an unknown source and was not investigated during the present survey. No change in charting status is recommended.

14) ENC 236, a charted 20 ft depth note in the vicinity of Latitude 40°31'56.4"N, Longitude 74°15'11.8"W, originates with an unknown source and was disproved by the present survey with a fathometer development. It is recommended that charted note be deleted from the chart and the area be charted as shown on the present survey.

15) ENC 507, the charted course for the Port Scony Reach/Outerbridge Reach Channel range line, in the vicinity of Latitude 40°33'10.0"N, Longitude 74°15'13.0"W, was verified. No change in charting status is recommended.

16) ENC 510, the charted course for the New York Harbor Hess Dock Range Front Light (priv maintained), in the vicinity of Latitude 40°32'15.50"N, Longitude 74°15'16.50"W, was investigated by the hydrographer. The light does not exist. It is recommended that Marine Chart Division (MCD) personnel investigate this feature and determine the appropriate charting disposition.

17) ENC's 1039 and 1040, charted Piles rep, in the vicinity of Latitude 40°32'54.50"N, Longitude 74°15'11.50"W, and Latitude 40°32'52.5"N, Longitude 74°15'13.0"W, originate with an unknown source. The hydrographer noted privately markers. It is recommended that the piles be retained as charted and that the 'rep' be removed. It is also recommended that MCD personnel investigate this feature and determine the appropriate charting disposition.

18) The charted position of Red Nun 14A buoy, in the vicinity of Latitude 40°33'15.75"N, Longitude 74°14'31.62"W, was verified by the hydrographer. This aid appears adequate to serve

its intended purpose.

19) There are no conflicts in controlling depths between the present survey and tabulated depths in the portion of the Port Socony Reach Channel covered by the present survey.

Sheet Five Chart 12331

1) A charted dangerous sunken wreck, in the vicinity of Latitude 40°33'25.5"N, Longitude 74°13'06.3"W, originates with an unknown source. During office processing, a dangerous sunken wreck with a depth of 25 feet, in Latitude 40°33'25.38"N, Longitude 74°13'05.46"W, was noted on side scan sonargrams. It is recommended that a foul limit line and the note foul with wreckage and ruins be charted. It is also recommended that the charted feature be deleted.

2) A charted visible wreck, in the vicinity of Latitude 40°33'34.7"N, Longitude 74°12'50.0"W, originates with an unknown source and was neither verified nor disproved by present survey. No change in charting status is recommended.

3) A charted dangerous sunken wreck, in the vicinity of Latitude 40°33'24.0"N, Longitude 74°13'35.1"W, originates with an unknown source and was neither verified nor disproved by the present survey. No change in charting status is recommended.

4) ENC 219, a charted note, 10 ft 1993, in the vicinity of Latitude 40°34'34.5"N, Longitude 74°12'41.0"W, originates with an unknown source and is considered disproved by the present survey. It is recommended note be deleted from the chart and the area be charted as shown on the present survey.

5) ENC 220, an uncharted note, 12 ft rep, in the vicinity of Latitude 40°33'36.5"N, Longitude 74°13'49.5"W, originates with an unknown source and was disproved by the present survey. It is recommended that the area be charted as shown on the present survey.

6) ENC 221, a charted note, 37 ft 1973, in the vicinity of Latitude 40°33'24.5"N, Longitude 74°13'22.5"W, has been revised to 40 ft rep 1999 on chart 12331, 30th Ed., Dec./02. The note originates with an unknown source and is considered disproved by the present survey. It is recommended that the note be deleted from the chart and the area be charted as shown on the present survey.

7) ENC 222, a charted note, 35 ft 1977, in the vicinity of Latitude $40^{\circ}33'31.5''N$, Longitude $74^{\circ}14'05.0''W$, has been revised to 35 ft rep 1999 on the current edition of the chart and originates with an unknown source and was disproved by the present survey. It is recommended that the 35 ft rep 1999 depth note be deleted from the chart and charted as shown on the present survey.

8) ENC 223, a charted note 34 ft Aug 1976 - Oct 1977, in the vicinity of Latitude $40^{\circ}33'25''N$, Longitude $74^{\circ}14'25''W$, has been revised to 35 ft rep 1999 on chart 12331, 30th Ed., Dec./02. This item originates with an unknown source and was disproved by the present survey. It is note be deleted from the chart and charted as shown on the present survey.

9) ENC 810, charted wharf, in the vicinity of Latitude $40^{\circ}34'17''N$, Longitude $74^{\circ}12'46''W$, were visually identified as "ruins". It is recommended that the charted feature be charted as shown on the present survey.

10) ENC 1516, charted pier, in the vicinity of Latitude $40^{\circ}34'37.5''N$, Longitude $74^{\circ}12'42.5''W$, were visually verified by the hydrographer and found to be in ruins. It is recommended that the charted pier delineation be revised to dashed lines and the note ruins added as shown on the smooth sheet.

11) ENC 1517, charted pier, in the vicinity of Latitude $40^{\circ}34'33.9''N$, Longitude $74^{\circ}12'43.1''W$, were visually verified by the hydrographer and found to be in ruins. It is recommended that the charted pier delineation be revised to dashed lines and the note ruins added as shown on the smooth sheet.

12) ENC 1523, charted pier, in the vicinity of Latitude $40^{\circ}33'59.0''N$, Longitude $74^{\circ}12'52.5''W$, was identified as "ruins". It is recommended that the area be charted as shown on the present survey.

13) There are no conflicts in controlling depths between the present survey and tabulated depths in the portion of the Port Reading Reach and Fresh Kills Reach Channels covered by the present survey.

Sheet Six Chart 12333

1) ENC 256, a charted note, 12 ft rep in the vicinity of Latitude $40^{\circ}37'07.0''N$, Longitude $74^{\circ}12'07.5''W$, originates with an

unknown source and was verified by the present survey. It is that the note be deleted, and the area be charted as shown on the present survey.

2) ENC 257, a charted note, 15 ft rep 1979, in the vicinity of Latitude 40°36'29.0"N, Longitude 74°12'20.0"W, originates with an unknown source and was disproved. It is recommended that the note be deleted, and the area be charted as shown on the present survey.

3) ENC 258, a charted note, 25 ft rep 1993, in the vicinity of Latitude 40°37'36.5"N, Longitude 74°12'18.0"W, originates with an unknown source and was verified. It is that the note be deleted, and the area be charted as shown on the present survey.

4) ENC 259, a charted note, 25 ft rep 1993, in the vicinity of Latitude 40°37'34.8"N, Longitude 74°12'18.9"W, originates with an unknown source and was verified. It is that the note be deleted, and the area be charted as shown on the present survey.

5) ENC 260, a charted note, 25 ft rep 1993, in the vicinity of Latitude 40°37'33.1"N, Longitude 74°12'19.1"W, originates with an unknown source and was neither verified nor disproved. No change in charting status is recommended.

6) ENC 519, the charted course for the Pralls Island Reach range, in the vicinity of Latitude 40°36'08.0"N, Longitude 74°12'18.0"W, was verified. No change in charting status is recommended.

7) ENC 1664, pier, in the vicinity of Latitude 40°35'52.0"N, Longitude 74°12'05.0"W, was identified as "ruins". It is recommended that the charted pier delineation be revised to dashed lines and the note ruins added as shown on the present survey.

8) There are no conflicts in controlling depths between the present survey and tabulated depths in the portion of the Port Pralls Island Reach and the Gulfport Reach Channels covered by the present survey.

Sheet Seven Chart 12333

1) An uncharted obstruction, with a depth of 35 feet, in Latitude 42°38'31.3"N, Longitude 74°11'22.3"W, was noted during office processing. It is recommended that the feature be charted

Should be corrected to
40 degrees 38 minutes 31.3
D.N. 6-21-2005

as shown on the present survey. The feature does not in conflict with the controlling depth for the Elizabethport Reach Channel.

2) ENC 1078, edge and position shoreline, in the vicinity of Latitude 40°38'42.5"N, Longitude 74°11'16.5"W, was delineated. The correct portrayal of this shoreline is being shown in red on the present survey. It is recommended that the charted shoreline be charted as shown on the present survey.

3) There are no conflicts in controlling depths between the present survey depth and tabulated depths in common area of Elizabethport Reach Channel.

Sheet Eight Chart 12333

1) AWOIS Item #10630, charted rocks with a depth of 27 feet, in the vicinity of Latitude 40°38'50.68"N, Longitude 74°06'52.71"W, originate with an unknown source and were neither verified nor disproved by the present survey. No change in charting status is recommended.

2) AWOIS Item #10639, a charted rock with a depth of 27 feet, in the vicinity of Latitude 40°38'55.2"N, Longitude 74°05'42.0"W, originates with an unknown source. During office processing, a rock with a least depth of 27 feet, in Latitude 40°38'54.83"N, Longitude 74°05'43.2"W, was noted. It is recommended that the charted feature be deleted and a rock with a depth of 27 feet, be charted as shown on the present survey.

3) A charted note, 18 ft rep 1999, in the vicinity of Latitude 40°39'03"N, Longitude 74°05'30"W, originates with an unknown source and was investigated and is considered disproved. It is recommended that the note be deleted, and the area be charted as shown on the present survey.

4) ENC 252, a charted note, 35 ft 1990, in the vicinity of Latitude 40°38'54"N, Longitude 74°05'55"W, note has been revised to 37 ft rep 1999 on chart 12333, 33rd Ed., Sep/03. The item originates with an unknown source and was disproved. It is recommended that the charted note be deleted, and the area be charted as shown on the present survey.

5) ENC 253, a charted note, 39 ft 1990, in the vicinity of Latitude 40°38'55.0"N, Longitude 74°06'07.0"W, has been revised to 38 ft rep 1999 on chart 12333, 33rd Ed., Sep/03. This item originates with an unknown source and was disproved. It is

recommended that the charted note be deleted, and the area be charted as shown on the present survey.

6) ENC 254, a charted note, 29 ft 1990, in the vicinity of Latitude 40°38'52.50"N, Longitude 74°07'00.50"W, has been revised to 26 ft rep 1999 on chart 12333, 33rd Ed., Sep/03. The item originates with an unknown source and was disproved. It is recommended that the charted note be deleted, and the area be charted as shown on the present survey..

7) ENC 255, a charted note, 31 ft 1990, in the vicinity of Latitude 40°38'42.5"N, Longitude 74°07'20.0"W, originates with an unknown source and was verified. It is recommended that the charted note be deleted and the area be charted as shown on the present survey.

8) Two charted visible piles, in the vicinity of Latitude 40°38'55.8"N, Longitude 74°05'44.5"W, originate with an unknown source and were visually verified in ruin. The area has been revised subsequent to the present survey and is shown on chart 12333, 33rd Ed., Sep/03. No change in charting status is recommended.

9) A charted 26-ft depth, in Latitude 40°38'55.2"N, Longitude 74°05'51.8"W, was neither verified nor disproved by the present survey. No change in charting status is recommended.

10) A charted 7-ft depth, in Latitude 40°38'56.5"N, Longitude 74°06'12.8"W, was neither verified nor disproved. No change in charting status is recommended.

11) There are no conflicts in controlling depths between the present survey and tabulated depths in the portion of the Bergen Point East and Constable Hook Reach Channels covered by the present survey.

Sheet Nine Chart 12334

1) AWOIS Item 10633, a charted Obstn rep PA, in Latitude 40°39'13.36"N, Longitude 74°04'45.28"W, is considered disproved by 200 percent side scan sonar coverage. It is recommended that the feature be deleted from the chart, and the area be charted as shown on the present survey.

2) ENC 211, a charted note, 17 ft rep, in the vicinity of Latitude 40°39'12.0"N, Longitude 74°05'10.50"W, originates with

an unknown source and has been deleted from chart 12334 66th Ed., May/03. It is recommended that the area be charted as shown on the present survey.

3) ENC 212, a charted note, 30 ft rep, in the vicinity of Latitude 40°39'07.0"N, Longitude 74°05'21.0"W, originates with an unknown source and has been deleted from chart 12334 66th Ed., May/03. No change in charting status is recommended.

4) ENC 213, a charted note, 19 ft rep 1999, note in the vicinity of Latitude 40°39'04.0"N, Longitude 74°05'27.5"W, originates with an unknown source and was inaccessible to the hydrographer. No change in charting status is recommended.

5) ENC 607, charted wharf, in the vicinity of Latitude 40°39'43.5"N, Longitude 74°04'11.5"W, has been revised. The revised wharf, in Latitude 40°39'42.7"N, Longitude 74°04'10.9"W, was delineated. It is recommended that the charted wharf edge be revised as shown on the present survey.

6) ENC 1433, charted pier/slip, in the vicinity of Latitude 40°38'34.5"N, Longitude 74°04'15.0"W, was investigated visually and have been revised. This area has been revised on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

7) ENC 1434, charted pier, in the vicinity of Latitude 40°38'33.0"N, Longitude 74°04'15.5"W, was visually investigated and is correctly charted. No change in charting status is recommended.

8) ENC 1435, charted pier, in the vicinity of Latitude 40°38'31.50"N, Longitude 74°04'15"W, was visually investigated and were incorrectly charted. This item has been revised on chart 12334, 66th Ed., May/03. No change in charting is status recommended.

9) ENC 1436, charted pier, in the vicinity of Latitude 40°38'28.0"N, Longitude 74°04'14.5"W, was identified as "ruins". This feature is shown on chart 12334, 66th Ed., May/03 as a new pier. No change in charting is status recommended.

10) ENC 1437, charted pier, in the vicinity of Latitude 40°38'26.0"N, Longitude 74°04'14.5"W, was identified as "ruins". This item has been revised on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

1) ENC 1438, charted pier, in the vicinity of Latitude 40°38'24"N, Longitude 74°04'14"W, were identified as "ruins". This item has been revised on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

12) ENC 1439, charted pier, in the vicinity of Latitude 40°38'21.7"N, Longitude 74°04'14.0"W, was identified as "ruins". This pier is shown with black dashed lines on the smooth sheet with a note "pier ruins". This item has been revised on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

13) ENC 1440, charted pier, in the vicinity of Latitude 40°38'18.5"N, Longitude 74°04'13.0"W, was identified as "ruins". This item has been revised on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

14) ENC 1441, charted pier, in the vicinity of Latitude 40°38'14.0"N, Longitude 74°04'16.5"W, was identified as "ruins". It is recommended that the feature be revised to pier ruins.

15) ENC 1442, charted pier, in the vicinity of Latitude 40°38'10"N, Longitude 74°04'14"W, was identified as "ruins". This item has been revised on chart 12334, 66th Ed., May/03. No changes in charting status are recommended.

16) ENC 504, Kill Van Kull Constable Hook Range, in the vicinity of Latitude 40°39'13"N, Longitude 74°05'19"W, is adequately charted. No change in charting status is recommended.

17) The following charted depths originating with miscellaneous sources were neither verified nor disproved by the present survey:

<u>Depth</u>	<u>Latitude (N)</u>	<u>Longitude (W)</u>
29	40°39'13.2"	74°05'01.5"
18	40°39'09.3"	74°04'15.8"
37	40°39'10.8"	74°05'04.4"
35	40°39'11.6"	70°05'04.3"

No change in charting status is recommended.

18) Two fixed and six floating aids to navigation are being shown on the smooth sheet. The positions of these aids were verified during office processing. They appear adequate to serve

their intended purpose.

19) There are no conflicts in controlling depths between the present survey and tabulated depths in the portion of the Constable Hook Reach Channel covered by the present survey.

Sheet Ten Chart 12334

1) ENC 1019, a charted pile, in the vicinity of Latitude 40°40'51.35"N, Longitude 74°04'06.65"W, originates with an unknown source and is not considered disproved. It is recommended that the feature be revised to submerged pile.

2) A charted pile, in the vicinity of Latitude 40°41'10.8"N, Longitude 74°04'33.9"W, originates with an unknown source and is not considered disproved. It is recommended that the feature be revised to submerged pile.

3) A charted Obstn PA 16 ft rep, in the vicinity of Latitude 40°41'06.3"N, Longitude 74°04'31.6"W, originates with an unknown source and was investigated. An obstruction with a depth of 17ft, in Latitude 40°41'05.68"N, Longitude 74°04'32.14"W, was located. It is recommended that the charted feature be deleted and an obstruction be charted as shown on the present survey.

4) A charted submerged wreck, in the vicinity of Latitude 40°40'36.6"N, Longitude 74°03'40.5"W, originates with an unknown source and was not investigated. No change in charting status is recommended.

5) A charted submerged wreck (8 ft rep), in the vicinity of Latitude 40°40'32.2"N, Longitude 74°03'33.3"W, originates with an unknown source and was not investigated. No change in charting status is recommended.

6) ENC 1398, pier/wharf edges, in the vicinity of Latitude 40°40'19.9"N, Longitude 74°04'56.5"W, at the Global Marine Terminal was visually verified. No change in charting status is recommended.

7) ENC 1399, charted pier/wharf, in the vicinity of Latitude 40°40'18.3"N, Longitude 74°05'14.5"W, at the Military Ocean Terminal, was investigated and was incorrectly charted. This item has been revised on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

8) ENC 1401, charted pier/wharf edges, in the vicinity of Latitude 40°39'51.0"N, Longitude 74°04'08.5"W, at the Military Ocean Terminal was investigated and was incorrectly charted. This item has been revised on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

9) An uncharted pile, in Latitude 40°39'57.63"N, Longitude 74°04'24.33"W, was noted during office processing. It is recommended that a pile be charted as shown on the present survey.

10) A charted submerged pile, in the vicinity of Latitude 40°40'17.25"N, Longitude 74°03'50.19"W, originates with an unknown source and was neither verified nor disproved. No change in charting status is recommended.

11) Four floating aids to navigation positions were verified during office processing. They appear adequate to serve their intended purpose.

Sheet Eleven Charts 12334,12335

1) An uncharted obstruction with a depth of 2 feet, in Latitude 40°40'59.22"N, Longitude 74°01'23.25"W, was located. It is recommended that the obstruction be charted as shown on the present survey.

2) ENC 135, a charted bridge, under construction, in the vicinity of Latitude 40°42'05"N, Longitude 74°02'35"W. was visually verified and is completed. The bridge has been revised on charts 12334, 66th Ed., May/03 and 12335, 40th Ed., Sep/03. No change in charting status is recommended.

3) ENC 210, a charted note, 15 FT MAR 1973, in Latitude 40°41'21.0"N, Longitude 74°02'52.0"W, revised to 13 FT JAN 1998. The item originates with an unknown source and was disproved. It is recommended that the charted note be deleted from the chart and the area charted as shown on the present survey.

4) ENC 1016, a charted wreck with a depth of 3 feet, in Latitude 40°41'46.7"N, Longitude 74°02'29.50"W, originates with an unknown source. A visible wreck, in Latitude 40°41'45.89"N, Longitude 74°02'28.51"W, was located. It is recommended that the charted feature be deleted and a visible wreck be chart as shown on the present survey.

