

H10622

NOAA FORM 78-35A	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE	
DESCRIPTIVE REPORT	
Type of Survey	HYDROGRAPHIC SURVEY
Field No.	AHP-10-5-95
Registry No.	H-10622
LOCALITY	
State	MARYLAND
General Locality	MAGOTHY RIVER
Sublocality	MOUNTAIN POINT TO SUN SET KNOLL
	19 95
	CHIEF OF PARTY
	L.T. K. N. HARRISON, NOAA
LIBRARY & ARCHIVES	
DATE	MAR 28 1997

DIAGRAM 77-4

Charts

Substitute for NOAA Form 77-28

HYDROGRAPHIC TITLE SHEET

REGISTER NO: H-10622
FIELD NO: AHP-10-5-95

State Maryland

General locality Magothy River

Locality Mountain Point to Sun Set Knoll

Scale 1:10,000 **Date of Survey** 19 June 95 - 8 August 95

Instructions dated 17 April 1995 **Project No.** OPR-E346-AHP

Vessel NOAA Launch Nos. 0517, 1292

Chief of party Kevin N. Harbison, LT, NOAA

Surveyed by Atlantic Hydrographic Party

Soundings taken by echo sounder, hand lead, pole echo sounder and pole

Graphic record scaled by MJM, JLB, GDH, RTB, MA, BAL **

Graphic record checked by MJM, JLB, GDH, RTB, MA, BAL **

Protracted by N/A **Automated plot by** XYNETICS 1201

Verification by Douglas V. Mason, Deborah A. Bland

Soundings in fathoms feet at MLW MLLW meters at MLLW

REMARKS: ** MJM - Mark J. McMann
JLB - Jan L. Budlong
GDH - Glenn D. Hendrix
RTB - Richard T. Brennan, LTJG, NOAA
MA - Michael Annis
BAL - Brian A. Link

* Notes in the Descriptive Report were made in red during office processing

SC MAR 28 1997

Awois/SURF ✓ 3/19/97 SJ

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DESCRIPTIVE REPORT TO COMPANY
HYDROGRAPHIC SURVEY H-10622
FIELD NO. AHP-10-5-95
SCALE: 1:10,000
1995

ATLANTIC HYDROGRAPHIC PARTY
CHIEF OF PARTY: LT Kevin Harbison

A. PROJECT

This survey was conducted in accordance with Hydrographic Project Instructions OPR-E346-AHP, Northern Chesapeake Bay - Baltimore Harbor, Maryland, dated April 17, 1995. This survey is designated as Sheet "P" on the sheet layout dated March 21, 1995.

The purpose of this project is to provide contemporary hydrography for updating charts and responds to requests from the Maryland Port Administration, Association of Maryland Pilots, U.S. Army Corps of Engineers, and the U.S. Coast Guard. The area was last surveyed between 1975 and 1976 by the U. S. Coast and Geodetic Survey.

B. AREA SURVEYED

The area surveyed for H-10622 covers the Magothy River from Mountain Pt to upriver of ~~Summit~~ Knoll inshore to the 2-meter depth curve.
Sun Set

North - 39°06'50"N
South - 39°02'45"N
East - 076°25'00"W
West - 076°32'40"W

This survey was conducted from June 19, 1995 (DN 170) to August 8, 1995 (DN 220).

C. SURVEY VESSELS

Vessel 0517, a 21-foot MonArk, was the vessel used to collect all sounding data. Vessel 1292, a 21-foot MonArk, was the vessel used to collect all detached positions, bottom samples, and chain drag data. There were no unusual vessel configurations nor problems encountered.

D. AUTOMATED DATA ACQUISITION AND PROCESSING

The Hydrographic Data Acquisition and Processing System (HDAPS) was used to process all hydrographic data for this survey. PC-DAS version 4.03 was used for on-line data acquisition. A listing of HDAPS programs used for data processing and their corresponding version numbers is appended to this report.

The following non-HDAPS computer programs were used:

VELOCITY (IBM PC)	Ver. 2.0 (12/18/92)
NADCON (IBM PC)	Ver. 1.01
WORDPERFECT (IBM PC)	Ver. 6.1

E. SONAR EQUIPMENT

Not Applicable.

F. SOUNDING EQUIPMENT

Innerspace model 448 depth sounders, serial number 241 on launch 0517, and serial number 188 on launch 1292, were used to collect all soundings.

Standard lead lines calibrated in meters, serial number 0517 and 1292, were used during this survey for comparison readings with the echo sounder. A 5-meter wooden sounding pole, marked according to Hydrographic Survey Guideline (HSG) No. 69, was used to obtain pole soundings.

G. CORRECTIONS TO SOUNDINGS

Soundings were recorded using the Innerspace model 448 depth sounder. It was adjusted for an assumed speed of sound through water of 1500 meters/second. Changes to the gain and/or chart speed were noted on the echogram. Digitized soundings agreed with the analog trace within 0.1 meter. Necessary corrections were made while scanning the echogram.

Corrections for the speed of sound through water were computed from data obtained with Sea-Bird Electronics, Inc., SEACAT electronic profiler, serial number 192276-287. Data quality assurance tests were performed in accordance with Field Procedures Manual (FPM) 2.1.3.2. Program VELOCITY, version 2.0, was used to compute speed of sound through water corrections. Copies of the velocity tables and cast data are in the "Survey Separates." **Data filed with original field records.*

Correctors for the velocity of sound through water were determined from the casts listed below:

Velocity Table No.	Cast No.	Deepest Depth (m)	Applicable DN	Position	Cast Day
1	1	10.4/13.5	177-185	39°03'15"N 076°26'00"W	179
2	2	11.6/15.1	186-206	39°03'30"N 076°26'20"W	191

3

3

6.1/8.0

207-220

39°03'20"N 221
076°26'00"W

Correctors were applied to the sounding data using the HDAPS program REAPPLY prior to plotting.

Weather permitting, lead line comparisons were conducted each day in accordance with FPM 2.1.3.1. No instrument error was detected from these comparisons. The lead line comparison form is in the "Survey Separates." *

A static draft of 0.3 meter was applied to the on-line data. The draft was measured by subtracting the difference from a punch mark on the side of Launch 0517 and Launch 1292, 0.6 meter above the transducer, to the water surface.

Settlement and squat measurements were performed on Dec. 20, 1994 (DN 346), at Clear Lake, Texas, using Zeiss level S/N 08754 for launch 0517, and June 14, 1995 (DN 165) in Magothy River, MD, using Zeiss level S/N 08754 for launch 1292. Settlement and squat correctors and the static draft corrector were applied on-line through the offset table. Copies of the field data, the graphs of the settlement and squat correctors vs. speed in m/sec., and the offset table are included in the "Survey Separates." *

The Baltimore, Maryland, tide station number 857-4680, served as control for datum determination. This station is also the reference station for the predicted tides which were applied to the final sounding plot. This survey required one tide zone, a -0-hour 14-minute high water and -0-hour 09 minute low water time correction was applied to the predicted tides. Height corrections from the Baltimore gage were x0.71 in the Magothy River.

Approved tides were requested from the Sea and Lake Levels Branch, N/OES231, in a letter dated Sept. 25, 1995. A copy of the letter is appended to this report. *Approved tides and zonings have been applied during office processing.

