6363

U. S. COAST & GEODETIC SURVEY TO

APR 10 1939

to he :

Form 504
Rev. April 1935
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

-Topographic | Hydrographic |

Sheet No. H-6363

State Maryland

LOCALITY

Chesapeake Bay

1938

CHIEF OF PARTY

F. L. Gallen

U. S. GOVERNMENT PRINTING OFFICE

W.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

6661 OT 89A

REG. NO

HYDROGRAPHIC TITLE SHEET

S. Censi & GEOBETIC SURVEY

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. 1002

REGISTER NO. 14-6363 (1936)

State Maryland
General locality Chesapeake Bay
Locality Lower Elk River
Scale 1:10,000 Date of survey Aug. & Sept. , 138
Vessel Launch MIKAWE
Chief of Party F. L. Gallen
Surveyed by J. C. Partington
Protracted by George E. Varnadoe
Soundings penciled by George E. Varnadoe
Soundings in fathoms feet
Plane of reference M.L.W.
Subdivision of wire dragged areas by
Inked by R. A. Carteno
Verified by R.H. Caroteno
Instructions datedMarch 31 , 19 38
Remarks:

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet H6363 (Field No. 1002) (1938)

INSTRUCTIONS - March 31, 1938.

LOCALITY - This sheet includes the inshore hydrography on the west side of Elk Neck south of Lat. 39° 31' and the hydrography of the Elk River from it's mouth to Town Point.

SURVEY METHODS - The hydrography on this sheet was done by visual fix and depths measured with hand leadline using an 8 pound lead. Two boats were used for sounding; the deeper water was sounded with a 30 foot gasoline launch and shoaler water was sounded with a 20 ft. skiff powered by two 9 H.P. outboard motors. In general lines were run by ranges on navigational buoys or objects ashore.

SIGNALS - The smooth sheet and boat sheet were printed in the Washington
Office and show the triangulation and air photographic stations
already printed on the sheets. Where necessary, additional hydrographic
signals were located by three or more sextant cuts, by sextant fixes taken
at the signals, or by a direction and taped distance from a nearby triangulation or air photographic signal, or a combination of the above methods.

Hydrographic signals on the west side of Elk Neck were located by Lieut. (j.g.) E. B. Brown, while those in the Elk River were located by Lieut. (j.g.) J. C. Partington. The position of signals Sex, Pok and Air were transferred from sheet H6362. The positions of signals Jong and Ike were transferred from sheet H6370 The position of signal Boy was transferred from sheet H6360 (1938)

Signals Bar and Wop are pilings at the north and south ends of a wood bulkhead, which projects about 1 foot above high water. This bulkhead was used as a retaining wall during dredging operations in the Elk River. All other signals outside the low water line are temporary stakes except Boy, which is a lighthouse.

WRECKS - The only wreck found on this sheet is about 285 meters WSW of Turkey Pt. Lighthouse. Its position is shown by position lx day, vol. 8, page 54. The wreck was found during an extreme low tide and was not seen at any other time during the season. The wreck is about 10 meters long in an east west direction. Only the motor and the frame to which it was bolted remain. The motor is bare ½ foot at low water. In rounding Turkey Point this wreck is easily avoided by keeping far enough offshore to have the top of Turkey Pt. Lighthouse visible from the surface of the water.

CHANNELS - In the Elk River there is a dredged channel with project depth of 27 feet at mean low water. This channel is well marked with lights and buoys. It is the main channel to the western end of the Delaware Chesapeake Canal.

83

par. 5b,

COMPARISON WITH PREVIOUS SURVEYS

From Lat. 39° 28' to 39° 31', along the western limit of sheet, Susquehanna flat is building farther east. Changes of 2 to 9 feet were found here. The most noticable difference being at Lat. 39° 31', Long. 75° 59.5', where the former survey shows a depth of 12 to 14 feet, is now 3 to 4 feet. Except in the dredged channel and basin, Elk River compares well with the previous survey, the depths checking close up to the three fathom curve.