- 5) An uncharted pier ruins, in the vicinity of Latitude 40°41'27.4"N, Longitude 74°00'43.5"W, was located. It is recommended that pier ruins be charted as shown on the present survey.
- 6) ENC 1267, charted pier, in Latitude 40°41'21.5"N, Longitude 74°02'33.5"W, originates with an unknown source and was found in "ruins". No change in charting status is recommended.
- 7) ENC 1305, charted pier, in the vicinity of Latitude 40°42'16"N, Longitude 74°01'05"W, originates with an unknown source and was identified as "under construction". The area has been revised on chart 12335, 40th Ed., Sep/03. No change in charting status is recommended.
- 8) ENC 1306, charted pier, in the vicinity of Latitude 40°41'00.5"N, Longitude 74°01'21.5"W, originates with an unknown source and has been revised. The area has been revised on charts 12334, 66th Ed., May/03 and 12335, 40th Ed., Sep/03. No change in charting status is recommended.
- 9) ENC 1307, charted pier, in the vicinity of Latitude 40°41'05.0"N, Longitude 74°01'12.5"W, originates with an unknown source and has been revised. The area has been revised on charts 12334, 66th Ed., May/03 and 12335, 40th Ed., Sep/03. No change in charting status is recommended.
- 10) ENC 1308, charted pier, in the vicinity of Latitude 40°41'10.5"N, Longitude 74°01'00.5"W, originates with an unknown source and has been revised. The area has been revised on charts 12334, 66th Ed., May/03 and 12335, 40th Ed., Sep/03. No change in charting status is recommended.
- 11) ENC 1311, charted pier and a charted pile/dolphin, in the vicinity of Latitude 40°41'27.8"N, Longitude 74°00'43.0"W, originate with an unknown source and have been revised. The area has been revised on charts 12334, 66th Ed., May/03 and 12335, 40th Ed., Sep/03. No change in charting status is recommended.
- 12) ENC 1312, charted Ferry Slips, in the vicinity of Latitude 40°41'36.0"N, Longitude 74°00'53.5"W, originate with an unknown source and have a different delineation than charted. The area has been revised on charts 12334, 66th Ed., May/03 and 12335, 40th Ed., Sep/03. No change in charting status is recommended.

13) ENC 1313, charted Ferry Slips, in the vicinity of Latitude 40°41'36.5"N, Longitude 74°00'55.0"W, originate with an unknown source and have a different delineation than charted. The area has been revised on charts 12334, 66th Ed., May/03 and 12335, 40th Ed., Sep/03. No change in charting status is recommended.

14) ENC 1309,1310, charted pier, in the vicinity of Latitude 40°41'25.5"N, Longitude 74°00'42.4"W, and Latitude 40°41'26.6"N, Longitude 74°00'42.3"W, originates with an unknown source and was visually verified as "ruins". The area has been revised on charts 12334, 66th Ed., May/03 and 12335, 40th Ed., Sep/03. No change in charting status is recommended.

15) ENC 1314, charted pier, in the vicinity of Latitude 40°41'37.5"N, Longitude 74°00'58.5"W, originates with an unknown source and identified as "ruins". The area has been revised on charts 12334, 66th Ed., May/03 and 12335, 40th Ed., Sep/03. No change in charting status is recommended.

16) ENC 1315, charted pier, in the vicinity of Latitude 40°41'36.50"N, Longitude 74°01'07.50"W, originates with an unknown source and was identified as "ruins". The area has been revised on charts 12334, 66th Ed., May/03 and 12335, 40th Ed., Sep/03. No change in charting status is recommended.

17) ENC 1323, charted pier, in the vicinity of Latitude 40°42'03.5"N, Longitude 74°00'31.5"W, originates with an unknown source and was verified. The area has been revised on charts 12334, 66th Ed., May/03 and 12335, 40th Ed., Sep/03. No change in charting status is recommended.

18) ENC 1379, charted pier, in the vicinity of Latitude 40°41'11.5"N, Longitude 74°00'30.5"W, originates with an unknown source and was identified as "ruins". The area has been revised on charts 12334, 66th Ed., May/03 and 12335, 40th Ed., Sep/03. No change in charting status is recommended.

19) ENC 1380, charted pier, in the vicinity of Latitude 40°41'05.5"N, Longitude 74°00'37.5"W, originates with an unknown source and was visually verified. No change in charting status is recommended.

20) ENC 1381, charted pier, in the vicinity of Latitude 40°40'58.0"N, Longitude 74°00'48.5"W, originates with an unknown source and was visually verified. No change in charting status

is recommended.

21) A charted ventilator, in the vicinity of Latitude 40°41'32.0"N, Longitude 74°00'43.5"W, originates with an unknown source and was found with a different delineation. The area has been revised on charts 12334, 66th Ed., May/03 and 12335, 40th Ed., Sep/03. No change in charting status is recommended.

22) A charted 12-ft depth, in Latitude 40°41'38.36"N, Longitude 74°01'00.14"W, was not adequately disproved. No change in charting status is recommended.

23) A charted 15-ft depth, in Latitude 40°42'02.25"N, Longitude 74°00'55.50"W, was not adequately disproved. No change in charting status is recommended.

Sheet Twelve Chart 12335

1) AWOIS Item #10670, (ENC 209), a charted 18 ft, Soundings rep (1990), in the vicinity of Latitude 40°42'18.4"N, Longitude 73°58'27.4"W, was investigated. This item originates with an unknown source and was disproved. It is recommended that the charted note be deleted and the area charted as shown on the present survey.

2) AWOIS Item #10671, a rock with a 35-ft wire drag clearance depth, in the vicinity of Latitude 40°42'42.4"N, Longitude 73°58'16.7"W, originates with an unknown source and was not investigated. No change in charting status is recommended.

3) AWOIS Item #10672, a rock with a 35ft wire drag clearance depth, in the vicinity of Latitude 40°42'46.2"N, Longitude 73°58'23.5"W originates with an unknown source and was not investigated. No change in charting status is recommended.

4) AWOIS Item #10673, a stranded wreck reported, in the vicinity of Latitude 40°42'12.0"N, Longitude 73°58'37.5"W, originates with an unknown source and was not investigated. This item is not shown on chart 12335, 40th Ed., Sep/03. It is recommended that MCD personnel determine the charting disposition for this feature.

5) The charted submerged ruins, in the vicinity of Latitude 40°42'32"N, Longitude 73°59'21"W, originate with and unknown source and were verified. No change in charting status is recommended.

6) ENC 1340, charted pier ruins, in the vicinity of Latitude 40°42'51.5"N, Longitude 73°58'07.5"W, originate with and unknown source and were visually inspected. The feature is submerged. This item is shown on chart 12335, 40th Ed., Sep/03. It is recommended that the notation submerged ruins be added.

7) ENC 1356, charted pier, Pier D, in the vicinity of Latitude 40°42'10.5"N, Longitude 73°58'31.5"W, was identified as "ruins". The area is shown with dashed black lines on the smooth sheet with a note "pier ruins". The area has been revised on chart 12335, 40th Ed., Sep/03 subsequent to the present survey. No change in charting status is recommended.

8) ENC 1357, charted Navy Pier, in the vicinity of Latitude 40°42'14"N, Longitude 73°58'35"W. This pier was visually inspected. No change in charting status is recommended.

9) ENC 1358, charted pier, Pier "A", in the vicinity of Latitude 40°42'20.0"N, Longitude 73°58'42.5"W, visually inspected and was under construction. The area has been revised on chart 12335, 40th Ed., Sep/03 subsequent to the present survey. No change in charting status is recommended.

Sheet Thirteen Chart 12335

1) Most of the hydrographic and side scan data for this sheet was rejected during office processing. Julian Day 118 was run on Florida datum instead of New York datum. This issue was discussed with the hydrographer, and it was decided that the data cannot be converted or used.

2) An uncharted obstruction with a depth of 4 feet, in Latitude 40°43'30.78"N, Longitude 74°00'47.22"W, was located. It is recommended that the feature be charted as shown on the present survey.

3) Two visible dolphins and seven submerged dolphins, in the vicinity of Latitude 40°44'58"N, Longitude 74°00'37"W, originate with unknown sources and were not investigated. The area has been revised on chart 12335, 40th Ed., Sep/03 subsequent to the present survey. No change in charting status is recommended.

4) ENC 1248, a charted pier/breakwater, in Latitude 40°43'30"N, Longitude 74°01'43"W, was not investigated. The area has been revised on chart 12335, 40th Ed., Sep/03 subsequent to

the present survey. No change in charting status is recommended.

5) ENC 1254, charted pier, in the vicinity of Latitude 40°43'09"N, Longitude 74°01'51"W, were identified as "ruins". The area has been revised on chart 12335, 40th Ed., Sep/03 subsequent to the present survey. No change in charting status is recommended.

6) ENC 1283, charted pier, in the vicinity of Latitude 40°44'33"N, Longitude 74°00'40"W, was investigated and found "under construction". The area has been revised on chart 12335, 40th Ed., Sep/03 subsequent to the present survey. No change in charting status is recommended.

Sheet Fourteen Chart 12335

1) A charted obstruction, in the vicinity of Latitude 40°44'36.0"N, Longitude 73°58'15.0"W, originates with an unknown source. An obstruction with a depth of 29 feet, in Latitude 40°44'36.23"N, Longitude 73°58'15.67"W, was located. It is recommended that the charted feature be deleted, and an obstruction be charted as shown on the present survey.

2) A charted obstruction with a depth of 20 feet, in the vicinity of Latitude 40°43'28.7"N, Longitude 73°58'16.2"W, originates with an unknown source. The feature was disproved using side scan sonar. Present survey depths in the area range from 28-29 feet. It is recommended that the feature be deleted and the area charted as shown on the present survey.

3) A charted obstruction with a depth of 31 feet, in the vicinity of Latitude 40°43'21.4"N, Longitude 73°58'04.8"W, originates with an unknown source. The feature was disproved by using side scan sonar. Present survey depths in the area range from 28-39 feet. It is recommended that the feature be deleted and the area charted as shown on the present survey.

4) An uncharted obstruction with a depth of 37 feet, in Latitude 40°43'54.27"N, Longitude 73°58'03.25"W was located. It is recommended that the feature be charted as shown on the present survey.

5) An uncharted obstruction with a depth of 39 feet, in Latitude 40°43'34.05"N, Longitude 73°58'02.05"W, was located. It is recommended that the feature be charted as shown on the present survey.

6) ENC 263, an uncharted 30 ft depth reported 1977, in the vicinity of Latitude 40°44'31.0"N, Longitude 73°57'42.5"W, originates with an unknown source. The area has been revised on chart 12335, 40th Ed., Sep/03 subsequent to the present survey. No change in charting status is recommended.

7) ENCs 301 and 501, two fixed aids to navigation, East River Main Channel Poorhouse Flats Range Front Light and East River Main Channel Poorhouse Flats Range Rear Light, in the vicinity of Latitude 40°43'27.65"N, Longitude 73°57'46.30"W, and Latitude 40°43'23.6"N, Longitude 73°57'44.34"W, respectively, were verified. No change in charting status is recommended.

8) ENC 404, charted pier, in the vicinity of Latitude 40°43'53.3"N, Longitude 73°57'45.0"W, was identified as "ruins". The area has been revised on chart 12335, 40th Ed., Sep/03 subsequent to the present survey. No change in charting status is recommended.

9) ENC 405, charted pier, in the vicinity of Latitude 40°43'51"N, Longitude 73°57'45"W, was identified as "ruins". The area has been revised on chart 12335, 40th Ed., Sep/03 subsequent to the present survey. No change in charting status is recommended.

10) ENC 406, charted pier, in the vicinity of Latitude 40°43'48.3"N, Longitude 73°57'45.0"W, was identified as "ruins". The pier is being shown with dashed black lines on the smooth sheet with a note pier ruins. The area has been revised on chart 12335, 40th Ed., Sep/03 subsequent to the present survey. No change in charting status is recommended.

11) ENC 407, charted pier, in the vicinity of Latitude 40°43'44.3"N, Longitude 73°57'43.0"W, was identified as "ruins". The area has been revised on chart 12335, 40th Ed., Sep/03 subsequent to the present survey. No change in charting status is recommended.

12) ENC 408, charted pier, in the vicinity of Latitude 40°43'41"N, Longitude 73°57'43"W, was identified as "ruins". The area has been revised on chart 12335, 40th Ed., Sep/03 subsequent to the present survey. No change in charting status is recommended.

13) ENC 409, charted pier, in the vicinity of Latitude 40°43'39.3"N, Longitude 73°57'43.0"W, was identified "ruins".

The area has been revised on chart 12335, 40th Ed., Sep/03 subsequent to the present survey. No change in charting status is recommended.

14) ENC 411, charted pier, in the vicinity of Latitude 40°43'28.5"N, Longitude 73°57'43.3"W, was identified as "ruins". The area has been revised on chart 12335, 40th Ed., Sep/03 subsequent to the present survey. No change in charting status is recommended.

15) ENC 848, charted pier, in the vicinity of Latitude 40°44'18.0"N, Longitude 73°57'43.4"W, was identified as "ruins". The area has been revised on chart 12335, 40th Ed., Sep/03 subsequent to the present survey. No change in charting status is recommended.

16) ENC 850 and 851, charted pier, in the vicinity of Latitude 40°43'33.2"N, Longitude 73°57'41.8"W, and Latitude 40°43'31.3"N, Longitude 73°57'36.6"W, were identified as "ruins". The area has been revised on chart 12335, 40th Ed., Sep/03 subsequent to the present survey. No change in charting status is recommended.

17) The charted L-shaped ruins, in the vicinity of Latitude 40°44'28.8"N, Longitude 73°57'43.5"W, originate with an unknown source. Hydrographic survey lines were run directly over the ruins. The area has been revised on chart 12335, 40th Ed., Sep/03 subsequent to the present survey. It is recommended that the charted notation be revised to submerged ruins.

18) Two charted piles, in the vicinity of Latitude 40°44'29.3"N, Longitude 73°57'41.8"W, originate with unknown source and were neither verified nor disproved. No change in charting status is recommended.

19) The charted submerged sewer, in the vicinity of Latitude 40°43'53.8"N, Longitude 73°57'55.9"W, was neither verified nor disproved. The area has been revised on chart 12335, 40th Ed., Sep/03 subsequent to the present survey. No change in charting status is recommended.

20) A charted note 16 FT FOR MIDDLE WIDTH OF 120-65 FT NOV 1992, in the vicinity of Latitude 40°44'17.8"N, Longitude 73°57'33.0"W, was disproved. Present survey depths in the mouth of Newtown Creek range from 12 feet to 24 feet. It is recommended that the charted note be revised to

12 FT FOR MIDDLE WIDTH OF 120-65 FT AUG 2000 unless other information indicates otherwise.

21) An uncharted obstruction with a depth of 27 feet, in Latitude 40°44'35.58"N, Longitude 73°57'47.50"W was located. It is recommended that the feature be charted as shown on the present survey.

22) The following charted depths were not adequately investigate to be disproved by the present survey.

<u>Depth</u>	<u>Latitude(N)</u>	<u>Longitude(W)</u>
39	40°43'10.5"	73°57'59.3"
24	40°43'12.4"	73°57'57.4"
1	40°44'49.6"	73°57'51.1"
9	40°44'46.3"	73°57'52.9"
23	40°44'52.5"	73°57'49.1"
41	40°44'54.4"	73°57'56.9"
24	40°44'26.4"	73°58'19.1"
23	40°44'22.0"	73°58'20.0"
21	40°44'19.1"	73°58'20.5"
25	40°44'07.7"	73°58'19.8"
22	40°43'44.7"	73°58'16.3"

No change in charting status is recommended.

Sheet Fifteen Chart 12339

1) A charted obstruction with a wire drag clearance depth of 34ft, in the vicinity of Latitude 40°46'46.8"N, Longitude 73°55'54.4"W, originates with an unknown source. The feature was disproved by a side scan sonar investigation. Present survey depths in the area range from 35 to 40 feet. It is recommended that the feature be deleted and the area charted as shown on the present survey.

2) A charted dangerous sunken wreck, in the vicinity of Latitude 40°46'33.5"N, Longitude 73°56'14.2"W, originates with an unknown source and was not investigated during. No change in charting status is recommended.

3) ENC 205, charted note, 20 ft rep June 1991, in the vicinity of Latitude 40°45'36.5"N, Longitude 73°56'49.5"W, was not accessible. It is recommended that the charted note be retained as charted.

4) ENC 486, charted pier, in the vicinity of Latitude 40°46'45"N, Longitude 73°56'34"W, were verified. No change in charting status is recommended.

5) The following charted depths and features were not adequately developed to be disproved:

<u>Depth/Feature</u>	<u>Latitude (N)</u>	<u>Longitude (W)</u>
9	40°46'23.50"	73°56'24.10"
19	40°46'26.80"	73°56'35.90"
18	40°46'44.40"	73°56'20.10"
13	40°46'45.16"	73°56'21.90"
13	40°46'48.28"	73°56'17.91"
Piles PA	40°46'49.46"	73°56'20.60"
16	40°46'51.20"	73°56'37.10"
13	40°46'50.80"	73°55'51.50"

No change in charting status is recommended.

Sheet Sixteen Chart 12341

1) ENC 201, charted notation 15ft rep 1973, in the vicinity of Latitude 40°48'12.1"N, Longitude 73°59'18.0"W, was inaccessible. No change in charting is recommended unless other information indicates otherwise.

2) ENC 202, charted note, 11 ft rep 1990, in the vicinity of Latitude 40°48'08"N, Longitude 73°59'20"W, originates with an unknown source and is not shown on the latest edition of chart 12341. No change in charting status is recommended.

3) ENC 203, charted note, 11 FT 1990, on the north side of the pier, in the vicinity of Latitude 40°46'24.5"N, Longitude 73°59'43.0"W, was not investigated. No change in charting status is recommended.

4) ENC 203, charted note, 10½ FT 1990, on the south side of the pier, in the vicinity of Latitude 40°46'24.5"N, Longitude 73°59'43.0"W, was not fully investigated by the present survey. No change in charting status is recommended.

5) ENC 431, was assigned to verify the existence, position and limits of pier ruins, in the vicinity of Latitude 40°46'47"N, Longitude 73°59'25"W. This area was visually verified by the hydrographer and was under construction. This area has been

revised subsequent to the present survey and is shown on chart 12341 26th Ed., Jun/03. No change in charting status is recommended unless other information indicates otherwise.

6) ENC 441, charted pier, Pier Number 96, in the vicinity of Latitude 40°46'18"N, Longitude 73°59'47"W, was visually verified as "in ruins". This area has been revised subsequent to the present survey and ruins are shown on chart 12341, 26th Ed., Jun/03. No change in charting status is recommended.

7) ENC 442, charted pier, Pier Number 95, in the vicinity of Latitude 40°46'15.5"N, Longitude 73°59'48.0"W, was visually verified as "in ruins". This area has been revised subsequent to the present survey and ruins are shown on chart 12341, 26th Ed., Jun/03. No change in charting status is recommended.

Sheet Seventeen Chart 12334

1) AWOIS Item #10653, a charted obstruction PA (rep 1986), in the vicinity of Latitude 40°37'24.4"N, Longitude 74°03'35.5"W, was neither verified nor disproved. No change in charting status is recommended.