H. CONTROL STATIONS *See also, Evaluation Report*

The horizontal control datum for this project is the North American Datum of 1983. One station, the USCG Differential GPS (DGPS) Beacon at Cape Henlopen, was used to control this survey. The position for the beacon is shown on the "Control Station List" appended to this report.

I. HYDROGRAPHIC POSITION CONTROL

DGPS was used as the method of positioning for all hydrographic

*Data filed with original field records.

data on this survey. The USCG Differential GPS beacon at Cape Henlopen, Delaware was used as the reference station in conjunction with beacon receiver serial number X-1086 and antenna serial number MBA-M1039 on launch 0517. An Ashtech sensor, serial number 700417A1065 was used as the remote station on vessel 0517. Beacon receiver serial number X-1085, antenna serial number MBA-M1042, and Ashtech sensor serial number 700417B1207 were used on launch 1292. This equipment met the accuracy standards for this 1:10,000 scale survey.

Performance checks were conducted daily by resting the launch alongside station CAL 1 1995. The raw record and the abstract of these checks are included in the "Survey Separates." The calibration point was established by measuring a single GPS baseline, between a third-order, class I station and the calibration point. The computations for CAL 1 1995, are included in the "Survey Separates."*

Occasionally, a good position misplotted on the raw track plot. This problem was attributed to good DGPS data following a period of questionable DGPS data. These positions were reviewed, then edited or rejected as necessary.

J. SHORELINE *See Section J. of the Evaluation Report*

Shoreline shown on the final sounding plot was transferred by hand from the enlargement of chart 12282 29th edition, Oct. 29, 1994. This chart was enlarged from 1:25,000 scale to 1:10,000. No shoreline verification was required on this survey.

A complete list of all detached positions by day, is included in the accordion file. It lists the position of each feature and the AWOIS item number when applicable.*

K. CROSSLINES

A total of 12.0 nautical miles of crosslines were run, representing 10.0% of the main scheme hydrography. Crossline soundings agree to within 0.3 meter of the main scheme soundings.

L. JUNCTIONS *See Section L. of the Evaluation Report*

This survey does not junction with any contemporary surveys.

M. COMPARISON WITH PRIOR SURVEYS *See Section M. of the Evaluation Report*

The prior survey comparison will be performed by AHS. The prior survey covering this area is H-5403, 1:10,000, 1933-1934. AWOIS item number 9401 originated from the prior survey.

The hydrographer recommends that data from the present survey be

used to supersede that of H-5403 within their common areas.

N. ITEM INVESTIGATION REPORTS *See Section H. of the Evaluation Report*

Sixteen AWOIS items were assigned to this survey. Item investigation reports are appended to this report.

O. COMPARISON WITH THE CHART *See Section O. of the Evaluation Report*

Comparisons were made with chart 12282, 29th Edition, October 29, 1994. Survey soundings compare very well with those charted, generally being within 0.3 meters.

There was one danger to navigation identified on this survey. On Aug. 8 1995, (DN 220) a diver investigation revealed a small pile of concrete rubble with a least depth of ^{0.9 (3ft)}~~1.4~~ meters in 2.5 meters of water at position number 6052, lat. 39°04'23.45"N, lon. 076°30'59.60"W. *It is recommended that a 3ft Obstrn be charted in the above present survey location.*

Discrepancies with the chart are as follows:

Charted Depth	Location	Survey Least Depth	Charting Recommendation
12	39°04'10"N 076°27'05"W	12.2 ⁸ ft 3.7 ₉ m	Remain as charted Do not concur, Chart present Survey soundings
10	39°04'20"N 076°27'30"W	10.2 ⁵ ft 3.1 ₂ m	Remain as charted Do not concur, Chart present Survey soundings
8	39°05'05"N 076°27'10"W	8.2 ^{7.2} ft 2.5 ₈ m	Remain as charted Do not concur, Chart present Survey soundings
5	39°05'35"N 076°27'10"W	4.9 ^{5.3} ft 1.5 ₆ m	Remain as charted Do not concur, Chart present Survey soundings
12	39°04'15"N 076°28'00"W	10.5 ^{11.2} ft 3.2 ₄ m	Chart current soundings Concur
10	39°04'20"N 076°28'10"W	10.8 ^{11.5} ft 3.3 ₅ m	Remain as charted Do not concur, Chart present Survey soundings
3	39°05'02"N 076°27'50"W	5.9 ^{2.6} ft 1.8 ₀ m	Chart current soundings Concur
11	39°04'20"N 076°29'50"W	12.8 ft 3.9 m	Remain as charted Do not concur Chart present survey soundings

The hydrographer recommends sounding data from this survey be used to update the chart. *concur*

P. ADEQUACY OF SURVEY *See Section P. of the Evaluation Report*

This survey is complete and adequate to supersede all prior surveys within the common area.

Q. AIDS TO NAVIGATION *See Section Q. of the Evaluation Report*

There are forty-eight aids to navigation in the survey area. Sixteen are daybeacons, eleven are lights, three are privately maintained lights, six are privately maintained buoys, two are privately maintained lighted buoys, and ten are privately maintained daybeacons. Three of the aids have a published position in the USCG Light List, Volume IV, Gulf of Mexico, 1995.

Detached positions were taken on all aids to navigation. The comparison of the surveyed position with the charted location was:

Magothy River Entrance Lt 2 (Light List #20095)
Light List Published Position - 39°03.4'N, 076°25.8'W
Surveyed Position (No. 5153) - 39°03'21.93"N, 076°25'47.10"W
Surveyed position agrees with the charted position

Magothy River Lt 3 (Light List #20100)
Light List Published Position - None
Surveyed Position (No. 5154) - 39°03'18.86"N, 076°25'59.48"W
Surveyed position agrees with the charted position

Magothy River Entrance Daybeacon 4 (Light List #20105)
Light List Published Position - None
Surveyed Position (No. 5155) - 39°03'24.12"N, 076°25'58.41"W
Surveyed position agrees with the charted position

Magothy River Daybeacon 5 (Light List #20110)
Light List Published Position - None
Surveyed Position (No. 5156) - 39°03'22.86"N, 076°26'10.39"W
Surveyed position agrees with the charted position

Deep Creek Daybeacon 1 (Light List #20160)
Light List Published Position - None
Surveyed Position (No. 5157) - 39°03'11.04"N, 076°26'58.54"W
Surveyed position agrees with the charted position

Deep Creek Lt 3 (Light List #20170)
Light List Published Position - None
Surveyed Position (No. 5159) - 39°03'06.14"N, 076°27'15.51"W
Surveyed position agrees with charted position

Deep Creek Daybeacon 4 (Light List #20175)
Light List Published Position - None
Surveyed Position (No. 5160) - 39°03'04.93"N, 076°27'20.28"W

Surveyed position agrees with charted position

Magothy River Daybeacon 7 (Light List #20180)

Light List Published Position - None

Surveyed Position (No. 5162) - 39°03'46.03"W, 076°27'33.96"W

Surveyed position agrees with charted position

Sillery Bay Lt 1 (Light List #20115)