WIRE DRAG INVESTIGATION

A small area west of hydrographic signal Sex was dragged in order Local remove to locate a submerged rock, which was rumored to exist. This area was Nethics are sounded with a leadline on c day and e day and no indication of a rock office files. Was found.

On September 29, 1938, this area was dragged with a rope drag and the rock was not found. Later inquiry from local fishermen disclosed that although they had fished in this area many years they had never known of a rock in this locality. Furthermore, much of this fishing was done with nets and no rocks were encountered.

GEOGRAPHIC NAMES

The stretch of beach on the eastern shore of the Elk River between stations 11(U.S.E.) and 10(U.S.E.) is locally known as Crystal Beach. It is a summer resort used for bathing and boating. The name is advertised by road signs and a large sign at the entrance to this resort. Station Chrystal is named after the resort although the triangulation name is erroneously spelled. Because this beach is frequented to a large extent by small power boats the name Crystal Beach is recommended for charting.

All of the other charted geographic names of this area appear to be well established and in local use.

DISCREPANCIES

The 4 ft. sounding following Position 3 b day has been rejected and removed from smooth sheet on account of failing to compare with soundings in same area on sheet 1003 at Lat. 39° 30.95', Long. 75° 59.60'. It is believed this sounding is either in error or incorrectly spaced. Adjacent frobably incorrectly spaced. Disposition satisfactory.

EASINS - In Lat. 39° 26.25', Long. 75° 59.2' there is a small dredged basin with depths of 20 to 22 feet. This basin was used for dumping the dredged material and from here the material was pumped ashore into Pearce Creek.

Submitted by,

J. C. Partington Jr. H. & G. Engineer

Approved and forwarded,

F. L. Gallen

H. & G. Engineer

Chief of Party

STATISTICS

Day	Letter	Statute Miles	Soundings	Positions
Day	Letter a b c d e f g h j k l m n p q r s t u v	Statute Miles 13.8 20.4 19.0 23.4 1.8 7.5 25.5 25.6 20.1 26.0 23.0 11.1 23.3 17.6 12.6 10.7 18.6 15.5 16.6 1.7 4.5	Soundings 1,48 618 592 762 85 229 843 885 712 889 768 361 717 593 427 406 634 5514 469 91 118	Positions 90 123 113 151 22 34 140 148 128 152 135 73 136 121 86 84 126 114 100 16 23
	x.	0	<u> </u>	<u> </u>
		338.3	11202	2116

4

Smooth sheet No. H6363 (field No. 1002) was plotted under the immediate supervision of the Chief of Party. The sheet and records have been inspected and are approved.

> H. & G. Engineer Chief of Party

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. H6363 (1938)

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	.7:11.6
Number of positions checked	50
Number of positions revised	b.
Number of soundings recorded	112.02
Number of soundings revised	6.
Number of soundings erroneously spaced	. 13
Number of signals erroneously plotted or transferred	0

Date: //3/40
Verification by P.M. Carateras Ti

Review by J.A.Mc Cormick 1/10/40. Eime: 8 hrs.

HYDROGRAPHIC SURVEY NO. 1-6363 (1938)

Smooth Sheet Yes
Boat Shoet Yes
Records; Sounding 8 Vols., Wire Drag Vols., Bomb Vols.
Descriptive Report Yes
Title SheetYes
List of Signals Yes (Vol.#1)
Landmarks for Charts (Form 567) Yes
Statistics Yes
Approved by Chief of Party Yes
Recoverable Station Cards (Form 524)
Special Chart for Lighthouse Service Yes (Circular Nov.30, 1933)
Hydrography: Total Days 22; Last Date Sept. 13, 1938
Remarks

Remarks.

Decisions

	Normal No.	
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	Piney Creek										1
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MEMORANDUM IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT XPHIOTOSTATXOEX	No. H -6363		registered April 13, verified reviewed	
•		· · · · · ·	approved	

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE	Initial	Attention called to
20		
22		-
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25		Page 1
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88		1 HAC
90		

RETURN TO

82 T. B. Reed

V MBR

TIDE NOTE FOR HYDROGRAPHIC SHEET

Division of Hydrography and Topography:

May 4, 1939

✓ Division of Charts: Attention: Mr. E. P. Ellis

Plane of reference approved in 8 volumes of sounding records for

HYDROGRAPHIC SHEET 6363

Locality Lower Elk River, Chesapeake Bay, Md.