2) An uncharted obstruction (pile), with a depth of 1 foot, in the vicinity of Latitude 40°37'05.49"N, Longitude 74°03'54.10"W, was located. It is recommended that the area be charted as shown on the present survey.

3) An uncharted obstruction (pile), with a depth of 3 feet, in the vicinity of Latitude 40°37'05.81"N, Longitude 74°03'53.37"W, was located. It is recommended that the area be charted as shown on the present survey.

4) ENC 1443, chart pier, in the vicinity of Latitude 40°37'44.5"N, Longitude 74°04'10.5"W, was verified. No change in charting status is recommended.

5) ENC 1450, charted pier edges of Pier 24, in the vicinity of Latitude 40°37'05.5"N, Longitude 74°03'52.0"W, was verified as charted. No change in charting status is recommended.

6) ENC 1452, charted pier, Quarantine Station Entrance and enclosure, in the vicinity of Latitude 40°36'46.5"N, Longitude 74°03'36.0"W, were revised. This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

7) A charted 9-ft depth, in Latitude 40°37'52.59"N, Longitude 74°04'22.89"W, is not considered disproved. No change in charting status is recommended.

8) A charted 11-ft depth, in Latitude 40°37'40.98"N, Longitude 74°04'20.66"W, is not considered disproved. No change in charting status is recommended.

9) A charted 37-ft depth, in Latitude 40°37'41.88"N, Longitude 74°04'06.09"W, is not considered disproved. No change in charting status is recommended.

10) A charted 43-ft depth, in Latitude 40°37'44.49"N, Longitude 74°04'02.04"W, is not considered disproved. No change in charting status is recommended.

Sheet Eighteen Chart 12334

1) ENC 1456, charted pier edges, in the vicinity of Latitude 40°38'30.50"N, Longitude 74°02'12.75"W, originates with an unknown source and was visually verified as "in ruins". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

2) ENC 1457, charted pier edges, in the vicinity of Latitude 40°38'43.5"N, Longitude 74°01'57.5"W, was visually verified by the hydrographer as "pier ruins". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

3) ENC 1458, charted pier edges, in the vicinity of Latitude 40°38'46.0"N, Longitude 74°01'55.0"W, was visually verified as "pier ruins". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

4) ENC 1459, charted pier edges, in the vicinity of Latitude 40°38'47.5"N, Longitude 74°01'52.0"W, was visually verified as "pier ruins". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

5) ENC 1460, charted pier edges, in the vicinity of

Latitude 40°38'51.5"N, Longitude 74°01'48.0"W, was visually verified as "pier ruins". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

6) ENC 1461, charted pier edges, in the vicinity of Latitude 40°38'54.0"N, Longitude 74°01'44.5"W, was verified. No change in charting status is recommended.

7) ENC 1462, charted pier edges, in the vicinity of Latitude 40°38'57"N, Longitude 74°01'42"W, was identified as two piers. This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

8) ENC 1467, charted pier edges, in the vicinity of Latitude 40°39'04.5"N, Longitude 74°01'32.0"W, was verified. No change in charting status is recommended.

9) ENC 1468, charted pier edges, in the vicinity of Latitude 40°39'07.0"N, Longitude 74°01'31.8"W, was verified by as being revised. This area has been revised on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

10) ENC 1469, charted pier edges, in the vicinity of Latitude 40°39'09.5"N, Longitude 74°01'30.0"W, item was verified as being revised. This item has been revised on chart 12334 66th Ed., May/03. No change in charting status is recommended.

11) ENC 1463, charted pier ruins, in the vicinity of Latitude 40°38'59"N, Longitude 74°01'39"W, were not seen during a visual investigation. This item has been revised on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

12) ENC 1464, charted pier edges, in the vicinity of Latitude 40°38'59.5"N, Longitude 74°01'37.0"W, were visually identified as submerged pier ruins. This item has been revised on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

13) ENC 1465, charted pier edges, in the vicinity of Latitude 40°39'02"N, Longitude 74°01'37"W, was visually identified as submerged pier ruins. This item has been revised on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

- 14) ENC 1470, charted pier edges, in the vicinity of Latitude 40°39'11.5"N, Longitude 74°01'26.5"W, was visually identified as pier ruins. This item has been revised on chart 12334, 66th Ed., May/03. No change in charting status is recommended.
- 15) ENC 1471, charted pier edges, in the vicinity of Latitude 40°39'14.5"N, Longitude 74°01'23.0"W, was visually identified as pier ruins. This item has been revised on chart 12334, 66th Ed., May/03. No change in charting status is recommended.
- 16) ENC 1472, charted pier edges, in the vicinity of Latitude 40°39'18.0"N, Longitude 74°01'20.5"W, was visually identified as pier ruins. This item has been revised on chart 12334, 66th Ed., May/03. No change in charting status is recommended.
- 17) ENC 1473, charted pier edges, in the vicinity of Latitude 40°39'21.5"N, Longitude 74°01'17.5"W, was visually identified as pier ruins. This item has been revised on chart 12334, 66th Ed., May/03. No change in charting status is recommended.
- 18) ENC 1474, charted pier edges, in the vicinity of Latitude 40°39'24.5"N, Longitude 74°01'12.5"W, was visually identified as pier ruins. This item has been revised on chart 12334, 66th Ed., May/03. No change in charting status is recommended.
- 19) ENC 1475, charted pier edges, in the vicinity of Latitude 40°39'26.0"N, Longitude 74°01'06.5"W, was visually identified as pier ruins. This item has been revised on chart 12334, 66th Ed., May/03. No change in charting status is recommended.
- 20) ENC 1476, charted pier edges, in the vicinity of Latitude 40°39'30.0"N, Longitude 74°01'04.5"W, was visually identified as pier ruins. This item has been revised on chart 12334, 66th Ed., May/03. No change in charting status is recommended.
- 21) A charted pier, in the vicinity of Latitude 40°38'22.0"N, Longitude 74°02'18.0"W, was described as revised. This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting

status is recommended.

Sheet Nineteen Chart 12401

1) ENC 325, Sandy Hook Channel Range Rear Light, Sandy Hook Channel Range Front Light, and Sandy Hook Channel Range Rear Light, in the vicinity of Latitude 40°29'18.42"N, Longitude 73°59'24.30"W, Latitude 40°29'15.18"N, Longitude 73°59'35.30"W, and, Latitude 40°29'46.76"N, Longitude 74°00'27.97"W, respectively, were verified. No change in charting status is recommended.

2) ENC 516, Sandy Hook Channel range, in the vicinity of Latitude 40°29'30"N, Longitude 74°00'00"W, was verified. No change in charting status is recommended.

3) ENC 517, Sandy Hook Channel range, in the vicinity of Latitude 40°29'10.7"N, Longitude 73°59'50.0"W, was verified. No change in charting status is recommended.

4) ENC 518, Sandy Hook Channel range, in the vicinity of Latitude 40°29'17"N, Longitude 73°59'39"W. This position is located south of the charted range. No change in charting status is recommended.

Sheet Twenty Chart 12402

1) ENC 325, Ambrose Channel West Bank Range Front Light, in the vicinity of Latitude 40°32'16.61"N, Longitude 74°02'34.16"W, was verified. This light is shown on the smooth sheet. No change in charting status is recommended.

Sheet Twenty-One Chart 12401

1) ENC 325, Terminal Channel Dock Range Rear Light and Terminal Channel Dock Range Front Light, in the vicinity of Latitude 40°26'41.73"N, Longitude 74°03'22.13"W, and Latitude 40°27'02.89"N, Longitude 74°03'07.69"W, respectively, were verified. These lights are shown on the smooth sheet. No change in charting status is recommended.

2) ENC 513, Terminal Channel range, in the vicinity of Latitude 40°26'54"N, Longitude 74°03'14"W, was verified. No change in charting status is recommended.

3) ENC 1565, charted "Pier 4", in the vicinity of Latitude 40°27'21"N, Longitude 74°03'13"W, was investigated, and a revised position was provided. The revised feature is shown in red on the smooth sheet. The feature is shown on chart 12401, 7th Ed., May/02 in the revised position. No change in charting status is recommended.

4) ENC 1566, charted "Pier 3", in the vicinity of Latitude 40°27'18.0"N, Longitude 74°03'02.5"W, was investigated, and a revised position was provided. The feature is shown on chart 12401, 7th Ed., May/02 in the revised position. No change in charting status is recommended.

5) ENC 1567, "Pier 2", in the vicinity of Latitude 40°27'12.0"N, Longitude 74°02'56.5"W, was investigated, and a revised position was provided. The feature is shown on chart 12401, 7th Ed., May/02 in the revised position. No change in charting status is recommended.

6) Charted "Pier 1", in the vicinity of Latitude 40°26'34.0"N, Longitude 74°03'27.7"W was verified. No change in charting status is recommended.

Sheet Twenty-Two Chart 12331

1) ENC 325, Raritan Bay Princes Bay Range Rear Light and Raritan Bay Princes Bay Range Front Light, in the vicinity of Latitude 40°30'27.7"N, Longitude 74°12'47.7"W and Latitude 40°30'27.9"N, Longitude 74°12'45.0"W, respectively, were verified. No change in charting status is recommended.

1) ENC 511, Sequine Point Bend Reach Channel range, in the vicinity of Latitude 40°30'28.0"N, Longitude 74°12'42.2"W, was verified. No change in charting status is recommended.

Sheet Twenty-Three Chart 12402

1) ENC 325, Ambrose Channel Staten Island Range Rear Light, in the vicinity of Latitude 40°34'33.85"N, Longitude 74°08'28.37"W, was verified. No change in charting status is recommended.

Sheet Twenty-Four Chart 12402

1) ENC 325, Swash Channel Range Front Light, in the vicinity

of Latitude 40°33'28.76"N, Longitude 74°06'26.60"W, was verified. No change in charting status is recommended.

Sheet Twenty-Five Chart 12402

1) ENC 325, Swash Channel Roamer Shoal Light, in the vicinity of Latitude 40°30'46.87"N, Longitude 74°00'48.64"W, was verified. No change in charting status is recommended.

Sheet Twenty-Six Chart 12339

1) ENC 424, charted pier ruins, in the vicinity of Latitude 40°48'43"N, Longitude 73°54'25"W, is located approximately ½ mile inland of the charted shoreline. A visual inspection of the shoreline near the given position and did not reveal any ruins. It is recommended that feature be reassigned for future investigation.

2) ENC 426, charted pier, in the vicinity of Latitude 40°48'05.5"N, Longitude 73°54'00.0"W, was visually verified, and an inactive ferry slip and pier ruins were located. It is recommended that the charted feature be revised to pier ruins.

3) ENC 488 and 852, charted pier edges, in the vicinity of Latitude 40°47'58.0"N, Longitude 73°54'28.5"W and Latitude 40°48'01.2"N, Longitude 73°54'26.0, were visually verified, and a ferry slip and pier ruins were located. The pier ruins is shown on chart 12339, 44th Ed., Oct/03. No change in charting status is recommended.

4) ENC 490, charted pier edges, in the vicinity of Latitude 40°48'23.0"N, Longitude 73°53'48.5"W, were visually inspected and pier ruins were identified. It is recommended that the charted feature be revised to pier ruins.

5) ENC 492, charted pier edges, in the vicinity of Latitude 40°48'22.5"N, Longitude 73°53'43.5"W, were visually inspected by the hydrographer and pier ruins were identified. It is recommended that the charted feature be revised to pier ruins.

6) ENC 493, charted pier edges, in the vicinity of Latitude 40°48'21.0"N, Longitude 73°53'41.5"W, were visually inspected by the hydrographer and pier ruins were identified. It is recommended that the charted feature be revised to pier ruins.

7) ENC 853, charted wharf edges, in the vicinity of Latitude 40°47'55"N, Longitude 73°54'32"W, were visually inspected and a wharf in ruins was identified. It is recommended that the charted feature be revised to ruins.

Sheet Twenty-Seven Chart 12341

1) ENC 449, the Bulk Fuel Oil Terminal Facility, in the vicinity of Latitude 40°49'00"N, Longitude 73°58'38"W, was visually investigated and is not in ruins. This area has been revised subsequent to the present survey and is shown on chart 12341, 26th Ed., Jun/03. No change in charting status is recommended unless other information indicates otherwise.

2) ENC 453, charted pier edges, in the vicinity of Latitude 40°48'51"N, Longitude 73°58'44"W, was visually inspected. This feature no longer exists. This area has been revised subsequent to the present survey and is shown on chart 12341, 26th Ed., Jun/03. No change in charting status is recommended.

Sheet Twenty-Eight Chart 12334 and 12335

1) ENC 319, Erie Basin Entrance Light 2, in the vicinity of Latitude 40°40'17.8"N, Longitude 74°01'09.0"W, was investigated. The feature has being destroyed. It is recommended that MCD personnel determine the disposition of this feature.

2) ENC 502, the charted range, in the vicinity of Latitude 40°40'53.0"N, Longitude 74°00'56.5"W, was neither verified nor disproved. No change in charting status is recommended unless other information indicates otherwise.

3) ENC 608, charted ruins, in the vicinity of Latitude 40°40'16.5"N, Longitude 74°00'51.0"W were visually verified. This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

4) ENC 1383, charted pier edges, in the vicinity of Latitude 40°40'40"N, Longitude 74°01'11"W, was visually identified as "ruins". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03 and 12335 40th Ed., Sep/03. No change in charting status is recommended.

5) ENC 1385, charted pier edges, in the vicinity of Latitude 40°40'33"N, Longitude 74°01'10"W, was visually identified as "ruins". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03 and 12335 40th Ed., Sep/03. No change in charting status is recommended.

6) ENC 1386, pier, in the vicinity of Latitude 40°40'29.5"N, Longitude 74°01'08.5"W, was visually identified as "ruins". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03 and 12335 40th Ed., Sep/03. No change in charting status is recommended.

7) ENC 1387, charted pier, in the vicinity of Latitude 40°40'26.5"N, Longitude 74°01'07.5"W, was visually identified as "ruins". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03 and 12335 40th Ed., Sep/03. No change in charting status is recommended.

8) ENC 1388, charted pier, in the vicinity of Latitude 40°40'25.0"N, Longitude 74°01'05.5"W, was visually identified as "ruins". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03 and 12335 40th Ed., Sep/03. No change in charting status is recommended.

9) ENC 1477, charted pier, in the vicinity of Latitude 40°39'35.5"N, Longitude 74°00'58.5"W, was visually verified. No change in charting status is recommended.

10) ENC 1478, charted pier, in the vicinity of Latitude 40°39'41.5"N, Longitude 74°00'48.5"W, was identified as "revised". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

11) ENC 1479, charted pier, in the vicinity of Latitude 40°39'45"N, Longitude 74°00'41"W, was identified as "ruins". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

12) ENC 1481, charted pier, in the vicinity of Latitude 40°39'49.5"N, Longitude 74°00'31.5"W, was identified as "ruins". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

13) ENC 1482, charted pier, in the vicinity of Latitude 40°39'50.3"N, Longitude 74°00'27.0"W, was identified as "submerged ruins". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

14) ENC 1483, charted pier, in vicinity of Latitude 40°39'53"N, Longitude 74°00'25"W, was identified as "revised". The area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

15) ENC 1484, charted pier ruins, in vicinity of Latitude 40°39'53"N, Longitude 74°00'17"W, was neither verified nor disproved. The north limits of the pier were located in a different position than charted. This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

16) ENC 1485, charted pier ruins, in the vicinity of Latitude 40°39'53.5"N, Longitude 74°00'22.0"W, was not verified. This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

17) ENC 1486, charted 23rd Street Pier, in the vicinity of Latitude 40°39'56.5"N, Longitude 74°00'13.5"W, was being removed. This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

18) ENC 1487, charted pier/wharf, in the vicinity of Latitude 40°39'59.5"N, Longitude 74°00'09.0"W, was being filled. The northwest limits of the pier were located in a different position than charted. This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

19) ENC 1382, charted pier, in the vicinity of Latitude 40°40'42"N, Longitude 74°01'09"W, was identified as "revised". The area has been revised on charts 12334, 66th Ed., May/03 and 12335 40th Ed., Sep/03. No change in charting status is recommended.

20) ENC 1488, charted pier, in the vicinity of Latitude 40°40'02.7"N, Longitude 74°00'03.5"W, was identified as

"revised". The area has been revised on charts 12334, 66th Ed., May/03. No change in charting status is recommended.

21) ENC 1489, charted submerged ruins, in the vicinity of Latitude 40°40'05.5"N, Longitude 74°00'05.5"W, were investigated. Four dolphins were located in the area. This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

22) ENC 1490, charted pier, in the vicinity of Latitude 40°40'01.50"N, Longitude 74°00'13.75"W, was not found. This area has been revised subsequent to the present survey and is shown on chart 12334 66th Ed., May/03. No change in charting status is recommended.

23) ENC 1491, charted pier, in the vicinity of Latitude 40°40'01.50"N, Longitude 74°00'15.75"W, was not found. This area has been revised subsequent to the survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

24) ENC 1492, charted pier, in the vicinity of Latitude 40°40'00.75"N, Longitude 74°00'20.00"W, was not found. This area has been revised subsequent to the survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

25) ENC 1493, charted pier, in the vicinity of Latitude 40°40'01"N, Longitude 74°00'23"W, was verified. This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

26) ENC 1494, charted pier, in the vicinity of Latitude 40°40'03"N, Longitude 74°00'27"W, was identified as "ruins". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

27) ENC 1495, charted piers enclosing Erie Basin, (including piers 121,141,161,181 and 211), in the vicinity of Latitude 40°40'06.0"N, Longitude 74°01'04.5"W, was verified. This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

28) ENC 1496, charted pier, in the vicinity of Latitude 40°39'59"N, Longitude 74°00'50"W, was identified as "ruins". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

29) ENC 1497, charted pier edges, in the vicinity of Latitude 40°40'02"N, Longitude 74°00'50"W, was identified as "ruins". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

30) ENC 1498, charted pier, in the vicinity of Latitude 40°40'05.3"N, Longitude 74°00'50.0"W, was identified as "ruins". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

31) ENC 1499, charted pier, in the vicinity of Latitude 40°40'09"N, Longitude 74°00'50"W, was identified as "ruins". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

32) ENC 1505, charted pier, in the vicinity of Latitude 40°40'17.5"N, Longitude 74°00'58.0"W, was identified as "ruins". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

33) ENC 1506, charted pier, in the vicinity of Latitude 40°40'19.0"N, Longitude 74°00'59.7"W, was identified as "ruins". This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

34) ENC 1507, charted pier limits of NW and SW head of pier ruins, in the vicinity of Latitude 40°40'21"N, Longitude 74°01'05"W, were verified. This area has been revised subsequent to the present survey and is shown on chart 12334, 66th Ed., May/03. No change in charting status is recommended.

Sheet Twenty-Nine Chart 12333

1) ENC 1062, charted dolphins, in the vicinity of Latitude 40°39'01.50"N, Longitude 74°08'46.50"W, were not seen during a

visual investigation. It is recommended that the feature be revised to submerged dolphins.