Light List Published Position - None

Surveyed Position (No. 5163) - 39°04'47.54"N, 076°27'18.88"W

Surveyed position agrees with charted position

Grays Creek Entrance Daybeacon 2 (Light List #20135)
Light List Published Position - 39°05.6'N, 076°25.7'W
Surveyed Position (No. 5164) - 39°05'11.94"N, 076°27'38.30"W
Surveyed position agrees with charted position

Sillery Bay Lt 3 (Light List #20120)
Light List Published Position - None
Surveyed Position (No. 5169) - 39°05'25.24"N, 076°26'39.15"W
Surveyed Position agrees with charted position

Sillery Bay Lt 4 (Light List #20125)
Light List Published Position - None
Surveyed Position (No. 5170) - 39°05'28.76"N, 076°26'31.38"W
Surveyed position agrees with charted position

Broad Creek Entrance Daybeacon 2 (Light List #20190)
Light List Published Position - 39°04.6'N, 076°28.7'W
Surveyed Position (No. 5175) - 39°04'38.04"N, 076°28'38.48"W
Surveyed position is 85m NW of charted position *Concur*

Broad Creek Entrance Daybeacon 3 (Light List #20195)
Light List Published Position - None
Surveyed Position (No. 5176) - 39°04'34.72"N, 076°28'48.41"W
Surveyed position agrees with charted position

Magothy River Lt 9 (Light List #20185)
Light List Published Position - None
Surveyed Position (No. 5177) - 39°04'08.88"N, 076°28'48.06"W
Surveyed position agrees with charted position

Magothy River Lt 10 (Light List #20200)
Light List Published Position - None
Surveyed Position (No. 5185) - 39°04'18.43"N, 076°29'37.19"W
Surveyed position agrees with charted position

Magothy River Daybeacon 11 (Light List #20245)
Light List Published Position - None
Surveyed Position (5191) - 39°04'23.74"N, 076°30'03.36"W
Surveyed Position agrees with charted position

Magothy River Lt 12 (Light List #20250)
Light List Published Position - None
Surveyed Position (5192) - 39°04'36.07"N, 076°30'12.60"W
Surveyed Position is 90 m NE of charted position *Concur*

Magothy River Lt 13 (Light List #20270)
Light List Published Position - 39°04.9'N, 076°31.0'W
Surveyed Position (5193) - 39°04'54.60"N, 076°30'57.94"W
Surveyed Position agrees with charted position

Magothy River Daybeacon 14 (Light List #20275)

Light List Published Position - None
Surveyed Position (5194) - 39°04'59.05"N, 076°31'10.13"W
Surveyed Position is 60 m SE of charted position *Concur*

Magothy River Preferred Channel Daybeacon MR (Light List #20280)
Light List Published Position - 39°05.2'N, 076°31.5'W
Surveyed Position (5195) - 39°05'09.93"N, 076°31'29.62"W
Surveyed Position is 70 m S of charted position *Concur*

Cattail Creek Daybeacon 2 (Light List #20285)
Light List Published Position - None
Surveyed Position (5196) - 39°05'10.02"N, 076°31'32.51"W
Surveyed Position agrees with charted position

Magothy River Daybeacon 15 (Light List #20290)
Light List Published Position - None
Surveyed Position (5197) - 39°05'11.60"N, 076°31'30.33"W
Surveyed Position is 90 m S of charted position *Concur*

Magothy River Daybeacon 16 (Light List #20295)
Light List Published Position - None
Surveyed Position (5198) - 39°05'28.82"N, 076°31'35.74"W
Surveyed Position is 60 m S of charted position *Concur*

Cypress Creek Daybeacon 1 (Light List #20255)
Light List Published Position - None
Surveyed Position (5201) - 39°04'26.10"N, 076°31'16.62"W
Surveyed Position agrees with charted position

Cypress Creek Daybeacon 3 (Light List #20260)
Light List Published Position - None
Surveyed Position (5202) - 39°04'25.56"N, 076°31'20.66"W
Surveyed Position agrees with charted position

The aids serve their intended purpose, though should be re-charted using current surveyed positions.

The privately maintained aids to navigation were located by detached position and are recommended for charting as follows:

Pos. No.	Latitude (N)	Longitude (W)	Description
5161	39°03'40.09"	076°27'22.11"	G SPAR BUOY <i>Concur</i>
5166	39°05'17.35"	076°27'49.87"	Grays Creek daybeacon 1 <i>Already charted</i>
5167	39°05'19.29"	076°27'52.09"	Grays Creek daybeacon 4 <i>Concur</i>
5168	39°05'18.78"	076°27'52.58"	Grays Creek daybeacon 3 <i>Already charted</i>
5171	39°05'24.40"	076°25'41.82"	Gibson Is. Inner Hbr Lt buoy 2 <i>Already charted</i>
5172	39°05'14.08"	076°25'38.70"	Gibson Is. Inner Hbr buoy 3 <i>Already charted</i>
5173	39°05'11.12"	076°25'44.51"	Gibson Is. Inner Hbr Lt buoy 4 <i>Already charted</i>
5178	39°03'42.27"	076°29'20.19"	Cool Spring Cove daybeacon 1 <i>Already charted</i>

5179	39°03'39.92"	076°29'21.42"	Cool Spring Cove daybeacon 2 <i>already charted</i>
5180	39°03'37.42'	076°29'21.18"	Forked Creek daybeacon 4 <i>already charted</i>
5181	39°03'37.44"	076°29'20.46"	G Buoy 3 <i>concur</i>
5182	39°03'40.42"	076°29'20.97"	G Buoy 1A <i>concur</i>
5183	39°03'38.69"	076°29'22.73"	Forked Creek daybeacon 1 <i>already charted</i>
5184	39°03'39.40"	076°29'23.48"	Forked Creek daybeacon 2 <i>already charted</i>
5186	39°03'59.58"	076°29'46.93"	Spriggs Pond G Buoy 1 <i>concur</i>
5187	39°03'58.98"	076°29'48.48"	Spriggs Pond R Buoy 2 <i>concur</i>
5188	39°04'51.80"	076°29'46.83"	Blackhole Creek Light 1 <i>concur</i>
5189	39°04'53.06"	076°29'46.82"	Blackhole Creek daybeacon 2 <i>already charted</i>
5190	39°05'01.44"	076°29'46.58"	Blackhole Creek daybeacon 3 <i>already charted</i>
5199	39°05'06.99"	076°31'30.73"	Light B <i>already charted</i>
5200	39°05'06.27"	076°31'27.25"	Light A <i>already charted</i>

There were no pipeline, cable crossings, overhead cables or ferry routes in the survey area.

R. STATISTICS

Description	Quantity
Total Number of Positions	1846
Total Lineal Nautical Miles of Hydrography	116.1
Square Nautical Miles of Hydrography	6.0
Days of Production	29
Detached Positions	59
Bottom Samples	44
Tide Stations	1
Velocity Casts	3

S. MISCELLANEOUS

See Section S. of the Evaluation Report

No anomalous currents or tides were observed during this survey.

Forty-four bottom samples were taken and compared to the charted bottom characteristics. All surveyed characteristics agreed with those charted. Bottom samples were submitted to the Smithsonian Institution as required in the project instructions. Bottom sample positions are plotted on the overlay and are listed on the Oceanographic Log Sheet-M, NOAA Form 75-44, which is in the "Survey Separates." *

The "assign fix" function of the program QUICK EDIT, was used to assign position numbers to the beginning or ending of a line as needed.