2) ENC 1063, charted piles, in the vicinity of Latitude 40°39'10.0"N, Longitude 74°08'29.5"W, were not seen during a visual investigation. It is recommended that the feature be revised to submerged piles.

3) ENC 1585, charted pier, in the vicinity of Latitude 40°39'00"N, Longitude 74°08'43"W, was visually investigated and is considered disproved. The pier has been removed and is not shown on chart 12333, 33rd Ed., Sep/03. No change in charting status is recommended.

4) ENC 1664, charted railway ruins, in the vicinity of Latitude 40°39'17.5"N, Longitude 74°08'54.0"W, were visually investigated and determined to be submerged. Submerged railway ruins are not shown on chart 12333, 33rd Ed., Sep/03. It is recommended that MCD personnel determine the disposition of this feature.

Sheet Thirty Chart 12337

1) ENC 1090, charted dolphin/pile, in the vicinity of Latitude 40°42'28.5"N, Longitude 74°07'15.5"W, was not seen during a visual investigation. It is recommended that the feature be revised to a submerged pile.

2) ENC 1091, charted dolphin/pile, in the vicinity of Latitude 40°42'29.82.5"N, Longitude 74°07'10.92.5"W, was neither verified nor disproved. No change in charting status is recommended.

3) A charted pile, in the vicinity of Latitude 40°42'22.5"N, Longitude 74°07'12.5"W, was not seen during a visual investigation. It is recommended that the feature be revised to a submerged pile.

4) ENC 1092, a charted dolphin/pile, in the vicinity of Latitude 40°42'12"N, Longitude 74°07'11"W, was not seen during a visual investigation. It is recommended that the feature be revised to a submerged pile.

5) ENC 1093, charted dolphins/piles, in the vicinity of Latitude 40°42'09"N, Longitude 74°07'16"W, was not seen during a

visual investigation. It is recommended that the feature be revised to a submerged pile.

6) ENC 1681, charted pier ruins, in the vicinity of Latitude 40°42'14.5"N, Longitude 74°07'11.5"W, was not seen during a visual investigation. It is recommended that the feature be revised to submerged pier ruins.

7) ENC 1696, a charted pile, in the vicinity of Latitude 40°41'28.0"N, Longitude 74°07'33.8"W, was not seen during a visual investigation. It is recommended that the charted feature be revised to submerged pile.

Sheet Thirty-One Chart 12337

1) ENC 1686, charted pier ruins, in the vicinity of Latitude 40°44'11.3"N, Longitude 74°05'44.5"W, was not seen during a visual investigation. It is recommended that the feature be revised to submerged pier ruins.

Sheet Thirty-Two Chart 12335

1) ENC 1258, charted pier ruins, in the vicinity of Latitude 40°42'51.5"N, Longitude 74°01'54.0"W, were neither verified nor disproved. The area has been revised on chart 12335, 40th Ed., Sep/03, subsequent to the present survey. No change in charting status is recommended.

2) ENC 1260, charted pier ruins, in the vicinity of Latitude 40°42'47.0"N, Longitude 74°01'55.5"W, were neither verified nor disproved. The area has been revised on chart 12335, 40th Ed., Sep/03, subsequent to the present survey. No change in charting status is recommended.

3) ENC 1261, charted pier ruins, in the vicinity of Latitude 40°42'44.75"N, Longitude 74°01'56.50"W, were neither verified nor disproved. The area has been revised on chart 12335, 40th Ed., Sep/03, subsequent to the present survey. No change in charting status is recommended.

4) ENC 1262, charted pier ruins, in the vicinity of Latitude 40°42'43.25"N, Longitude 74°01'59.00"W, were neither verified nor disproved. The area has been revised on chart 12335, 40th Ed., Sep/03, subsequent to the present survey. No change in charting status is recommended.

5) Pier ruins, in the vicinity of Latitude 40°42'27.4"N, Longitude 74°01'58.5"W and Latitude 40°42'23.8"N, Longitude 74°02'00.2"W, were not seen during a visual investigation. The area has been revised on chart 12335, 40th Ed., Sep/03, subsequent to the present survey. It is recommended that the feature be revised to submerged ruins.

Sheet Thirty-Three Chart 12341

ENC 1701, the pier structures inside the marina enclosure, in the vicinity of Latitude 40°50'23.5"N, Longitude 73°57'57.5"W, were visually inspected and were under construction. This area has been revised subsequent to the present survey and is shown on chart 12341, 26th Ed., Jun/03. No change in charting status is recommended unless other information indicates otherwise.

Sheet Thirty-Four Chart 12333

ENCs 819, 820, 821, 822, 823, 824, and 825, the charted wharf corners, in the vicinity of Latitude 40°41'21.0"N, Longitude 74°08'10.5"W; Latitude 40°40'49.5"N, Longitude 74°08'39.5"W; Latitude 40°41'21.5"N, Longitude 74°09'33.0"W; Latitude 40°41'14.0"N, Longitude 74°09'38.5"W; Latitude 40°40'26.0"N, Longitude 74°08'21"W; Latitude 40°39'35"N, Longitude 74°08'56"W; and Latitude 40°39'46"N, Longitude 74°09'25.00"W, were verified and are shown on chart 12333, 33rd Ed., Sep/03. No change in charting status is recommended.

Sheet Thirty-Four Chart 12337

ENCs 819, 821, and 822, the charted wharf, in the vicinity of Latitude 40°41'21.0"N, Longitude 74°08'10.5"W; Latitude 40°41'21.5"N, Longitude 74°09'33.0"W, and Latitude 40°41'14.0"N, Longitude 74°09'38.5"W, were verified and are shown on chart 12337, 22nd Ed., Nov 15/97. No change in charting status is recommended.

Sheet Thirty-Five Chart 12333

ENCs 836, 837, and 841, the charted wharf, in the vicinity of Latitude 40°41'19.0"N, Longitude 74°07'55.5"W; Latitude 40°41'21.5"N, Longitude 74°07'59.0"W, and Latitude 40°41'20.80"N, Longitude 74°08'09.64"W, were verified and are shown on chart 12333, 33rd Ed., Sep/03. No change in charting status is recommended.

Sheet Thirty-Five Chart 12337

ENCs 819, 836, 837, 838, 839, 840, and 841, the charted wharf, in the vicinity of Latitude 40°41'21.00"N, Longitude 74°08'10.5"W, Latitude 40°41'19.0"N, Longitude 74°07'55.5"W; Latitude 40°41'21.5"N, Longitude 74°07'59.0"W; Latitude 40°41'43.6"N, Longitude 74°08'19.5"W; Latitude 40°42'01.0"N, Longitude 74°09'10.5"W; Latitude 40°41'54.5"N, Longitude 74°09'15.0"W; and Latitude 40°41'38.0"N, Longitude 74°08'27.0"W, were verified and are shown on chart 12337, 22nd Ed., Nov 15/97. No change in charting status is recommended.

Sheet Thirty-Six Chart 12335

1) Two fixed aids to navigation, East River Main Channel East River Deepwater Range Front Light and Main Channel East River Deepwater Range Rear Light, in the vicinity of Latitude 40°41'58.36"N, Longitude 73°59'59.45"W, and Latitude 40°41'59.14"N, Longitude 73°59'53.91"W, respectively, were verified.

2) ENC 503, the charted pier, in the vicinity of Latitude 40°41'58.5"N, Longitude 73°59'57.5"W, was neither verified nor disproved. The area has been revised on chart 12335, 40th Ed., Sep/03, subsequent to the present survey. No change in charting status is recommended.

3) ENC 1368, the charted pier edges of Pier 1, in the vicinity of Latitude 40°42'07.0"N, Longitude 73°59'50.5"W, was identified as "revised". The area has been revised on chart 12335, 40th Ed., Sep/03, subsequent to the present survey. No change in charting status is recommended.

4) ENC 1369, the charted pier edges of Pier 2, in the vicinity of Latitude 40°41'58.5"N, Longitude 73°59'57.0"W, was identified as "revised". The area has been revised on chart 12335, 40th Ed., Sep/03, subsequent to the present survey. No change in charting status is recommended.

5) ENC 1370, the charted pier, Pier 3, in the vicinity of Latitude 40°41'52.5"N, Longitude 74°00'00.0"W, was identified as "revised". The area has been revised on chart 12335, 40th Ed., Sep/03, subsequent to the present survey. No change in charting status is recommended.

6) ENC 1371 and 1372, two charted piers, in the vicinity of

Latitude 40°41'49"N, Longitude 74°00'00"W, and Latitude 40°41'48.0"N, Longitude 74°00'02.5"W, were identified as "ruins". The area has been revised on chart 12335, 40th Ed., Sep/03, subsequent to the present survey. No change in charting status is recommended.

7) ENC 1373, charted pier, Pier 5, in the vicinity of Latitude 40°41'41.5"N, Longitude 74°00'06.5"W, were identified as "revised". The area has been revised on chart 12335, 40th Ed., Sep/03, subsequent to the present survey. No change in charting status is recommended.

8) ENC 1374, charted pier, Pier 6, in the vicinity of Latitude 40°41'35.5"N, Longitude 74°00'09.0"W, were identified as "revised". The area has been revised on chart 12335, 40th Ed., Sep/03, subsequent to the present survey. No change in charting status is recommended.

9) ENC 1375, charted pier, Pier 7, in the vicinity of Latitude 40°41'30.5"N, Longitude 74°00'11.5"W, were identified as "revised". The area has been revised on chart 12335, 40th Ed., Sep/03, subsequent to the present survey. No change in charting status is recommended.

10) ENC 1376, charted pier, Pier 8, in the vicinity of Latitude 40°41'25.0"N, Longitude 74°00'15.5"W, were identified as "revised". The area has been revised on chart 12335, 40th Ed., Sep/03, subsequent to the present survey. No change in charting status is recommended.

11) ENC 1377, charted pier, Pier 9A, in the vicinity of Latitude 40°41'20.0"N, Longitude 74°00'20.5"W, were identified as "revised". The area has been revised on chart 12335, 40th Ed., Sep/03, subsequent to the present survey. No change in charting status is recommended.

12) ENC 1378, charted pier, Pier 9B, in the vicinity of Latitude 40°41'15.0"N, Longitude 74°00'23.5"W, were identified as "revised". The area has been revised on chart 12335, 40th Ed., Sep/03, subsequent to the present survey. No change in charting status is recommended.

SHORELINE

Brown shoreline originates with National Ocean Survey (NOS) charts 12331, (30th Edition, Dec 2002), 12333, (33rd Edition, Sep

2003), 12334, (66th Edition, May 2003), 12335, (40th Edition, Sep 2003), 12337, (22nd Edition, Nov 15, 1997), 12339, (44th Edition, Oct 2003), 12341, (26th Edition, June 2003), 12401, (7th Edition, May 2002), and chart 12402, (8th Edition, May 2002) and is for orientation purposes only.

Dangers to Navigation

One Danger to Navigation report, dated May, 25, 2001 was submitted to Commander(oan), First Coast Guard District, Boston, Massachusetts for inclusion in the Local Notice to Mariners, and to the Marine Chart Division, N/CS3x1, Silver Spring, Maryland. A copy of this report is appended to the Evaluation Report.

ADEQUACY OF SURVEY

This is an adequate hydrographic survey. No additional work is recommended except as noted in Section D. of this report.

F00463

Duvalat a. Blane *per*

Douglas V. Mason
Cartographic Technician
Verification of Field Data

APPROVAL SHEET
F00463

The completed survey has been inspected with regard to survey coverage, delineation of depth curves, development of critical depths, cartographic symbolization, and verification or disapproval of charted data. The digital data have been completed and all revisions and additions made to the smooth sheet during survey processing have been entered in the digital data for this survey. The survey records and digital data comply with NOS requirements except where noted in the Evaluation Report.

Deborah A. Bland

Deborah A. Bland, Cartographer,
Atlantic Hydrographic Branch

Date: 25 March 2005

I have reviewed the smooth sheet, accompanying data, and reports. This survey and accompanying digital data meet or exceed NOS requirements and standards for products in support of nautical charting except where noted in the Evaluation Report.

Approved: _____

P. Tod Schattgen

P. Tod Schattgen
Lieutenant Commander, NOAA
Chief, Atlantic Hydrographic Branch

Date: _____

3/25/05

REPORT OF DANGERS TO NAVIGATION

Hydrographic Survey Registry Number: F00463 - SHEET 14

Survey Title: State: NEW YORK
 Locality: HUDSON RIVER
 Sublocality: HOLLAND TUNNEL TO CHELSEA DOCKS

Project Number: OPR-C410-NRB

Field Unit: FIELD UNIT - NOAA LAUNCH 1210

Survey Dates: May 1 - August 24, 2000

Soundings are reduced to Mean Lower Low Water (MLLW) using approved tides.
Horizontal datum is North American Datum 83 (NAD 83).

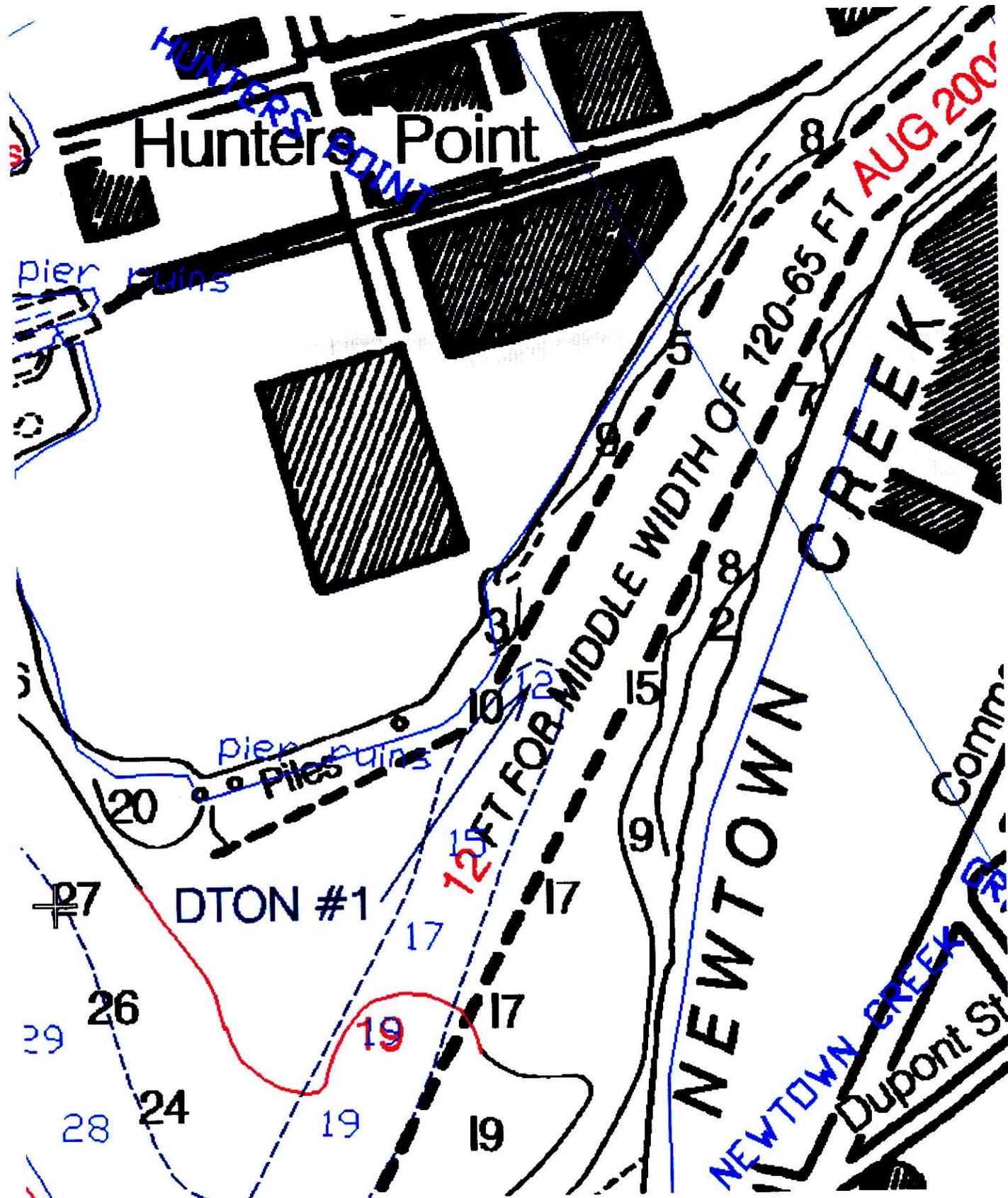
Chart affected: 12335 40th Edition, September 2003, Scale 1:10,000, NAD83
 Corrected through NM Aug. 30/03
 Corrected through LNM Aug. 19/03

DANGER TO NAVIGATION

1. Shoaling in Newtown Creek has caused the controlling depth to change:	<u>Latitude (N)</u>	<u>Longitude (W)</u>
	40° 44' 17.8"	073° 57' 33.0"

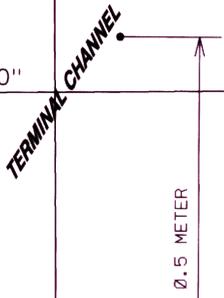
Revise the note from: 16 FT FOR MIDDLE WIDTH OF 120-65 FT NOV 1992 to
 12 FT FOR MIDDLE WIDTH OF 120-65 FT AUG 2000.

Questions concerning this report should be directed to the Chief, Atlantic Hydrographic Branch at
(757) 441-6746.