T. RECOMMENDATIONS

See Section T. of the Evaluation Report

No additional field work was identified after field office processing was completed. Specific recommendations are made on the Item Investigation Reports appended, and in sections J., O.,

and Q. of this report.

U. REFERRAL TO REPORTS

Title

Coast Pilot
for OPR-E346-AHP

Transmittal Information

Atlantic Hydrographic Branch
N/CG244, Norfolk, Va 23510

User Evaluation
for OPR-E346-AHP

Atlantic Hydrographic Branch
N/CG244, Norfolk, Va 23510

Submitted by:



Mark J. McMann
Launch Hydrographer in Charge

AWOIS NO: 9383

Item Description: obstruction

Source: LNM39/90

AWOIS Position: Lat - 39E03'43.39"N, Lon - 076E27'29.85"W

Required Investigation: BD, DI **Search Radius-** 200m

Charts Affected: 12282

INVESTIGATION

Date(s)/DN(s): June 26, 1995/177

Position Numbers: 5204-5217 **Launch Number:** 1292

Investigation Used: BD

Position Determined By: DGPS

Investigation Summary: A chain drag was performed over the area and a hang~~ed~~ occurred during the drag. A detached position, (pos. 5218), was taken at the hang site. A dive investigation was not performed because of engine trouble with the boat. A least depth was not determined.

CHARTING RECOMMENDATION

The hydrographer recommends that the charted submerged obstruction be removed from the present charted position and be recharted at the recommended position. *Concur,*

Recommended Position: 39E03'40.402"N, 076E27'34.910"W

Recommended Least Depth: N/A

COMPILATION NOTES

Chart

Applied As

Chart a 2 obstnat recommended position. Remove the
Charted obst r Rep note and danger curve from the
Chart.

AWOIS NO: 9385

Item Description: OBSTRUCTION,

Source: LNM20/69

AWOIS Position: Lat - 39E05'30.39"N, Lon - 076E26'30.85"W

Required Investigation: BD, DI **Search Radius-** 100m

Charts Affected: 12282

INVESTIGATION

Date(s)/DN(s): June 27, 1995/178

Position Numbers: 5219-5262

Launch Number: 1292

Investigation Used: BD

Position Determined By: DGPS

Investigation Summary: A chain drag was performed over the required area at 10 meter line spacing. A hang occurred during chain drag. A detached position, (pos. 5263), was taken at the hang site. A dive investigation was performed on day 220, visibility was very poor and nothing was found.

CHARTING RECOMMENDATION

The hydrographer recommends that the present obstruction be ~~be~~ removed from the chart and a submerged obstruction be charted at the recommended position. A least depth was not determined. *Concur*

Recommended Position: 39E05'30.612"N, 076E26'30.628"W

Recommended Least Depth: N/A

COMPILATION NOTES

Chart

Applied As

Chart an 11 obstn at the recommended position. Delete the charted obstn rep.

AWOIS NO: 9386

Item Description: wreck

Source: LNM40/69

AWOIS Position: Lat - 39E04'23.39"N, Lon -076E29'43.86"W

Required Investigation: BD, DI Search Radius- 200m

Charts Affected: 12282

INVESTIGATION

Date(s)/DN(s): June 21, 1995/172

Position Numbers: 5040-5098 Launch Number: 1292

Investigation Used: BD

Position Determined By: DGPS

Investigation Summary: A chain drag was performed over the required area at 10 meter line spacing, nothing was found.

CHARTING RECOMMENDATION

The hydrographer recommends that the item be removed from the chart. *CUNCUR*

Recommended Position:

Recommended Least Depth:

COMPILATION NOTES

Chart

Applied As

Delete the charted ^{sunken "PA"} *1wk* from the chart and update the area with present survey soundings.

AWOIS NO: 9388

Item Description: OBSTRUCTION

Source: unknown

AWOIS Position: Lat - 39E05'41.00"N, Lon -076E26'59.00"W

Required Investigation: SD, BD, DI Search Radius- 100m

Charts Affected: 12282

INVESTIGATION

Date(s)/DN(s): June 26, 1995/177

Position Numbers: 5203

Launch Number: 1292

Investigation Used: VS

Position Determined By: DGPS

Investigation Summary: A visual search was performed over the area and a rock was located 160 meters west-northwest of the item. A detached position was taken on the rock.

CHARTING RECOMMENDATION

The hydrographer recommends that the charted obstruction be removed from the chart and a rock be charted at the recommended position. Concur.

Recommended Position: 39E05'42.620"N, 076E27'06.266"W

Recommended Least Depth: ¹⁶.5 meter above surface, corrected for predicted tides.
actual

COMPILATION NOTES

Chart

Applied As

Chart a * at the recommended position. Delete the charted obstn from the charts

AWOIS NO: 9390

Item Description: sunken rowboat

Source: CL485/63

AWOIS Position: Lat - 39E03'17.39"N, Lon -076E27'01.85"W

Required Investigation: SD, BD, DI **Search Radius-** 100m

Charts Affected: 12282

INVESTIGATION

Date(s)/DN(s): July 24, 1995/205

Position Numbers: 5503-5544

Launch Number: 1292

Investigation Used: development

Position Determined By: DGPS

Investigation Summary: The area around the item is saturated with crab pots and buoys. A chain drag was not attempted. A development was run over the required area at 10 meter line spacing, nothing was found. There was very little local information concerning the item.

CHARTING RECOMMENDATION

The hydrographer recommends that the item remain as charted.

Do NOT CONCUR

Recommended Position: *Considering the age of the original report and the AWOIS description of the item, a sunken boat in 2ft of water covered 1ft at MLLW. This item is considered disproved.*

Recommended Least Depth:

COMPILATION NOTES

Chart

Applied As

Remove the charted sunken wreck symbol and update the area with soundings from the present survey.

AWOIS NO: 9391

Item Description: sunken wreck & visible Piles

Source: CL133/64

AWOIS Position: Lat - 39E03'14.00"N, Lon -076E25'59.00"W

Required Investigation: SD, BD, DI **Search Radius-** 100m

Charts Affected: 12282

INVESTIGATION

Date(s)/DN(s): July 19, 1995/200

Position Numbers: 5364-5404

Launch Number: 1292

Investigation Used: development

Position Determined By: DGPS

Investigation Summary: The area around the item is saturated with crab pots and buoys. A chain drag was not attempted. A development was run over the required area at 10 meter line spacing, nothing was found. There was very little local information concerning the item.

CHARTING RECOMMENDATION

The hydrographer recommends that the item remain as charted. Do not concur. The development did not find the wreck or visible piles, but a 1ft obstn was found in Lat. 39/03/12.58 N, Lon. 76/25/58.10 W.

Recommended Position:

Recommended Least Depth:

COMPILATION NOTES

Chart

Applied As

Remove the charted wreck and visible piles, and chart an obstruction with a 1ft depth in Lat. 39/03/12.58N, Lon 76/25/58.10 W. fathometer

AWOIS NO: 9392

Item Description: wreck

Source: CL1312/65

AWOIS Position: Lat - 39E04'16.39"N, Lon -076E25'12.85"W

Required Investigation: SD, BD, DI Search Radius- 200

Charts Affected: 12282

INVESTIGATION

Date(s)/DN(s): July 18, 1995/199

Position Numbers: 5217-5363

Launch Number: 1292

Investigation Used: development

Position Determined By: DGPS

Investigation Summary: The area around the item is saturated with crab pots and buoys. A chain drag was not attempted. A development was run over the required area at 10 meter line spacing, nothing was found. There was very little local information concerning the item..