74° 02' 30" 74° 02' 00" 74° 01' 30" 74° 01' 00" 74° 00' 30" 74° 00' 00" 73° 59' 30" 73° 59' 00"

40° 28' 00" 40° 27' 30" 40° 27' 00" 40° 26' 30" 40° 26' 00" 40° 25' 30"



SANDY HOOK BAY

SANDY HOOK

FALSE HOOK CHANNEL

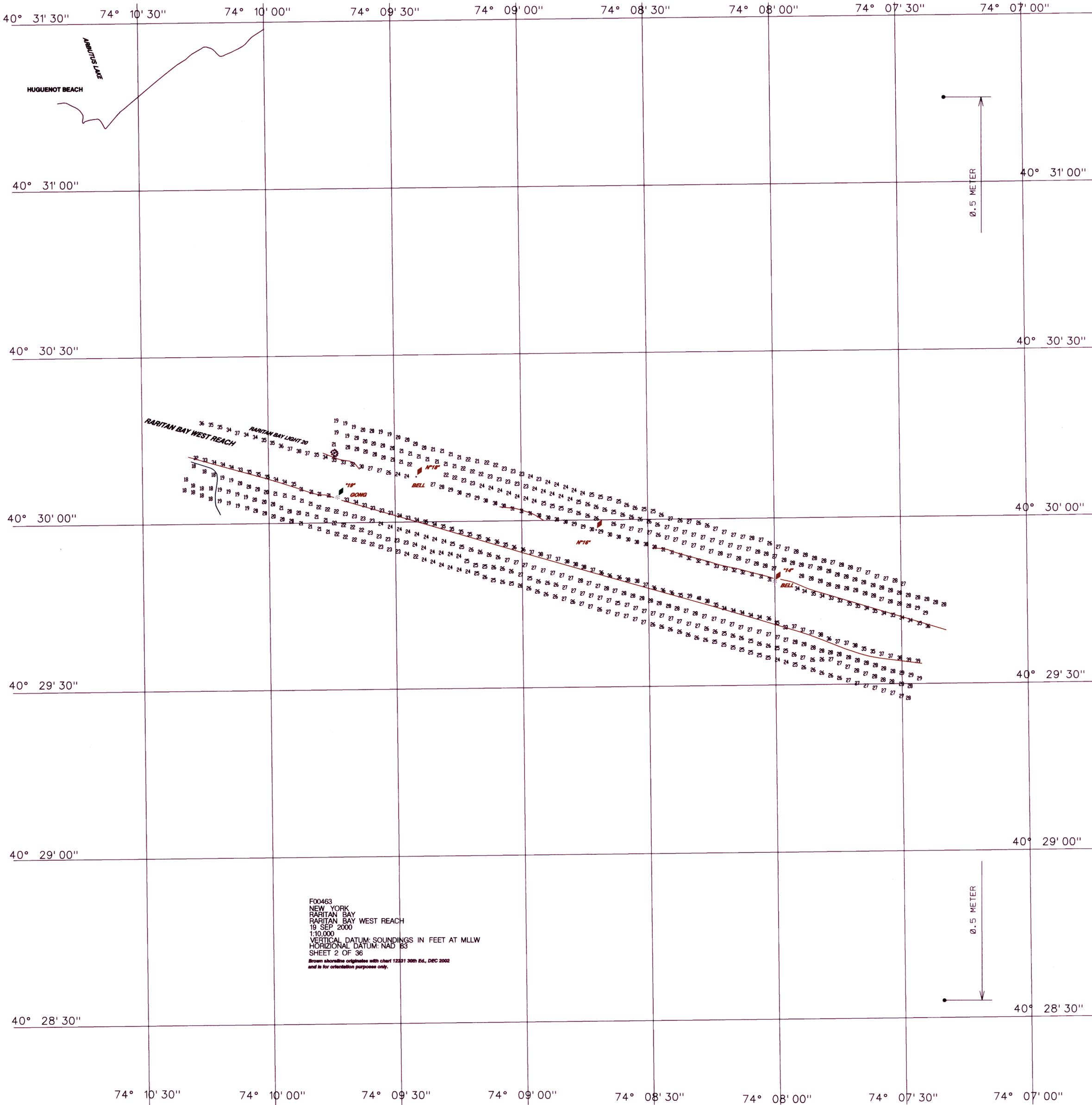
F00463
NEW JERSEY
NEW YORK LOWER BAY
SANDY HOOK BAY
15 MAY 2000 TO 10 JUN 2000
1:10,000
VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
HORIZONTAL DATUM: NAD 83
SHEET 1 of 36
AWOIS ITEM: 10648
ENC ITEMS: 324 AND 514
*Brown shoreline originates with chart 13401, 7th Ed., May 2002,
and is for orientation purposes only.*

HORSESHOE COVE

SPERMACETI COVE

(28) SANDY HOOK BAY ATLANTIC HIGHLANDS BREAKWATER LIGHT

74° 02' 30" 74° 02' 00" 74° 01' 30" 74° 01' 00" 74° 00' 30" 74° 00' 00" 73° 59' 30" 73° 59' 00"



74° 16' 00"

74° 15' 30"

74° 15' 00"

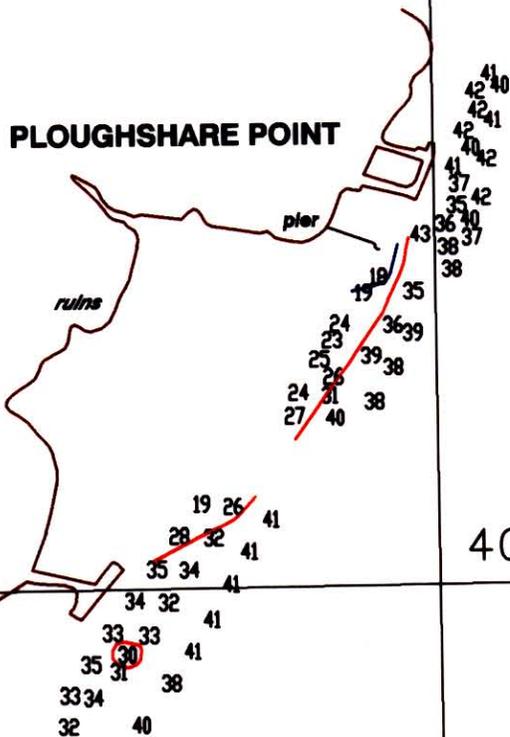
40° 31' 30"

40° 31' 30"

F00463
NEW YORK
RARITAN BAY
WARD POINT BEND (WEST)
14 SEP 2000
1:10,000
VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
HORIZONTAL DATUM: NAD 83
SHEET 3 OF 36
ENC ITEMS: 237,238,1546,1561

Brown shoreline originates with chart 12331 30th Ed., Dec 2002 and is for orientation purposes only.

PLOUGHSHARE POINT



41 40
42 41
42 40
41 37
42 40
36 37
36 38
38

19 19
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24 23
25 23
36 39
39 38
24 26
27 31
38 40

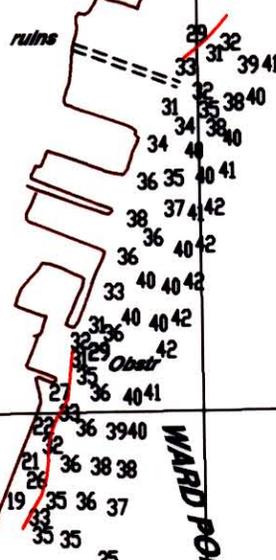
19 26
28 32
41
35 34
41
34 32
41
33 33
41
35 31
38
33 34
32 40

40° 31' 00"

40° 31' 00"

(offshore end covered 29ft at MLLW)

PERTH AMBOY

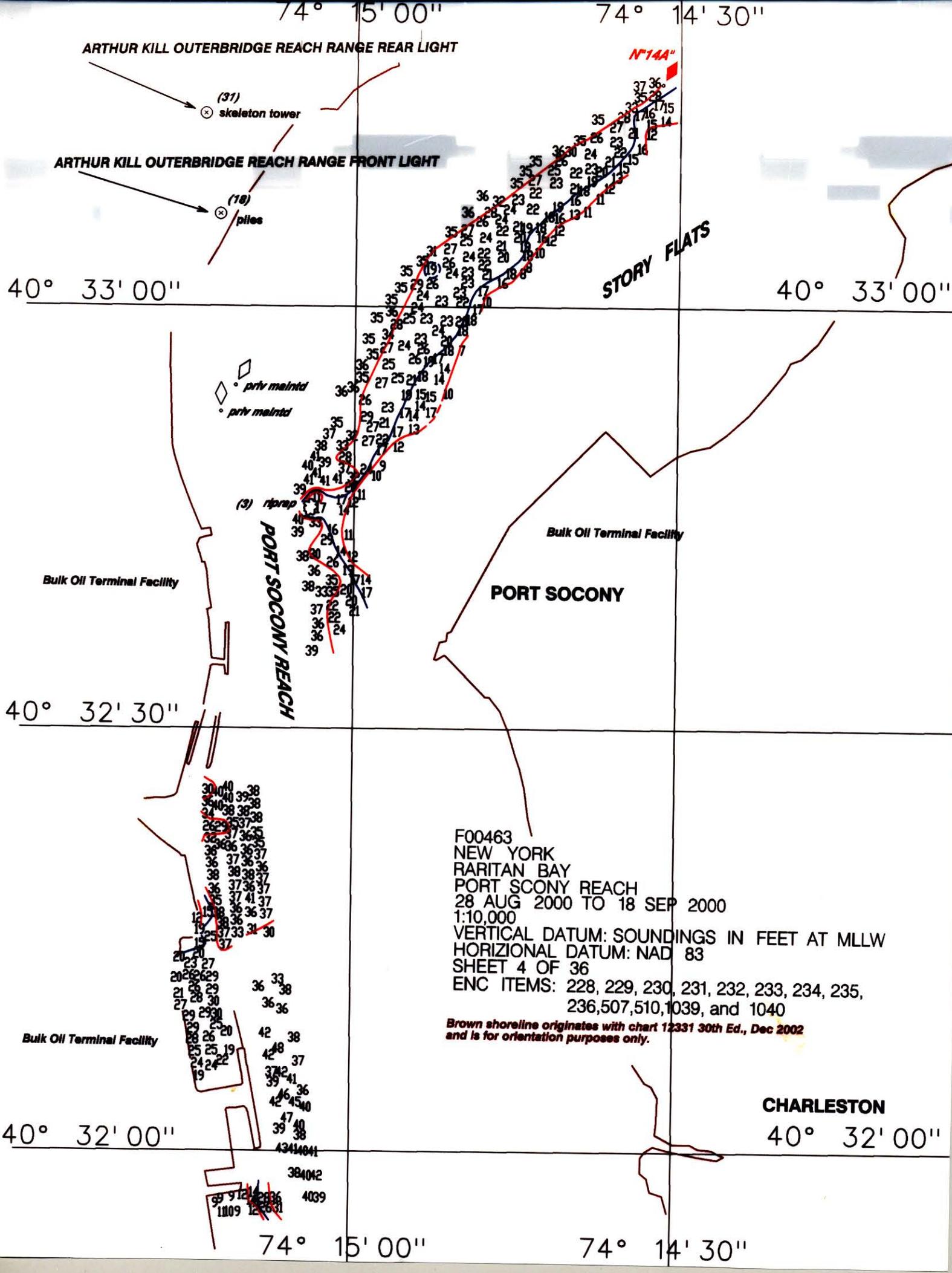


TOTTENVILLE

40° 30' 30"

WARD POINT BEND (WEST)

bkw
bkw



ARTHUR KILL OUTERBRIDGE REACH RANGE REAR LIGHT

(31) skeleton tower

ARTHUR KILL OUTERBRIDGE REACH RANGE FRONT LIGHT

(18) piles

N¹⁴⁴

STORY FLATS

PORT SOCONY REACH

Bulk Oil Terminal Facility

PORT SOCONY

Bulk Oil Terminal Facility

F00463
 NEW YORK
 RARITAN BAY
 PORT SOCONY REACH
 28 AUG 2000 TO 18 SEP 2000
 1:10,000
 VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
 HORIZONTAL DATUM: NAD 83
 SHEET 4 OF 36
 ENC ITEMS: 228, 229, 230, 231, 232, 233, 234, 235,
 236, 507, 510, 1039, and 1040

Brown shoreline originates with chart 12331 30th Ed., Dec 2002 and is for orientation purposes only.

Bulk Oil Terminal Facility

CHARLESTON

74° 15' 00"

74° 14' 30"

40° 33' 00"

40° 33' 00"

40° 32' 30"

40° 32' 00"

40° 32' 00"

74° 14' 30"

74° 14' 00"

74° 13' 30"

74° 13' 00"

74° 12' 30"

40° 34' 30"

ISLAND OF MEADOWS

GREAT FRESH KILLS

CHROME

F00463
 NEW YORK
 RARITAN BAY
 PORT READING REACH AND FRESH KILLS REACH
 28 AUG 2000 TO SEP 18 2000
 1:10,000
 VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
 HORIZONTAL DATUM: NAD 83
 SHEET 5 OF 36
 ENC ITEMS: 219, 220, 221, 222, 223, 810, 1516, 1517, 1523
 Brown shoreline originates with chart 12331 30th Ed., Dec 2002
 and is for orientation purposes only.

CEDAR POINT

PORT READING

40° 34' 00"

40° 34' 00"

SMITH CREEK

ARTHUR KILL

TUFTS POINT

40° 33' 30"

40° 33' 30"

PORT READING REACH

foul w/debris

SMOKING POINT

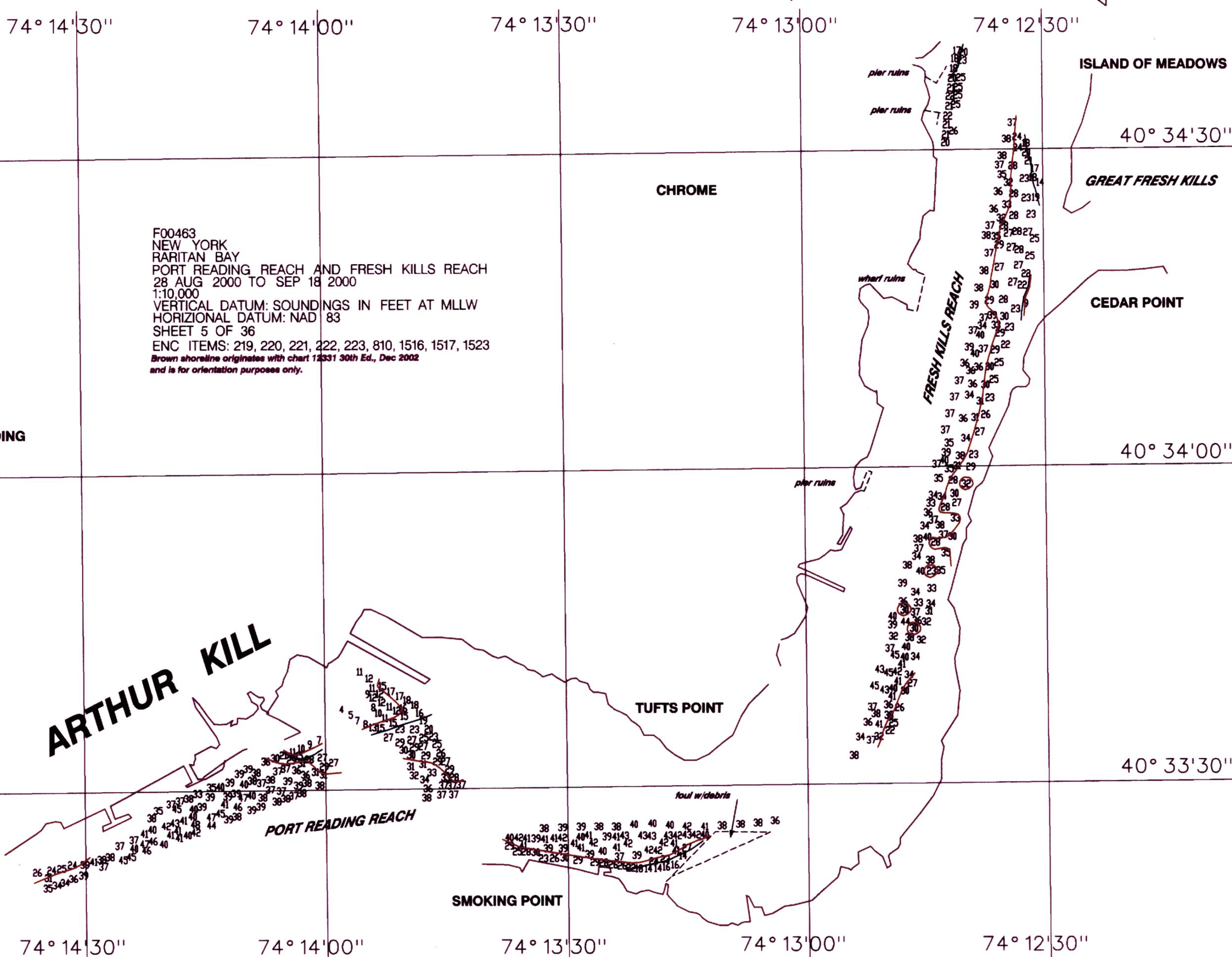
74° 14' 30"

74° 14' 00"

74° 13' 30"

74° 13' 00"

74° 12' 30"



74° 13' 00"

74° 12' 30"

74° 12' 00"

GULFPORT

74° 11' 30"

40° 37' 30"

40° 37' 30"

F00463
 NEW YORK-NEW JERSEY
 NORTHERN PART OF ARTHUR KILL
 PORT READING REACH AND FRESH KILLS REACH
 28 AUG 2000
 1:10,000
 VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
 HORIZONTAL DATUM: NAD 83
 SHEET 6 OF 36
 ENC NUMBERS: 256, 257, 258, 259, 260, 519, 1664
*Brown shoreline originates with chart 12333 33rd Ed., Sep 2003
 and is for orientation purposes only.*

GULFPORT REACH



PRALLS CREEK

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8
7
6
5
4
3
2
1

40° 37' 00"

40° 37' 00"

GRASSELLI

PRALLS ISLAND REACH

PRALLS ISLAND

PRALLS CREEK

40° 36' 30"

40° 36' 30"



SAWMILL CREEK

ARTHUR KILL PRALLS ISLAND CHANNEL RANGE FRONT LIGHT



ARTHUR KILL PRALLS ISLAND CHANNEL RANGE REAR LIGHT



CHELSEA

40° 36' 00"

RAHWAY RIVER

TREMLEY POINT

pier ruins

74° 13' 00"

74° 12' 30"

74° 12' 00"

74° 11' 30"

74° 12' 00"

74° 11' 30"

74° 11' 00"

ELIZABETHPORT

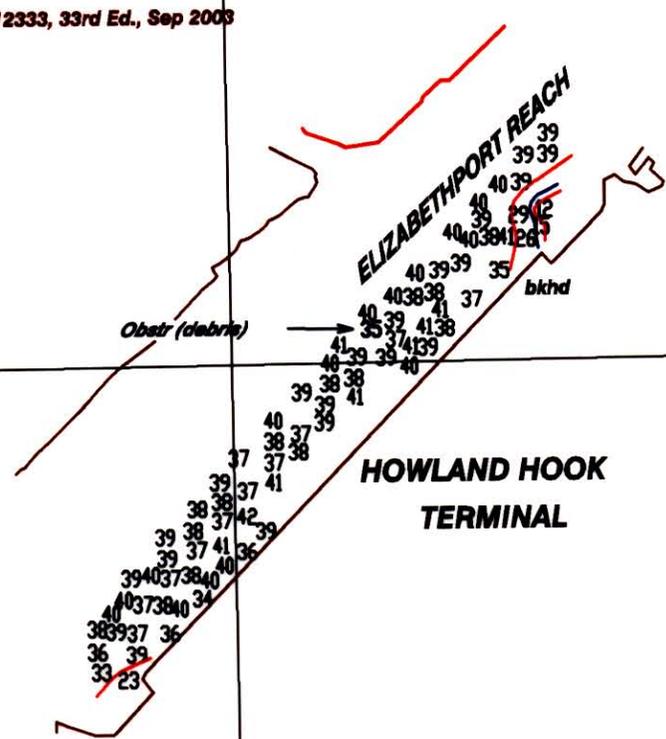
40° 39' 00"

40° 39' 00"

F00463
 NEW YORK-NEW JERSEY
 NORTHERN PART OF ARTHUR KILL
 ELIZABETH REACH
 19 SEPT 2000 TO 21 SEPT 2000
 1:10,000
 VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
 HORIZONTAL DATUM: NAD 83
 SHEET 7 OF 36
 ENC NUMBER: 1078
*Brown shoreline originates with chart 12333, 33rd Ed., Sep 2003
 and is for orientation purposes only.*