CHARTING RECOMMENDATION

The hydrographer recommends that the item remain as charted. Do not concur. The development did not find the wreck, but an obstruction with a 1ft depth was found in Lat. 39/04/15.63N, Lon. 76/25/12.55 W.
Recommended Position:

Recommended Least Depth:

COMPILATION NOTES

Chart

Applied As

Remove the charted sunken wreck "BA" and chart and obstruction with a 1ft fathometer depth in Lat. 39/04/15.63N, Lon. 76/25/58.10 W

AWOIS NO: 9393

Item Description: OBSTRUCTION, (shoaling reported)

Source: unknown

AWOIS Position: Lat - 39E03'25.39"N, Lon -076E25'48.85"W

Required Investigation: ES **Search Radius-** 100m

Charts Affected: 12282

INVESTIGATION

Date(s)/DN(s):

Position Numbers:

Launch Number: 0517

Investigation Used:

Position Determined By: DGPS

Investigation Summary:

CHARTING RECOMMENDATION

A fathometer development was conducted in the area, revealing depths of 5 to 7 feet with no indication of shoaling,

Recommended Position:

Recommended Least Depth:

COMPILATION NOTES

Chart

Applied As

It is recommended that the charted note shd be deleted, and that the area be charted as shown on the present survey

(Not charted on 12278-64th Ed)

AWOIS NO: 9394

Item Description: OBSTRUCTION, (shoaling reported 1976)

Source: unknown

AWOIS Position: Lat - 39E03'25.39"N, Lon -076E26'08.85"W

Required Investigation: ES

Search Radius- 100m

Charts Affected: 12282

INVESTIGATION

Date(s)/DN(s):

Position Numbers:

Launch Number: 0517

Investigation Used:

Position Determined By: DGPS

Investigation Summary:

CHARTING RECOMMENDATION

A fathometer development was conducted in the area, revealing depths of 18 to 31 feet with no indication of shoaling.

Recommended Position:

Recommended Least Depth:

COMPILATION NOTES

Chart

Applied As

It is recommended that the charted note sh1 rep 1976 be deleted, and that the area be charted as shown on the present survey. (Not on chart 12278-64th ed)

AWOIS NO: 9395

Item Description: SOUNDING

Source: CL2018/77

AWOIS Position: Lat - 39E⁹³04'57.39"N, Lon -076E29'49.86"W

Required Investigation: ES Search Radius- 100m

Charts Affected: 12282

INVESTIGATION

Date(s)/DN(s):

Position Numbers: Launch Number: 0517

Investigation Used:

Position Determined By: DGPS

Investigation Summary:

CHARTING RECOMMENDATION

A fathometer development was conducted in the area. Present survey depths were 1 to 7 feet in the area.

Recommended Position:

Recommended Least Depth:

COMPILATION NOTES

Chart

Applied As

It is recommended that the charted 8 1/2 ft rep note be deleted from the chart and that soundings be put on the chart to reflect present survey sound findings.

AWOIS NO: 9396

Item Description: wreck

Source: CL1696/72

AWOIS Position: Lat - 39E05'55.00"N, Lon -076E25'14.00"W

Required Investigation: SD, BD, DI **Search radius-** 200m

Charts Affected: 12282

INVESTIGATION

Date(s)/DN(s): July 20, 1995/201

Position Numbers: 5407-5496 **Launch Number:** 1292

Investigation Used: development

Position Determined By: DGPS

Investigation Summary: The area around the item is saturated with crab pots and buoys. A chain drag was not attempted. A development was run over the required area at 10 meter line spacing, nothing was found. There was very little local information concerning the item.

CHARTING RECOMMENDATION

The hydrographer recommends that the item remain as charted.

Concur

Recommended Position:

Recommended Least Depth:

COMPILATION NOTES

Chart

Applied As

AWOIS NO: 9397

Item Description: sounding

Source: CL26/79

AWOIS Position: Lat - 39E03'35.39"N, Lon -076E27'26.85"W

Required Investigation: ES Search Radius- 100m

Charts Affected: 12282

INVESTIGATION

Date(s)/DN(s):

Position Numbers: Launch Number: 0517

Investigation Used:

Position Determined By: DGPS

Investigation Summary:

CHARTING RECOMMENDATION

The area was developed with a fathometer, Present survey depths are 2 to 4 feet in the area.

Recommended Position:

Recommended Least Depth:

COMPILATION NOTES

Chart

Applied As

It is recommended that the charted 1ft rep 1978 note be deleted from the chart and ~~sona~~ the area be charted to reflect present survey findings.
(Not charted on 12278-64th Ed)

AWOIS NO: 9398

Item Description: wreck

Source: CL198/85

AWOIS Position: Lat - 39E05'11.00"N, Lon -076E28'59.00"W

Required Investigation: SD, VS,BD, DI Search Radius- 100m

Charts Affected: 12282

INVESTIGATION

Date(s)/DN(s): July 20, 1995/201

Position Numbers: 5406

Launch Number: 1292

Investigation Used: VS

Position Determined By: DGPS

Investigation Summary: A visual search was performed over the area, there was no wreck visible. A visual search was performed for any wreckage on the bottom from near shore out to 1 meter of water with fair visibility of the bottom. The only wreckage found was a engine block. A detached position was taken on the engine block.

CHARTING RECOMMENDATION

The hydrographer recommends that the visual wreck be removed from the chart and a wreck awash be charted at the recommended position. *Do not concur*

Recommended Position: 39E05'12.571"N, 076E29'00.020"W

Recommended Least Depth: ^{-0.2 m (-1ft)} ~~awash~~, corrected for ^{actual} ~~predicted~~ tides.

COMPILATION NOTES

Chart

Applied As

*Delete the charted wreck and chart an obstn
Symbol and the note obstn at the recommended
position.*

(Wreck not shown on Chart 12278)

AWOIS NO: 9401

Item Description: wrecks

Source: H-5403/33-34

AWOIS Position: Lat - 39E04'03.00"N, Lon -076E26'18.00"W

Required Investigation: SD, BD, DI **Search Radius-** 200m

Charts Affected: 12282

INVESTIGATION

Date(s)/DN(s): June 27, 1995/178
July 18, 1995/199

Position Numbers: 5265-5267 **Launch Number:** 1292
5270

Investigation Used: ES

Position Determined By: DGPS

Investigation Summary: The wrecks were located using the echosounder and detached positions were taken on the wrecks.