40° 38' 30"

40° 38' 30"



40° 38' 00"

40° 38' 00"

OLD PLACE

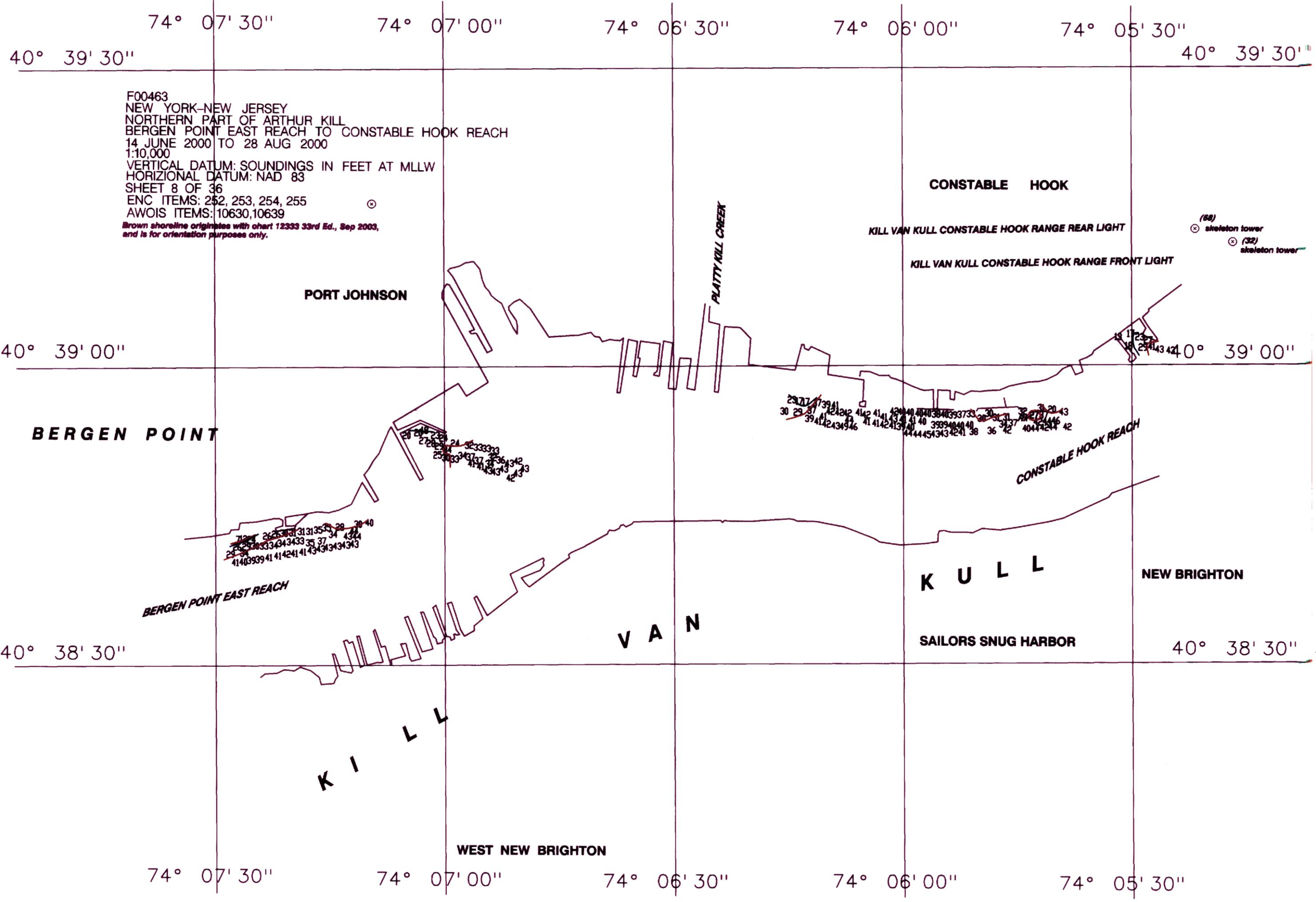
GULFPORT

OLD PLACE CREEK

74° 12' 00"

74° 11' 30"

74° 11' 00"



F00463
NEW YORK-NEW JERSEY
NORTHERN PART OF ARTHUR KILL
BERGEN POINT EAST REACH TO CONSTABLE HOOK REACH
14 JUNE 2000 TO 28 AUG 2000
1:10,000
VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
HORIZONTAL DATUM: NAD 83
SHEET 8 OF 36
ENC ITEMS: 252, 253, 254, 255
AWOIS ITEMS: 10630, 10639

Brown shoreline originates with chart 12333 33rd Ed., Sep 2003, and is for orientation purposes only.

CONSTABLE HOOK

KILL VAN KULL CONSTABLE HOOK RANGE REAR LIGHT

KILL VAN KULL CONSTABLE HOOK RANGE FRONT LIGHT

(68) skeleton tower
(32) skeleton tower

PORT JOHNSON

PLATTY KILL CREEK

40° 39' 00"

40° 39' 00"

BERGEN POINT

BERGEN POINT EAST REACH

CONSTABLE HOOK REACH

KULL

NEW BRIGHTON

VAN

SAILORS SNUG HARBOR

40° 38' 30"

40° 38' 30"

KILL

WEST NEW BRIGHTON

74° 07' 30"

74° 07' 00"

74° 06' 30"

74° 06' 00"

74° 05' 30"

74° 05'30"

74° 05'00"

74° 04'30"

74° 04'00"

74° 03'30"

40° 41'00"

40° 41'00"

F00463
 NEW YORK-NEW JERSEY
 ANCHORAGE CHANNEL
 GREENVILLE CHANNEL TO CLAREMONT TERMINAL CHANNEL
 27 APRIL 2000 TO 16 AUG 2000
 1:10,000
 VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
 HORIZONTAL DATUM: NAD 83
 SHEET 10 OF 36
 ENC ITEMS: 1019, 1398, 1399, 1401
 Brown shoreline originates with NOS Chart 12334, 96th Ed., May 2003
 and is for orientation purposes only.

GREENVILLE YARD

CLAREMONT TERMINAL

CLAREMONT TERMINAL CHANNEL

PIERHEAD CHANNEL

40° 40'30"

GLOBAL MARINE TERMINAL

USCG Pier

bkhd

(8) two dots pier
(8) two dots

bkhd

MILITARY OCEAN TERMINAL

bkhd

(8) Pile

bkhd

GREENVILLE CHANNEL

JERSEY FLATS

40° 40'00"

40° 40'00"

74° 05'30"

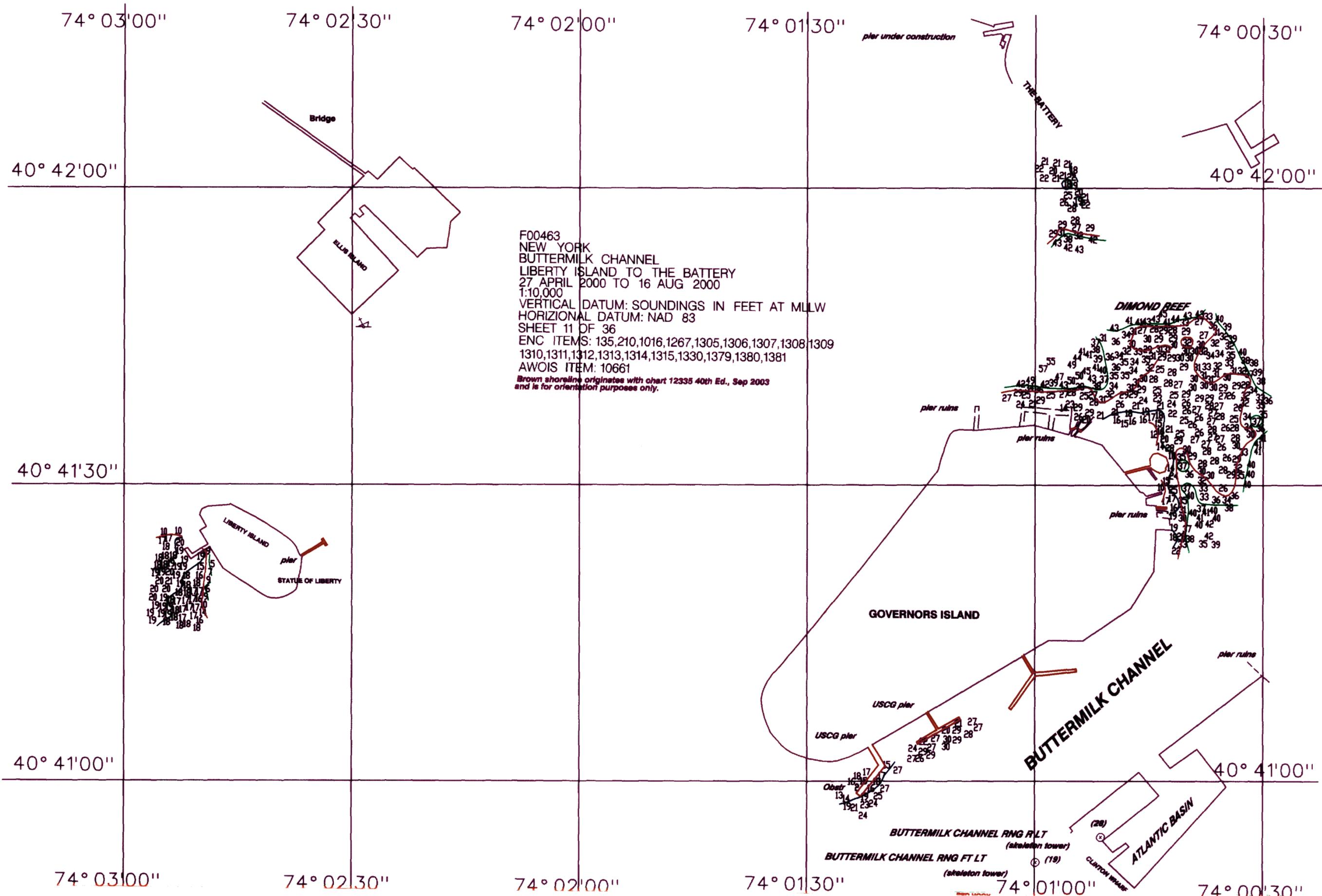
74° 05'00"

74° 04'30"

74° 04'00"

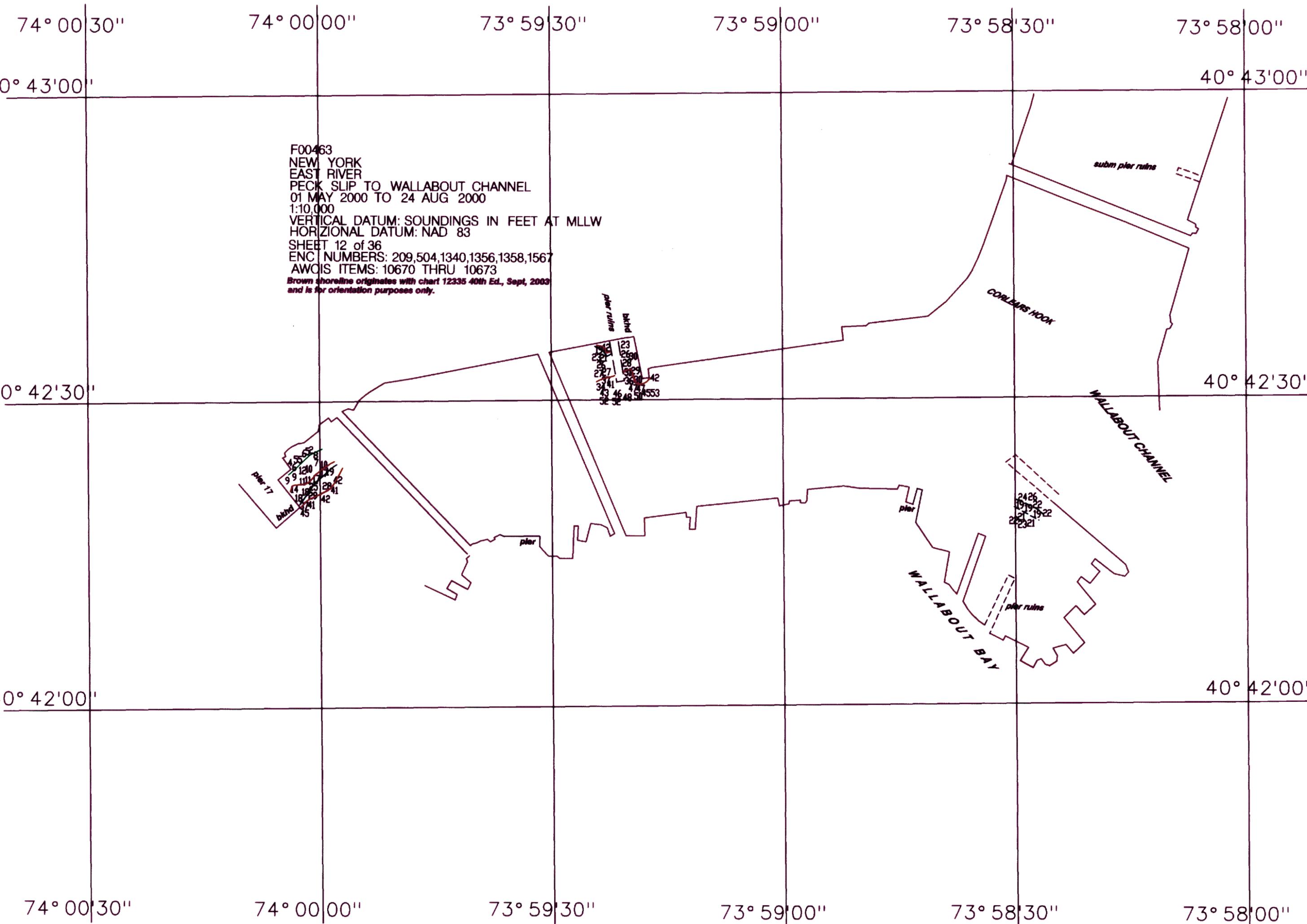
74° 03'30"

F00463
 NEW YORK
 BUTTERMILK CHANNEL
 LIBERTY ISLAND TO THE BATTERY
 27 APRIL 2000 TO 16 AUG 2000
 1:10,000
 VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
 HORIZONTAL DATUM: NAD 83
 SHEET 11 OF 36
 ENC ITEMS: 135,210,1016,1267,1305,1306,1307,1308,1309
 1310,1311,1312,1313,1314,1315,1330,1379,1380,1381
 AWOIS ITEM: 10661
*Brown shoreline originates with chart 12335 40th Ed., Sep 2003
 and is for orientation purposes only.*



NOTE: THIS SHEET (11 OF 36) HAS BEEN REPLOTED ON 6-1-2005. THIS IS THE NEW PLOT FOR SHEET 11.

RED HOOK



F00463
 NEW YORK
 EAST RIVER
 PECK SLIP TO WALLABOUT CHANNEL
 01 MAY 2000 TO 24 AUG 2000
 1:10,000
 VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
 HORIZONTAL DATUM: NAD 83
 SHEET 12 of 36
 ENC NUMBERS: 209,504,1340,1356,1358,1567
 AWOIS ITEMS: 10670 THRU 10673
*Brown shoreline originates with chart 12335 40th Ed., Sept, 2003
 and is for orientation purposes only.*

pier 17
 blind
 45 52
 9 9 120 8
 14 111 11
 18 185 28 42
 24 41
 45

pier ruins
 blind
 23 27
 24 27
 25 27
 26 27
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 100 27

subm pier ruins

CORLEARS HOOK

WALLABOUT CHANNEL

pier
 WALLABOUT BAY
 pier ruins
 2426
 191922
 21 1922
 22 21

74° 00' 30"
 74° 00' 00"
 74° 00' 30"
 0° 43' 00"
 0° 42' 30"
 0° 42' 00"

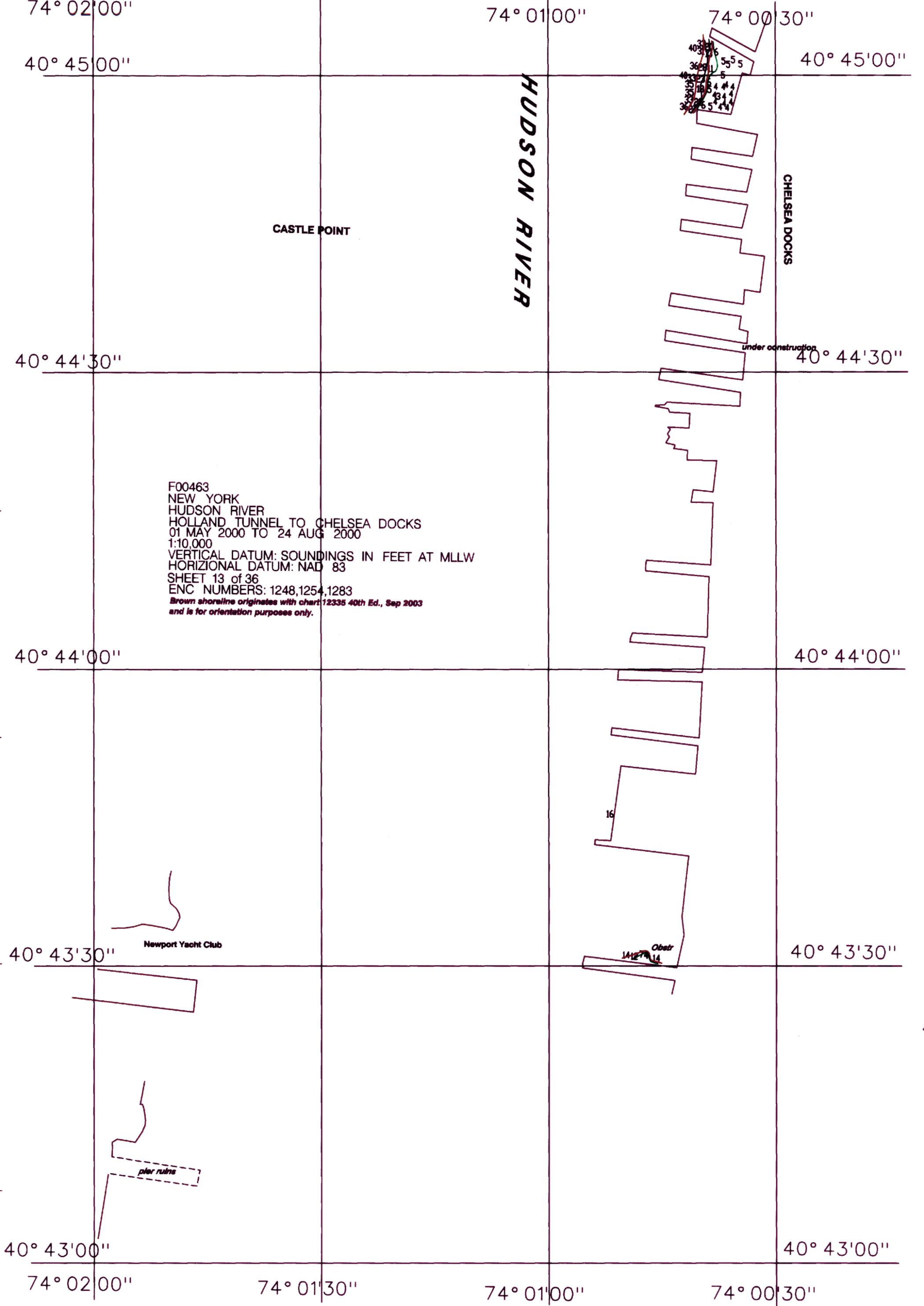
74° 00' 30"
 74° 00' 00"
 74° 00' 30"
 74° 00' 00"

73° 59' 30"
 73° 59' 30"
 73° 59' 30"
 73° 59' 30"

73° 59' 00"
 73° 59' 00"
 73° 59' 00"
 73° 59' 00"

73° 58' 30"
 73° 58' 30"
 73° 58' 30"
 73° 58' 30"

73° 58' 00"
 73° 58' 00"
 73° 58' 00"
 73° 58' 00"
 40° 43' 00"
 40° 42' 30"
 40° 42' 00"
 40° 43' 00"
 40° 42' 30"
 40° 42' 00"



74° 02' 00"

74° 01' 00"

74° 00' 30"

40° 45' 00"

40° 45' 00"

HUDSON RIVER

CHELSEA DOCKS

CASTLE POINT

40° 44' 30"

40° 44' 30"

F00463
NEW YORK
HUDSON RIVER
HOLLAND TUNNEL TO CHELSEA DOCKS
01 MAY 2000 TO 24 AUG 2000
1:10,000
VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
HORIZONTAL DATUM: NAD 83
SHEET 13 of 36
ENC NUMBERS: 1248,1254,1283
*Brown shoreline originates with chart 12335 40th Ed., Sep 2003
and is for orientation purposes only.*

40° 44' 00"

40° 44' 00"

40° 43' 30"

40° 43' 30"

Newport Yacht Club

16

Obstr

40° 43' 00"

40° 43' 00"

pier ruins

74° 02' 00"

74° 01' 30"

74° 01' 00"

74° 00' 30"

73° 59' 00"

73° 58' 30"

73° 58' 00"

73° 57' 30"

40° 45' 00"

40° 45' 00"

F00463
 NEW YORK
 EAST RIVER
 BELMONT ISLAND TO METROPOLITAN AVE.
 01 MAY 2000 TO 24 AUG 2000
 1:10,000
 VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
 HORIZONTAL DATUM: NAD 83
 SHEET 14 OF 36
 ENC NUMBERS: 263, 301, 404 THRU 409,
 411, 501, 848, 850 AND 851
*Brown shoreline originates with chart 12335 40th Ed.
 Sept. 2003 and is for orientation purposes only.*

40° 44' 30"

A EAST RIVER MAIN CHANNEL POORHOUSE FLATS RNG R LT
B EAST RIVER MAIN CHANNEL POORhouse FLATS RNG FT LT

40° 44' 00"

40° 44' 00"

EAST RIVER

PUBLIC PARK

40° 43' 30"

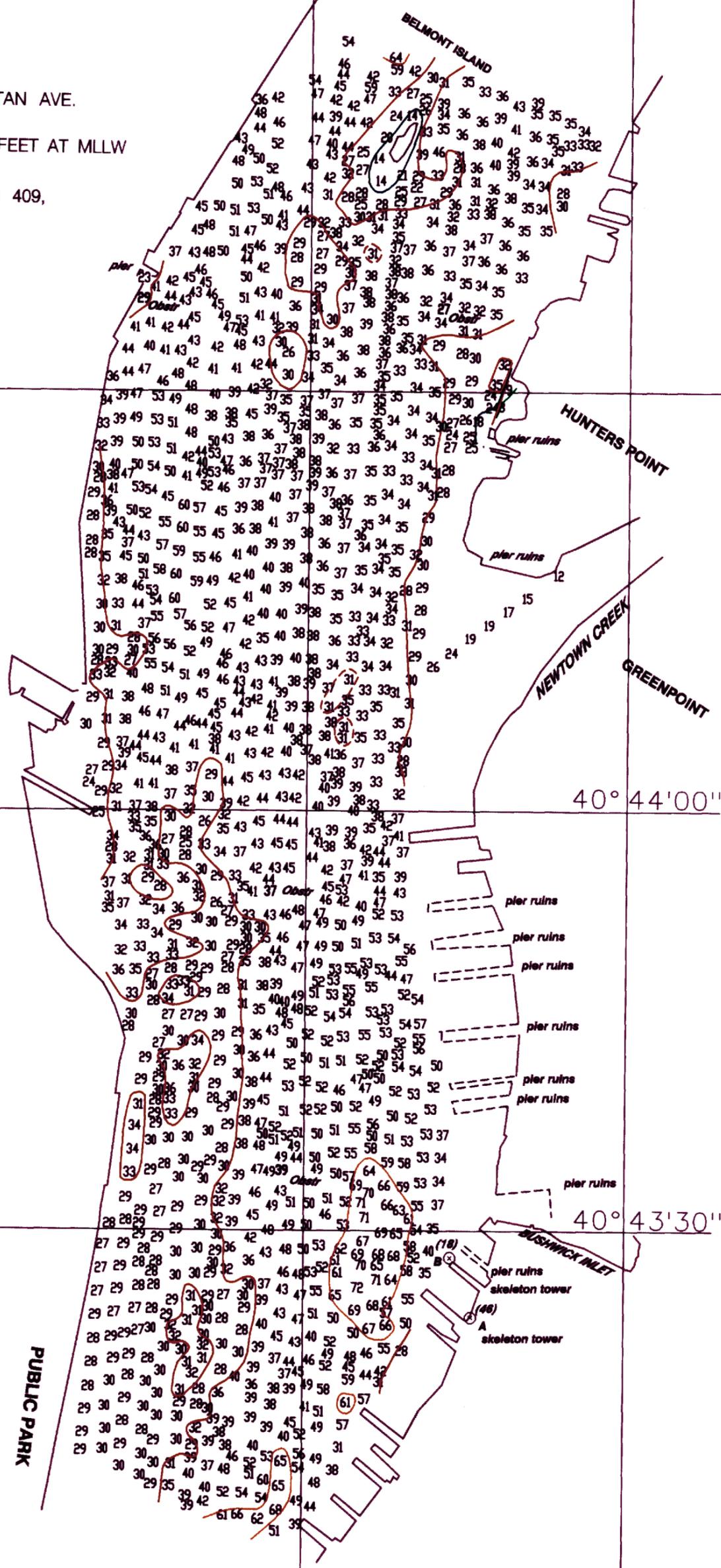
40° 43' 30"

73° 59' 00"

73° 58' 30"

73° 58' 00"

40° 43' 00"



74° 00' 00"

73° 59' 30"

73° 59' 00"

40° 48' 00"

40° 48' 00"



40° 47' 30"

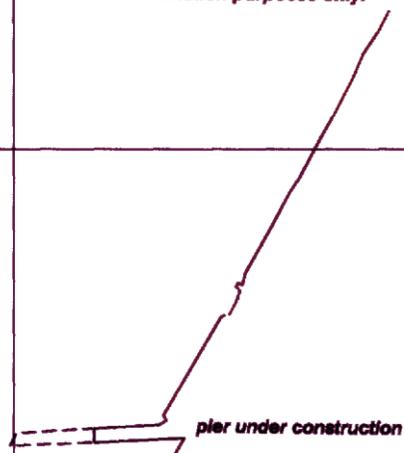
40° 47' 30"

GUTTENBURG

F00463
 NEW YORK-NEW JERSEY
 HUDSON RIVER
 DAYS POINT TO RIVERSIDE PARK
 24 AUG 2000
 1:10,000
 VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
 HORIZONTAL DATUM: NAD 83
 SHEET 16 OF 36
 ENC NUMBERS: 201 THRU 203, 431, 441, 442
*Brown shoreline originates with chart 12341 26th Ed., JUNE 2003
 and is for orientation purposes only.*

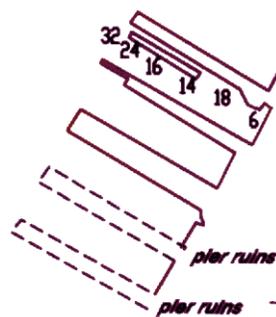
40° 47' 00"

40° 47' 00"



40° 46' 30"

40° 46' 30"



74° 00' 00"

73° 59' 30"

73° 59' 00"

74° 04' 30"

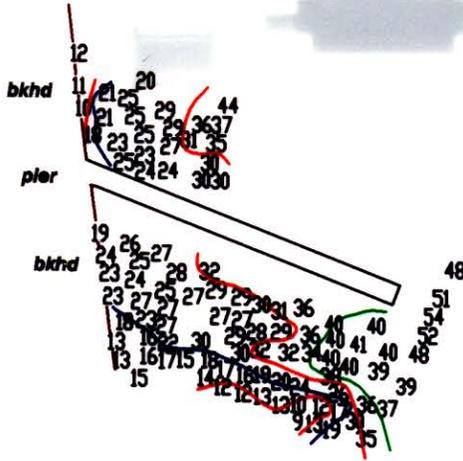
74° 04' 00"

74° 03' 30"

40° 38' 00"

40° 38' 00"

STAPLETON

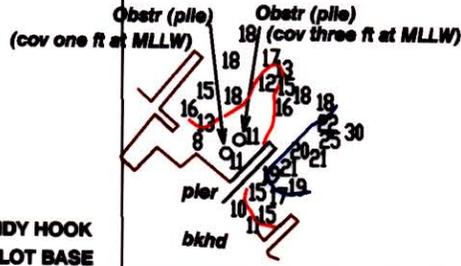


40° 37' 30"

40° 37' 30"

F00463
 NEW YORK
 NEW YORK HARBOR
 QUARANTINE USCG STATION PIER,
 SANDY HOOK PILOTS BASE TO STAPLETON PIER
 03 MAY 2000 TO 26 JUN 2000
 1:10,000
 VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
 HORIZONTAL DATUM: NAD 83
 SHEET 17 OF 36
 ENC NUMBERS: 1443,1450,1452
 AWOIS ITEM: 10653
*Brown shoreline originates with chart 12334 66th Ed., May 2003
 and is for orientation purposes only.*

CLIFTON



40° 37' 00"

40° 37' 00"

**SANDY HOOK
PILOT BASE**

QUARANTINE STATION

ROSEBANK



74° 04' 30"

74° 04' 00"

74° 03' 30"

74° 02' 30"

74° 02' 00"

74° 01' 30"

74° 01' 00"

40° 39' 30"

40° 39' 30"

BAY RIDGE FLATS

40° 39' 00"

40° 39' 00"

40° 38' 30"

40° 38' 30"

BAY RIDGE CHANNEL

40° 38' 00"

40° 38' 00"

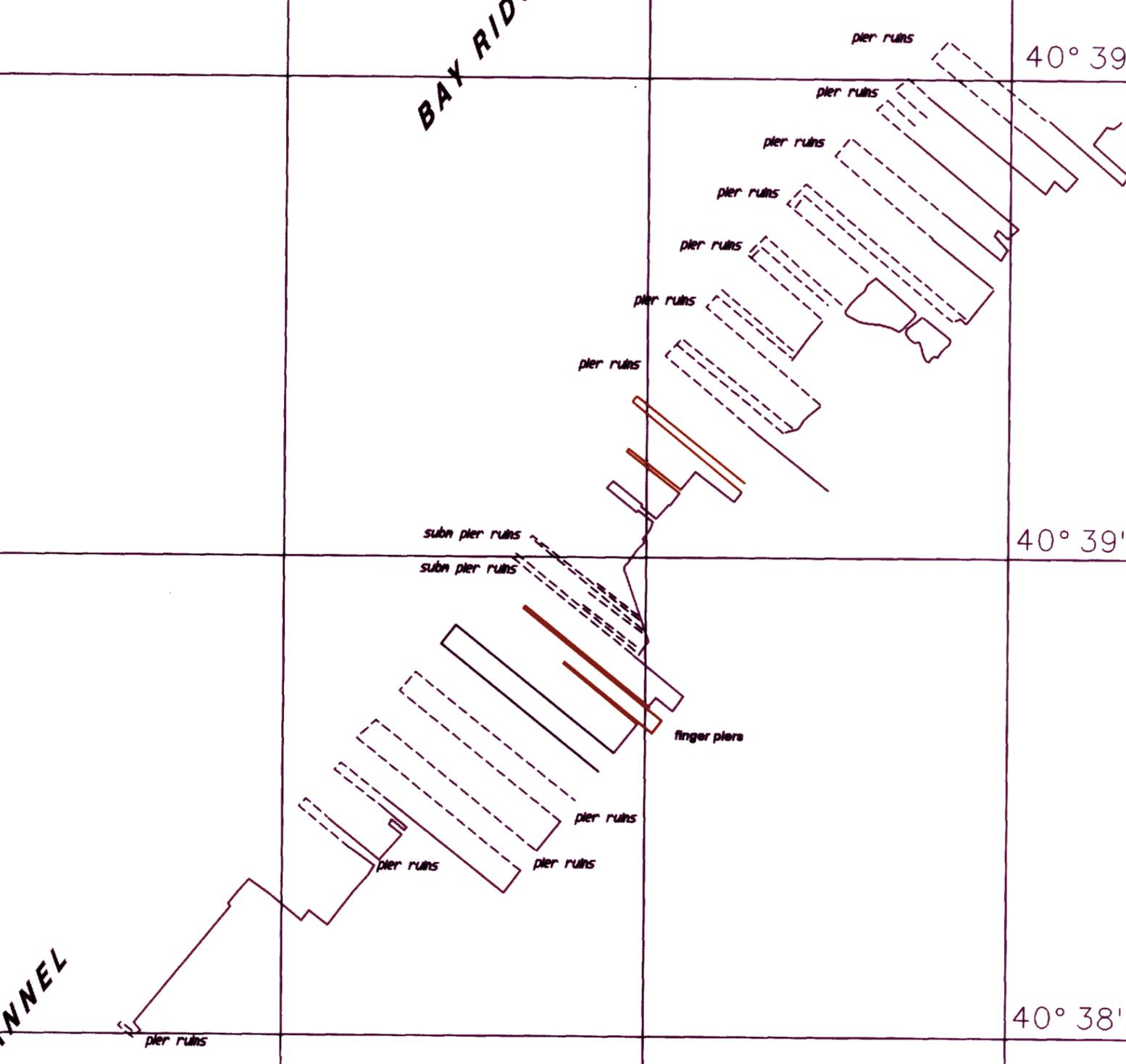
BROOKLYN

74° 02' 30"

74° 02' 00"

74° 01' 30"

74° 01' 00"



OWLS HEAD PARK

Department of Environmental Protection pier

BAY RIDGE

F00463
 NEW YORK
 BROOKLYN
 BAY RIDGE CHANNEL TO BAY RIDGE FLATS
 27 JUN 2000
 1:10,000

VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
 HORIZONTAL DATUM: NAD 83

SHEET 18 OF 36
 ENC ITEMS 1456 THRU 1465, 1467 THRU 1476

Brown shoreline originates with chart 12234, 66th Ed., May 2003 and is for orientation purposes only.

74° 00' 30"

74° 00' 00"

73° 59' 30"

73° 59' 00"

73° 58' 30"

40° 29' 30"

40° 29' 30"

(91) ⊗ **SANDY HOOK CHANNEL RNG R LT**
skeleton tower

F00463
NEW JERSEY
NEW YORK LOWER BAY
SANDY HOOK BAY
19 JUN 2000
1:10,000
VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
HORIZONTAL DATUM: NAD 83
SHEET 19 of 36
ENC NUMBERS: 325,516,517,518

40° 29' 30"

40° 29' 30"

(41) ⊗ **SANDY HOOK CHANNEL RNG R LT**
skeleton tower
(41) ⊗ **SANDY HOOK CHANNEL RNG FT LT**
skeleton tower

40° 29' 00"

40° 29' 00"

74° 00' 30"

74° 00' 00"

73° 59' 30"

73° 59' 00"

73° 58' 30"

74° 03' 00"

74° 02' 30"

74° 02' 00"

F00463
 NEW JERSEY
 NEW YORK LOWER BAY
 CHAPEL HILL NORTH CHANNEL
 19 JUN 2000
 1:10,000
 VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
 HORIZONTAL DATUM: NAD 83
 SHEET 20 of 36
 ENC NUMBERS: 325
*Brown shoreline originates with chart 12402, 8th Ed., May 2002
 and is for orientation purposes only.*

40° 32' 30"

40° 32' 30"

AMBROSE CHANNEL WEST BANK RNG FT LT



conical tower

CHAPEL HILL NORTH CHANNEL

40° 32' 00"

74° 03' 00"

74° 02' 30"

74° 02' 00"

74° 03' 30"

74° 03' 00"

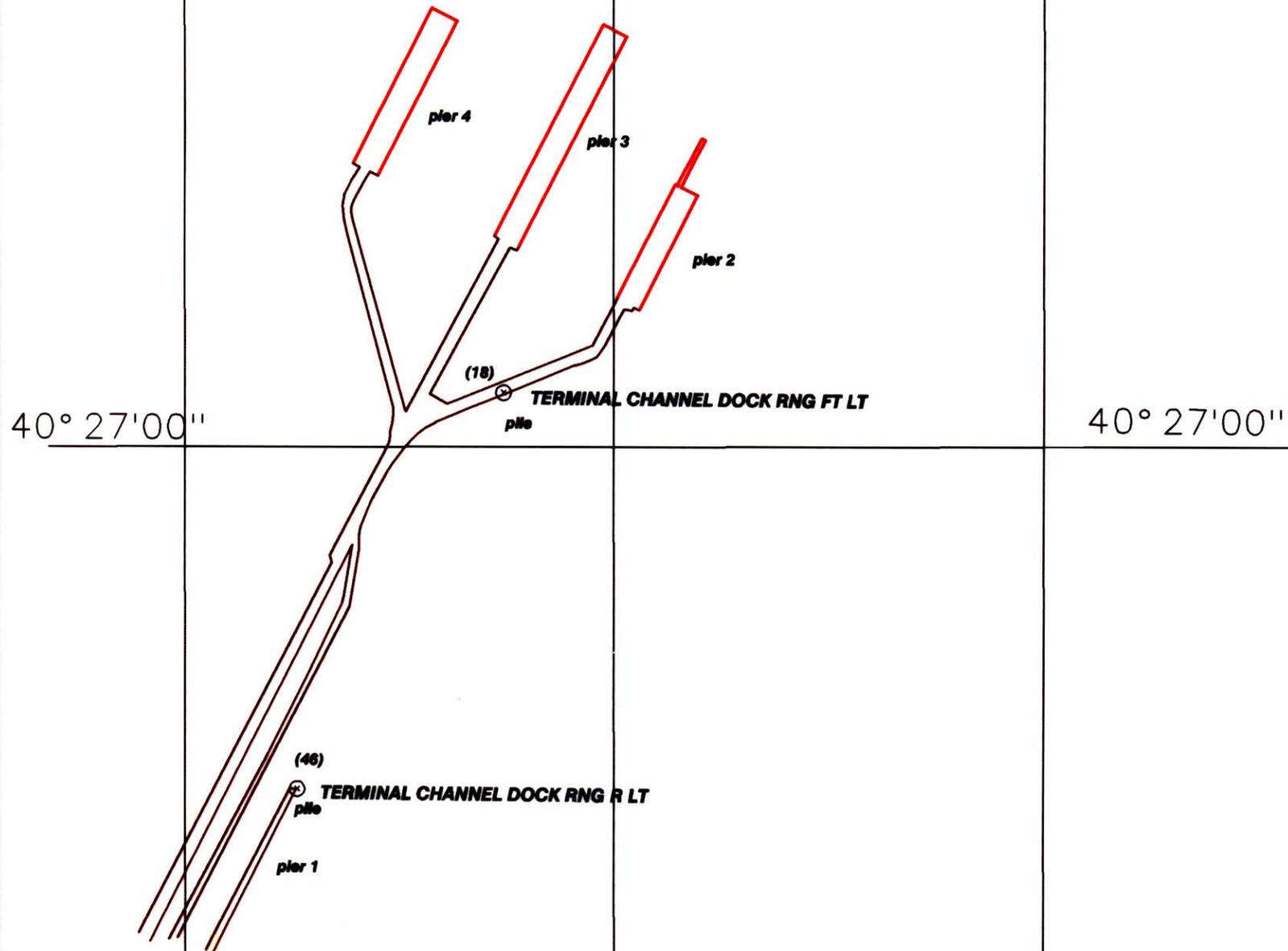
74° 02' 30"