CHARTING RECOMMENDATION

The hydrographer recommends that the present submerged wrecks be removed from the chart and that submerged wrecks be charted at the recommended positions. Positions 5266 and 5267 were taken on the same wreck. *Cmc UR*

Recommended Position: pos. 5265- 39E04'04.130"N, 076E26'20.559"W
Pos. 5266- 39E04'03.356"N, 076E26'23.138"W
pos. 5267- 39E04'03.070"N, 076E26'22.676"W
pos. 5270- 39E04'03.454"N, 076E26'19.881"W

Recommended Least Depth: pos. 5265- 1.5⁴m below surface (4.6 ft)
Pos. 5266- 1.4³m below surface (4.3 ft)
Pos. 5267- 1.4⁶m below surface (5.2 ft)
Pos. 5270- 0.9⁴m below surface (2.3 ft)

Least depths corrected for predicted tides.

COMPILATION NOTES

Chart Applied As
See Section m.a.l. of the Evaluation Report.

AWOIS NO: 9402

Item Description: wreck

Source: LNM26/87

AWOIS Position: Lat - 39E04'52.00"N, Lon -076E30'56.00"W

Required Investigation: SD, BD, DI Search Radius- 100m

Charts Affected: 12282

INVESTIGATION

Date(s)/DN(s): June 19, 1995/170

Position Numbers: 5000-5039

Launch Number: 1292

Investigation Used: BD

Position Determined By: DGPS

Investigation Summary: A chain drag was performed over the required area at 10 meter line spacing, nothing was found. *Cmcur*

CHARTING RECOMMENDATION

The hydrographer recommends that the item be removed from the chart. *Cmcur*

Recommended Position:

Recommended Least Depth:

COMPILATION NOTES

Chart

Applied As

Delete the charted wreck and the lighted wreck buoy associated with this wreck. The buoy was not on station when this investigation was conducted. Chart the area as shown on the present survey.

AWOIS NO: 9405

Item Description: obstruction

Source: LNM10/76

AWOIS Position: Lat - 39E03'15.39"N, Lon -076E26'12.85"W

Required Investigation: SD, BD, DI **Search Radius-** 200m

Charts Affected: 12282

INVESTIGATION

Date(s)/DN(s): July 25,1995/206

Position Numbers: 5545-5547

Launch Number: 1292

Investigation Used: BD

Position Determined By: DGPS

Investigation Summary: A chain drag was being performed over the area when a hang occurred. A detached position, (pos. 5548), was taken at the hang site. A dive investigation was not performed because of engine trouble with the boat. A least depth was not determined. *CONCUR*

CHARTING RECOMMENDATION

The hydrographer recommends that the present submerged obstruction be removed from the chart and a submerged obstruction be charted at the recommended position.

Recommended Position: 39E03'15.145"N, 076E26'18.968"W

Recommended Least Depth: N/A

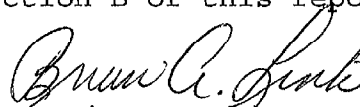
COMPILATION NOTES

Chart *Applied As*
Chart a 1 obstn in the recommended position,
Delete the charted obstn, rep from the chart.

APPROVAL SHEET
BASIC HYDROGRAPHIC SURVEY
OPR-E346-AHP
AHP-10-5-95
H-10622
1995

This basic hydrographic survey was conducted in accordance with the project instructions for OPR-E346-AHP, the Hydrographic Manual, the Hydrographic Survey Guidelines, and the Field Procedures Manual. All reports were reviewed and approved by LT Kevin N. Harbison, NOAA, Chief of Party. All supporting data and records were approved through Team Processing with the Atlantic Hydrographic Branch in Norfolk, Virginia.

This survey is a complete basic hydrographic survey for the area described in Section B of this report.


for Kevin N. Harbison, NOAA
Lieutenant, NOAA
Chief, Atlantic Hydrographic Party



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SERVICE
Office of Ocean and Earth Sciences
Silver Spring, Maryland 20910

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: May 24, 1996

HYDROGRAPHIC SECTION: Atlantic

HYDROGRAPHIC PROJECT: OPR E346-AHP

HYDROGRAPHIC SHEET: H-10622

LOCALITY: Magothy River, Mountain Point to Summit Knoll, Maryland

TIME PERIOD: June 19 - August 8, 1995

TIDE STATION USED: 857-5145 Cockey Creek, Magothy River, Md.
Lat. 39° 05.2'N Lon. 76° 31.5'W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.06 ft.

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.2 ft.

REMARKS: RECOMMENDED ZONING

1. MAPINFO polygon: #CB45

-76.425846	39.028453
-76.504021	39.053385
-76.501844	39.099012
-76.44797	39.098589
-76.437902	39.089717
-76.440351	39.078733
-76.421903	39.081858
-76.425846	39.028453

Apply a -6 minute time correction, and heights are direct using Cockey Creek, Md. (857-5145).



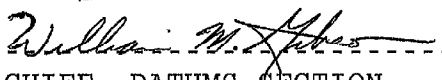
page 2 of 2 for H-10622

2. MAPINFO polygon: #CB46

-76.504021	39.053385
-76.539626	39.062675
-76.55608	39.115046
-76.532715	39.119133
-76.501844	39.099012
-76.504021	39.053385

Times and heights are direct on Cockey Creek, Md. (857-5145).

Notes: 1. Times are tabulated in Greenwich Mean Time.
2. Data for Cockey Creek, Md. (857-5145) are temporarily stored in file #657-5145.



CHIEF, DATUMS SECTION

GEOGRAPHIC NAMES

Name on Survey

Page 1 of 3

A ON CHART NO. 12282, 12278, 12273
B ON PREVIOUS SURVEY NO.
C ON U.S. QUADRANGLE MAPS
D FROM LOCAL INFORMATION
E ON LOCAL MAPS
F P.O. GUIDE OR MAP
G RAND McNALLY ATLAS
H U.S. LIGHT LIST
K

Name on Survey	A	B	C	D	E	F	G	H	K
ADAMS POINT	X		X						1
ARUNDEL BEACH (pp1)	X		X						2
BEACHWOOD FOREST (pp1)	X		X						3
BLACKHOLE CREEK	X		X						4
BOUNDARY STONE POINT	X		X						5
BROAD CREEK	X		X						6
CAPE SAINT CLAIRE (pp1)	X		X						7
CATTAIL CREEK	X		X						8
CHELSEA BEACH (pp1)	X		X						9
CHESAPEAKE BAY	X		X						10
CHEST NECK	X		X						11
CHEST NECK POINT	X		X						12
COCKEY CREEK	X		X						13
COOL SPRING COVE	X		X						14
COOLEYS POND	X		X						15
CORNFIELD CREEK	X		X						16
CRYSTAL BEACH (pp1)	X		X						17
CYPRESS CREEK	X		X						18
DEEP CREEK	X		X						19
DIVIDING CREEK	X		X						20
DOBBINS ISLAND	X		X						21
EAGLE HILL	X		X						22
FOCAL POINT	X		X						23
FORKED CREEK	X		X						24
GIBSON ISLAND	X		X						25