FE00463
 NEW JERSEY
 NEW YORK LOWER BAY
 TERMINAL CHANNEL
 19 JUN 2000
 1:10,000
 VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
 HORIZONTAL DATUM: NAD 83
 SHEET 21 of 36

*Brown shoreline originates with chart 12401, 7th Ed., May 2002
 and is for orientation purposes only.*

40° 27' 30"

40° 27' 30"



40° 27' 00"

40° 27' 00"

40° 26' 30"

74° 03' 30"

74° 03' 00"

74° 02' 30"

74° 13' 00"

74° 12' 30"

74° 12' 00"

FE00463
 NEW YORK
 RARITAN BAY
 PRINCES BAY
 20 JUN 2000
 1:10,000
 VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
 HORIZONTAL DATUM: NAD 83
 SHEET 22 of 36
*Brown shoreline originates with chart 12331, 30th Ed., Dec 2002
 and is for orientation purposes only.*

LEMON CREEK

PRINCES BAY

40° 31' 00"

40° 31' 00"

SEGUINE POINT

PRINCES BAY

40° 30' 30"

(70) ⊗ RARITAN BAY PRINCES BAY RNG FT LT
 skeleton tower
 (83) ⊕ RARITAN BAY PRINCES BAY RNG R LT
 skeleton tower

SEGUINE POINT BEND

RED BANK

74° 13' 00"

74° 12' 30"

74° 12' 00"

74° 09' 00"

74° 08' 30"

74° 08' 00"

FE00463
NEW YORK
NEW YORK LOWER BAY
STATEN ISLAND
23 JUN 2000
1:10,000
VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
HORIZONTAL DATUM: NAD 83
SHEET 23 of 36

40° 35' 00"

40° 35' 00"

(220)

⊗ **AMBROSE CHANNEL STATEN ISLAND RNG R LT**

octal tower

40° 34' 30"

40° 34' 30"

40° 34' 00"

74° 09' 00"

74° 08' 30"

74° 08' 00"

74° 07' 00"
40° 34' 00"

74° 06' 30"

74° 06' 00"

40° 34' 00"

FE00463
NEW YORK
NEW YORK LOWER BAY
STATEN ISLAND
19 JUN 2000
1:10,000
VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
HORIZONTAL DATUM: NAD 83
SHEET 24 of 36

*Brown shoreline originates with chart 12402, 8th Ed., May 2002
and is for orientation purposes only.*

NEW DROP BEACH

40° 33' 30"

(69)

40° 33' 30"

⊗ SWASH CHANNEL RNG FT LT
octal tower

OAKWOOD BEACH

40° 33' 00"

40° 33' 00"

74° 07' 00"

74° 06' 30"

74° 06' 00"

74° 01'00"

74° 00'30"

40° 31'30"

40° 31'30"

FE00463
 NEW JERSEY
 NEW YORK LOWER BAY
 ROMER SHOAL
 19 JUN 2000
 1:10,000
 VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
 HORIZONTAL DATUM: NAD 83
 SHEET 25 of 36
*Brown shoreline originates with chart 12402, 8th Ed., May 2002
 and is for orientation purposes only.*

ROMER SHOAL

40° 31'00"

40° 31'00"

SWASH CHANNEL REACH

(65)



SWASH CHANNEL ROMER SHOAL LT

conical tower

40° 30'30"

40° 30'30"

74° 01'00"

74° 00'30"

73° 54' 30"

73° 54' 00"

73° 53' 30"

FE00463
 NEW YORK
 EAST RIVER
 VICINITY OF THE BROTHER ISLANDS
 23 AUG 2000 TO 24 AUG 2000
 1:10,000
 VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
 HORIZONTAL DATUM: NAD 83
 SHEET 26 of 36
*Brown shoreline originates with chart 12339, 44th Ed.,
 Oct 2003 and is for orientation purposes only.*

40° 48' 30"

40° 48' 30"



pier ruins

PORT MORRIS

bulk fuel oil terminal



NORTH BROTHER ISLAND

pier in ruins

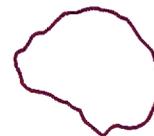
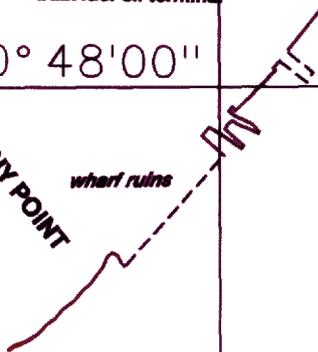
40° 48' 00"

40° 48' 00"

pier in ruins

STONY POINT

wharf ruins



SOUTH BROTHER ISLAND

40° 47' 30"

40° 47' 30"

LAWRENCE POINT LEDGE

SOUTH BROTHER ISLAND LEDGE

SOUTH BROTHER ISLAND CHANNEL

73° 54' 30"

73° 54' 00"

73° 53' 30"

73° 59' 00"

73° 58' 30"

73° 58' 00"

40° 49' 30"

40° 49' 30"

FE00463
NEW YORK-NEW JERSEY
HUDSON RIVER
DAYS POINT TO RIVERSIDE PARK
24 AUG 2000

1:10,000
VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
HORIZONTAL DATUM: NAD 83
SHEET 27 OF 36

*Brown shoreline originates with chart 12341, 26th Ed., June 2003
and is for orientation purposes only.*

EDGEWATER

WEHAWKEN-EDGEWATER CHANNEL

Edgewater Oil Terminal

40° 49' 00"

40° 49' 00"

40° 48' 30"

40° 48' 30"

73° 59' 00"

73° 58' 30"

73° 58' 00"



74° 01' 00"

74° 00' 30"

74° 00' 00"

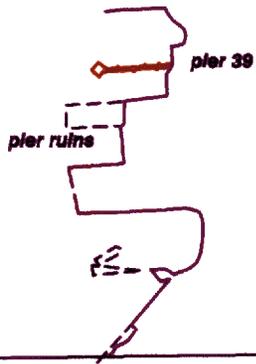
RED HOOK

FE00463
NEW YORK
BROOKLYN
69TH STREET PIER
27 JUN 2000
1:10,000

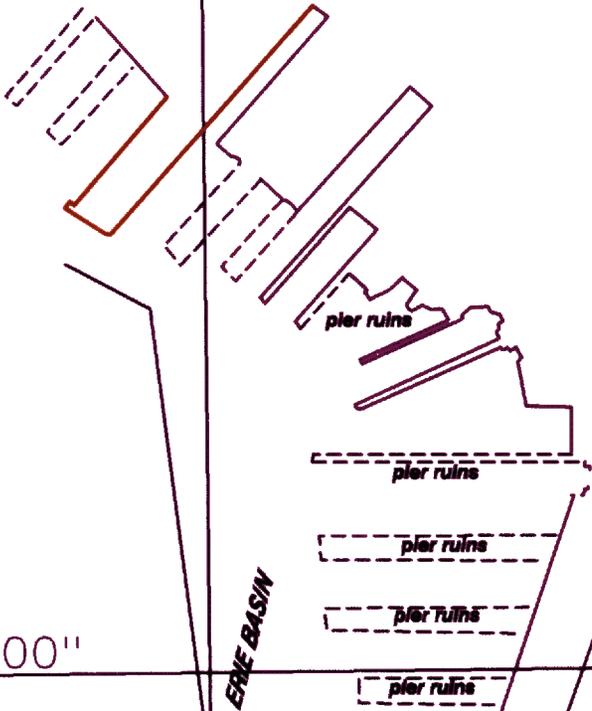
VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
HORIZONTAL DATUM: NAD 83

SHEET 28 OF 36

*Brown shoreline originates with chart 12334, 86th Ed., May 2003
and is for orientation purposes only.*



40° 40' 30"



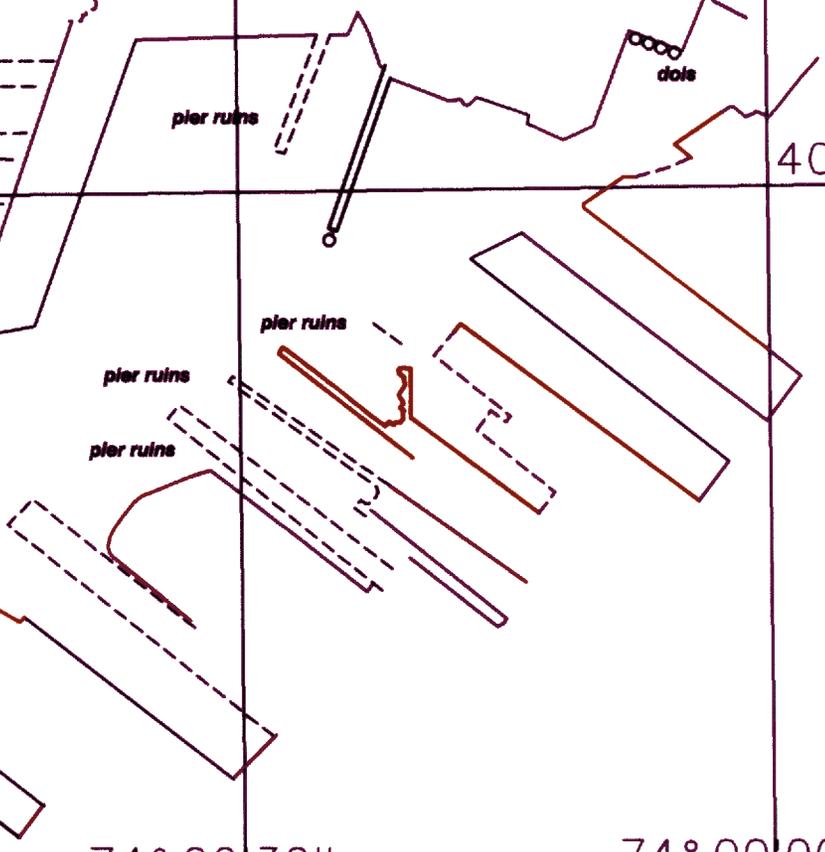
40° 40' 00"

40° 40' 00"

ERIE BASIN

GOWANUS BAY

bridge



40° 39' 30"

74° 00' 30"

74° 00' 00"

74° 09' 30"

74° 09' 00"

74° 08' 30"

SOUTH ELIZABETH CHANNEL

40° 39' 30"

40° 39' 30"

subm railway ruins

subm railway ruins

NEWARK BAY SOUTH REACH

40° 39' 00"

40° 39' 00"

FE00463
NEW YORK-NEW JERSEY
NORTHERN PART OF ARTHUR KILL
BERGEN POINT EAST REACH TO CONSTABLE HOOK REACH
14 JUNE 2000 TO 28 AUG 2000
1:10,000
VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
HORIZONTAL DATUM: NAD 83
SHEET 29 OF 36

*Brown shoreline originates with chart 12333, 33rd Ed., Sept. 2003
and is for orientation purposes only.*

SHOOTERS ISLAND

SOUTH SHOOTERS

BERGEN POINT WEST REACH

40° 38' 30"

ISLAND REACH

74° 09' 30"

74° 09' 00"

74° 08' 30"

74° 08' 00"

74° 07' 30"

74° 07' 00"

40° 42' 30"

40° 42' 30"

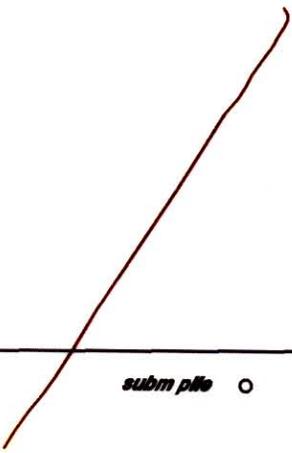
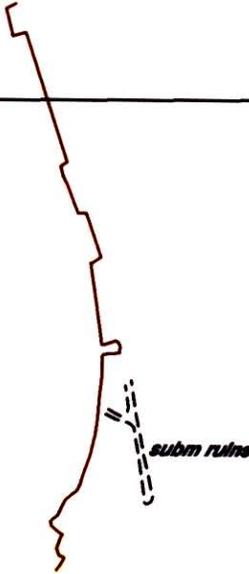
40° 42' 00"

40° 42' 00"

FE00463
 NEW JERSEY
 PASSAIC AND HACKENSACK RIVERS
 NEWARK BAY
 14 JUNE 2000 TO 28 AUG 2000
 1:10,000
 VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
 HORIZONTAL DATUM: NAD 83
 SHEET 30 OF 36

Brown shoreline originates with chart 12337, 22nd Ed., November 15, 1997 and is for orientation purposes only.

NEWARK BAY NORTH REACH



subm pile ○

74° 08' 00"

74° 07' 30"

74° 07' 00"

40° 41' 30"

40° 41' 30"

74° 06' 00"

74° 05' 30"

74° 05' 00"

40° 44' 30"

40° 44' 30"

MARION REACH



40° 44' 00"

40° 44' 00"

HACKENSACK RIVER

FE00463
NEW JERSEY
HACKENSACK RIVER
MARION REACH
14 JUNE 2000 TO 28 AUG 2000
1:10,000
VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
HORIZONTAL DATUM: NAD 83
SHEET 31 OF 36
*Brown shoreline originates with chart 12337, 22nd Ed., November 15, 1997
and is for orientation purposes only.*

40° 43' 30"

40° 43' 30"

74° 06' 00"

74° 05' 30"

74° 05' 00"

74° 02' 30"

74° 02' 00"

74° 01' 30"

40° 43' 00"

40° 43' 00"

FE00463
 NEW YORK-NEW JERSEY
 HUDSON RIVER
 MORRIS CANAL BASIN
 27 APRIL 2000 TO 16 AUG 2000
 1:10,000
 VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
 HORIZONTAL DATUM: NAD 83
 SHEET 32 OF 36
*Brown shoreline originates with chart 12335, 40th Ed., Sept. 2003
 and is for orientation purposes only.*

MORRIS CANAL BASIN

40° 42' 30"

40° 42' 30"



40° 42' 00"

40° 42' 00"

74° 02' 30"

74° 02' 00"

74° 01' 30"

73° 58' 30"

73° 58' 00"

73° 57' 30"

40° 51' 00"

40° 51' 00"

FE00463
NEW YORK-NEW JERSEY
HUDSON RIVER
WEEHAWKEN EDGEWATER CHANNEL
24 AUG 2000
1:10,000
VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
HORIZONTAL DATUM: NAD 83
SHEET 33 OF 36
*Brown shoreline originates with chart 12341, 26th Ed., JUNE 2003
and is for orientation purposes only.*

40° 50' 30"

40° 50' 30"



marina under construction

40° 50' 00"

40° 50' 00"

73° 58' 30"

73° 58' 00"

73° 57' 30"

74° 09' 30"

74° 09' 00"

74° 08' 30"

74° 08' 00"

PORT NEWARK

*PORT NEWARK CHANNEL
(BRANCH CHANNEL)*

MARINE TERMINAL

ELIZABETH CHANNEL

PORT NEWARK PIERHEAD CHANNEL

40° 41' 00"

40° 41' 00"

40° 40' 30"

**PORT ELIZABETH
MARINE TERMINAL**

NEWARK BAY MIDDLE REACH

FE00463
NEW JERSEY
NEWARK BAY
PORT ELIZABETH TO PORT NEWARK
14 JUNE 2000 TO 28 AUG 2000
1:10,000
VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
HORIZONTAL DATUM: NAD 83
SHEET 34 OF 36
*Brown shoreline originates with chart 12333, 33rd Ed., Sept. 2003
and is for orientation purposes only.*

40° 40' 00"

40° 40' 00"

SOUTH ELIZABETH CHANNEL

40° 39' 30"

40° 39' 30"

74° 09' 30"

74° 09' 00"

74° 08' 30"

74° 08' 00"

74° 09' 00"

74° 08' 30"

74° 08' 00"

40° 42' 30"

40° 42' 30"

FE00463
 NEW JERSEY
 NEWARK BAY
 PORT NEWARK
 14 JUNE 2000 TO 28 AUG 2000
 1:10,000
 VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
 HORIZONTAL DATUM: NAD 83
 SHEET 35 OF 36
*Brown shoreline originates with chart 12333, 33rd Ed., Sept. 2003
 and is for orientation purposes only.*

40° 42' 00"

PORT NEWARK

INSHORE CHANNEL

*PORT
NEWARK*

CHANNEL

40° 41' 30"

PORT NEWARK

MARINE TERMINAL

74° 09' 00"

74° 08' 30"

74° 00' 30"

74° 00' 00"

73° 59' 30"

40° 42' 00"

40° 42'

EAST RIVER MAIN CHANNEL EAST RIVER DEEPWATER RNG F LT

EAST RIVER MAIN CHANNEL EAST RIVER DEEPWATER RNG R LT

(46)

⊕ skeleton tower

(37)

skeleton tower

⊕ pier ruins

DIMOND REEF

40° 41' 30"

40° 41' 3

BUTTERMILK CHANNEL

FE00463
NEW YORK
EAST RIVER
BUTTERMILK CHANNEL
01 MAY 2000 TO 24 AUG 2000
1:10,000

VERTICAL DATUM: SOUNDINGS IN FEET AT MLLW
HORIZONTAL DATUM: NAD 83
SHEET 36 of 36

*Brown shoreline originates with chart 12335 40th Ed., SEPT, 2003
and is for orientation purposes only.*

40° 41' 00"

40° 41' 0

74° 00' 30"

74° 00' 00"

73° 59' 30"