GEOGRAPHIC NAMES

H-10622

Name on Survey	A ON CHART NO. 12278, 12278, 12275 B ON PREVIOUS SURVEY C ON U.S. QUADRANGLE MAPS D FROM LOCAL INFORMATION E ON LOCAL MAPS F P.O. GUIDE OR MAP G RAND McNALLY ATLAS H U.S. LIGHT LIST K										
	A	B	C	D	E	F	G	H	K		
GIBSON ISLAND (pp1)	X		X							1	
GIBSON ISLAND BEACH	X		X							2	
GRAYS CREEK	X		X							3	
GRAYS POINT	X		X							4	
HENDERSON POINT	X		X							5	
HICKORY POINT	X		X							6	
HOLLAND POINT	X		X							7	
INDIAN VILLAGE	X		X							8	
INNER HARBOR	X		X							9	
JAMES POND (bay)	X		X							10	
LITTLE ISLAND	X		X							11	
LONG COVE	X		X							12	
LONG POINT	X		X							13	
MAGO VISTA (pp1)	X		X							14	
MAGOTHY BEACH (pp1)	X		X							15	
MAGOTHY NARROWS	X		X							16	
MAGOTHY RIVER	X		X							17	
MANHATTAN BEACH (pp1)	X		X							18	
MARYLAND (title)	X		X							19	
MILL CREEK	X		X							20	
MOUNT CARMEL (pp1)	X		X							21	
MOUNTAIN POINT	X		X							22	
NORTH FERRY POINT	X		X							23	
OLD MAN CREEK	X		X							24	
OTTER POND	X		X							25	

Page 2 of 3

GEOGRAPHIC NAMES

Name on Survey

Page 3 of 3

A ON CHARTS, 12282, 12278, 12273
B ON PREVIOUS SURVEY No.
C ON U.S. QUADRANGLE MAPS
D FROM LOCAL INFORMATION
E ON LOCAL MAPS
F P.O. GUIDE OR MAP
G RAND McNALLY ATLAS
H U.S. LIGHT LIST
K

Name on Survey	A	B	C	D	E	F	G	H	K
PARK CREEK	X		X						1
PARK POINT	X		X						2
PAVILION PEAK	X				Geodetic Mark				3
PEA PATCH POINT	X		X						4
PERSIMMON POINT	X		X						5
PURDY POINT	X		X						6
REDHOUSE COVE	X		X						7
RIVERDALE	X		X						8
ROCK POINT	X		X						9
ROSS BAY	X		X						10
ROYAL BEACH (pp1)	X		X						11
SCHEIDES COVE	X		X						12
SHORE ACRES (pp1)	X		X						13
SILLERY BAY	X		X						14
SOUTH FERRY POINT	X		X						15
SPRIGGS POND	X		X						16
STEEDMANS POINT	X		X						17
STONY POINT	X		X						18
SUN SET KNOLL (pp1)	X		X						19
TAR COVE	X		X		Approved:				20
ULMSTEDS POINT	X		X		<i>Chris Colby</i>				21
WINDMILL POINT	X		X		<i>Chris Colby</i>				22
					Chief Geographer				23
					AUG 8 1996				24
									25

03/10/97

HYDROGRAPHIC SURVEY STATISTICS
REGISTRY NUMBER: H-10622

NUMBER OF CONTROL STATIONS	2
NUMBER OF POSITIONS	1846
NUMBER OF SOUNDINGS	9230

	TIME-HOURS	DATE COMPLETED
PREPROCESSING EXAMINATION	29	06/15/96
VERIFICATION OF FIELD DATA	146	11/02/96
QUALITY CONTROL CHECKS	27	
EVALUATION AND ANALYSIS	156	
FINAL INSPECTION	13	12/12/96
COMPILATION	301.50	03/07/97
TOTAL TIME	673	
ATLANTIC HYDROGRAPHIC BRANCH APPROVAL		03/04/97

**ATLANTIC HYDROGRAPHIC BRANCH
EVALUATION REPORT FOR H-10622 (1995)**

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.

D. 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
AutoCAD, Release 12
QUICKSURF, version 5.1
MicroStation 95, version 5.05
I/RAS B, version 5.01

The smooth sheet was plotted using an ENCAD NovaJet III plotter.

H. CONTROL STATIONS

7. 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. The smooth sheet has been annotated with ticks showing the computed mean shift between the NAD 83 and the North American Datum of 1927 (NAD 27).

To place this survey on the NAD 27 datum move the projection lines 0.397 seconds (12.249 meters or 1.22 mm at the scale of the survey) north in latitude, and 01.14 seconds (27.401 meters or 2.74 mm at the scale of the survey) west in longitude.

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

J. SHORELINE

Shoreline originates with NOS Charts 12282, 29th Edition and 12278, 64th Edition and was digitized by Atlantic Hydrographic Branch personnel. The shoreline is shown in brown on the smooth sheet and is for orientation purposes only.

L. JUNCTIONS

There are no contemporary junctional surveys. Present survey depths are in harmony with the charted depths in the junctional areas.

M. COMPARISON WITH PRIOR SURVEYS**a. Hydrographic**

H-5403 (1933) 1:10,000
H-5416 (1933) 1:10,000

The prior surveys listed above cover the present survey area in its entirety.

The following should be noted:

1) H-5403 (1933) is in good agreement with the present survey. The present survey depths are 0-5 feet (0-1⁵ m) shoaler than the prior survey depths. In the vicinity of Latitude 39°03'20"N, Longitude 76°25'51"W, near Mountain Point, present survey depths are 5-8 feet (1⁵-2⁴ m) deeper than the prior survey depths. These differences may be attributed to natural changes and modern surveying techniques.

AWOIS Item #9401, three charted sunken wrecks, in the vicinity of Latitude 39°04'03"N, Longitude 76°26'18"W, originates with the prior survey. The wrecks were located by the field unit during main scheme hydrography. The following fixes were taken on the wrecks:

<u>LONGITUDE (N)</u>	<u>LATITUDE (W)</u>	<u>DEPTH (ft/m)</u>
39°04'04.13"	76°26'20.56"	4/1 ⁴
39°04'03.36"	76°26'23.14"	4/1 ³
39°04'03.07"	76°26'22.68"	5/16
39°04'03.45"	76°26'19.88"	2/0 ⁷

It is recommended that the three submerged wreck symbols be removed from the chart and that the above positions be used to show the present limits of the wrecks on the chart. It is further recommended that a 2 foot depth with the notation Wrecks be charted inside the limit lines in Latitude 39°04'03.45"N, Longitude 76°26'19.88"W.

2) H-5416 (1933) covers the southeast portion of the present survey. The prior survey is in good general agreement with the present survey, with prior survey depths generally 0-2 feet (0-0⁶ m) shoaler than present survey depths.

The present survey is considered adequate to supersede the prior surveys within the common area.

O. COMPARISON WITH CHART 12278 (64th Edition, Mar 16/96)
12282 (29th Edition, Oct 29/94)

The charted hydrography originates with the previously discussed prior surveys and requires no further consideration. The hydrographer makes adequate chart comparisons in Section O. of the Descriptive Report. The AWOIS Items have been adequately discussed in write-ups found at the end of this report. The following should be noted:

1) AWOIS Item #9384, a charted sunken wreck (PA), in Latitude 39°04'00.39", Longitude 76°24'58.85", originating with Notice to Mariners 45 of 1967 (NM 45/67) was not investigated. It is recommended that this wreck be retained as charted. It is also recommended that this item be investigated at an opportune time.

2) A charted 3ft shoal depth Rep (1989) note, on NOS chart 12278, and a 3ft depth with a danger curve and a rep (1988) note, on NOS Chart 12282, in Latitude 39°05'02"N, Longitude 76°27'50"W, was investigated by the field and no indication of a shoal was found. Present survey depths in the area are from 3 to 10 feet. It is recommended that the 3ft shoal depth Rep (1988) note and the 3ft depth with a danger curve and a rep (1988) note be deleted from the chart and the area be charted as shown on the present survey.

3) The area around a charted 6 ft rep 1991 note on NOS chart 12278, in Latitude 39°04'00"N Longitude 76°29'50"W, and AWOIS Item 9395, an 8½ ft rep 1977 note on NOS chart 12282, in Latitude 39°03'57.39"N Longitude 76°29'49.86"W was investigated by the field. Present survey depths in this area are 4 to 6 feet. It is recommended that the note be revised to 4 ft 1995 on NOS chart 12278 and that the note be deleted and a 4ft depth be charted on NOS chart 12282.

4) The area around a charted 6 ft rep 1974 note in

Latitude 39°05'12"N, Longitude 76°32'30"W was surveyed by the field. Present survey depths in this area are 4 to 5 feet. It is recommended that the note be revised to 4 ft 1995 on NOS chart 12278 and that the note be deleted and a 4ft depth be charted on NOS chart 12282.

5) The vicinity of a charted Entrance Depth 7 Feet note on NOS chart 12278, in Latitude 39°04'40"N, Longitude 76°31'45"W was surveyed by the field. Present survey depths in this area are 9 to 12 feet. It is recommended that the note be revised to Entrance Depth 9 Feet.

6) The vicinity of a shl rep note charted on NOS chart 12278, in Latitude 39°06'23"N, Longitude 76°32'15"W was surveyed by the field. Present survey depths in this area are 4 to 6 feet. No indication of a shoal is present. It is recommended that the note be deleted and that the chart be updated with present survey soundings.

7) The geographic name, Summit Knoll, shown on NOS chart 12282 in the vicinity of Latitude 39°06'20"N, Longitude 76°32'15"W, was corrected to Sun Set Knoll by the Chief Geographer on the approved Geographic Names List. It is recommended that the geographic name Summit Knoll be revised to Sun Set Knoll on NOS Charts 12282. The geographic name does not appear on chart 12278.

8) The following charted items originate with unknown sources and were not investigated by the field. It is recommended that they remain as charted. It is further recommended that the presently charted visible piles be revised and charted as submerged.

<u>CHARTED ITEM</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>
Subm pile	39°03'10"N	76°27'00"W
5 Subm piles PA	39°03'28"N	76°26'01"W
4 Subm piles PA on chart 12278	same location	
Sunken Wreck	39°03'47.5"N	76°30'39"W-Chart 12282
Piles	39°04'00"N	76°29'40"W
Sunken WK PA	39°04'38"N	76°27'31"W-AWOIS 9387
Piling PA	39°04'40"N	76°28'27"W
6 Piles PA	39°04'49"N	76°28'27"W
2 Subm piles PA	39°04'49.5"N	76°29'12.5"W
1 Subm piles PA on chart 12278	same location	

Marker	39°05'47.5"N	76°26'27"W
2 Markers	39°05'28"N	76°26'28"W
Marker	39°05'58"N	76°26'38"W
Islet	39°05'01.5"N	76°29'49"W
Sunken Wreck PA	39°05'50"N	76°26'30"W-Chart 12278

Except as noted, the present survey is adequate to supersede the charted hydrography within the common area.

Danger to Navigation

One Danger to Navigation report was submitted to Commander (oan), Fifth Coast Guard District, Portsmouth, Virginia for inclusion in the Local Notice to Mariners, and to the Marine Chart Division, N/CS3x1, Silver Spring, Maryland.

P. ADEQUACY OF SURVEY

3. This is an adequate hydrographic survey. Additional work to resolve specific items discussed in this report is recommended at an opportune time.

Q. Aids to Navigation

The hydrographer located forty-nine (49) aids to navigation on the present survey. Fifteen are daybeacons, eleven are lights, three are privately maintained lights, six are privately maintained buoys, two are privately maintained lighted buoys, and twelve are privately maintained daybeacons. These aids were adequately discussed in the Descriptive Report and appear adequate to serve their intended purpose. The following privately maintained aid to navigation was located by the field and is recommended for charting:

<u>DESCRIPTION</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>
Deep Creek Marker	39°03'13.51"N	76°27'04.76"N

1) In Blackhole Creek, Lights 2 and 3 are charted in the vicinity of Latitude 39°04'58"N, Longitude 76°29'52"W. Blackhole Creek Light 2 has been replaced with Blackhole Creek Daybeacon "2" in Latitude 39°04'53.06"N, Longitude 76°29'46.82"W and Blackhole Creek Light 3 has been replaced with Blackhole Creek Daybeacon "3" in Latitude 39°05'01.44"N,

Longitude 76°29'46.58"W. It is recommended that the Daybeacons replace the charted lights.

2) In Gray's Creek, buoy RN"4" charted in Latitude 39°05'19.31 Longitude 76°27'53.1"W was found by the present survey to be a privately maintained daybeacon R"4" in Latitude 39°05'19.29"N, Longitude 76°27'52.09"W. It is recommended that privately maintained buoy RN"4" be deleted and that privately maintained daybeacon R"4" be charted in the above present survey location.

The following aids to navigation are in the Light List, but they were not verified by the hydrographer during the present survey. No change in charting is recommended at this time:

<u>DESCRIPTION</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>LL#</u>
Fairwinds Marina Pier Light	39°03'06"N	76°27'12"W	20165
Spriggs Pond Warning Daybeacon A	39°04'00"N	76°29'48"W	20230


S. MISCELLANEOUS

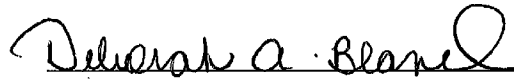
Chart compilation using the present survey was done by Atlantic Hydrographic Branch personnel in Norfolk, Virginia. Compilation data has been forwarded to Marine Chart Division, Silver Spring, Maryland.

T. RECOMMENDATIONS

Additional hydrography is recommended for verification or disapproval of AWOIS Item 9396 and the charted features mentioned in Section 0.8. of this report.

HECK PROCESSING TEAM



 Douglas V. Mason
 Cartographic Technician
 Verification of Field Data


 Deborah A. Bland
 Cartographer
 Evaluation and Analysis

APPROVAL SHEET
H-10622


Initial Approvals:

The completed survey has been inspected with regard to survey coverage, delineation of depth curves, development of critical depths, cartographic symbolization, and verification or disproval 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.


Robert G. Roberson
Chief, Cartographic Section


Date: MARCH 4, 1997

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.


Nicholas E. Perugini,
Commander, NOAA
Chief, Atlantic Hydrographic Branch

Date: March 4, 1997

Final Approval:

Approved: 
Andrew A. Armstrong, III
Captain, NOAA
Chief, Hydrographic Surveys Division

Date: March 28, 1997

MARINE CHART BRANCH
RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-10622

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
12282	12/11/96	D.A. Bland	Full Part After Marine Center Approval Signed Via Drawing No.
12278	12/20/96	D.A. Bland	Full Part After Marine Center Approval Signed Via Drawing No.
			Full Part Before After Marine Center Approval Signed Via Drawing No.
			Full Part Before After Marine Center Approval Signed Via Drawing No.
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