Chief of Party: F. L. Gallen in 1938
Plane of reference is mean low water reading
0.9 ft. on tide staff at Town Point
5.8 ft. below B. M. 3 (U.S.E.D.)
1.3 ft. on tide staff at Aberdeen
12.7 ft. below B. M. 6

0.8 ft. on tide staff at Charlestown

4.9 ft. below B. M. 1

Height of mean high water is 2.1 feet at Town Point; 1.8 feet at Aberdeen; 1.9 feet at Charlestown.

Condition of records satisfactory except as noted below:

Acting Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE 154327

Verifiers Report of Hydrographic Survey No. H-6363 (1938) 1. The shoreline and air photographic signals were printed on the sheet from T-5654 (1937) and T-5655 (1937) 2. Depth enver were satisfactory! 3. Sounding of 9 ft. between 28-29 b \$ 39-30.6 A sounding of 91%. between co-47 c y ","

A 15.59.55 was evidently taken 1 fm. too shoul
as investigation, poor, 44-151 of failed to confirm
it and the general depths are 1 fm. deeper
The 91th. sounding was amitted satisfactory.

4. Vunctions with contemporary survey. 5. Condition of sounding records was 6. The protracting was ratisfactory , The field platting of roundings was . satisfactory

Respectfully andomitted

DIVISION OF CHARTS

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6363 (1938) FIELD NO. 1002.

Maryland, Chesapeake Bay, Lower Elk River. Surveyed in Aug.-Sept., 1938, Scale 1:10,000. Instructions dated March 31, 1938. (MIKAWE)

Soundings:

Control:

Hand Lead.

3 Point fixes on shore signals.

Chief of Party - F. L. Gallen
Surveyed by - J. C. Partington
Protracted by - G. E. Varnadoe
Soundings plotted by - G. E. Varnadoe
Verified and inked by - R. H. Carstens
Reviewed by - J. A. McCormick, January 10, 1940
Inspected by - H. R. Edmonston

Shoreline and Signals.

Shoreline is from topographic maps T-5654 and T-5655. Signal locations are discussed in the descriptive report, page 1.

2. Depth Curves.

Satisfactory.

3. Sounding Line Crossings.

Satisfactory.

4. Junctions with Contemporary Surveys.

Junctions with H-6360 (1938) on the northeast, H-6361 (1938) on the east and H-6370 (1938) on the southwest are satisfactory. Verification of H-6362 (1938) on the northwest had not been completed at the date of this review nor had the survey on the west been received in the office.

- 5. Comparison with Prior Surveys.
 - a. H-172 (1846), 1:10,000; H-185 (1846), 1:10,000; H-186 (1846), 1:10,000.

Development on the 1846 surveys is much more open than on the present survey. The dredged channel is responsible for many of the differences between old and new surveys while outside the channel the agreement is fair to poor. The present survey supersedes the old surveys in the common area. b. H-2366a (1902), 1:10,000; H-2367a (1902), 1:10,000; H-2393 (1898), 1:20,000; H-2432 (1899), 1:20,000; H-2512 (1901), 1:10,000.

The combined area of the above surveys includes that of the present survey. Considerable dredging has been done in the main channel into Elk River in the interim between old and new surveys but outside the channel limits, agreement of depths is fairly good. West and north of Turkey Point, however, changes have been pronounced.

The wreck (charted) in lat. 39°29.4°, long. 75°55.6° on H-2367a was neither verified nor disproved on the present survey. It has probably disintegrated but has been carried forward to the present survey in order to be on the safe side.

The snag (charted as a low water curve) in lat. 39° 27.4¹, long. 75°57.0¹ on H-2366a falls 100 meters off—shore in 3 feet of water on the present survey. Soft, grassy bottom was recorded on the old survey and as the snag was in relatively unimportant Cabin John Creek it has not been carried forward.

The 10 foot sounding (charted) in lat. 39°28.3', long. 76°00.2' on H-2432 falls in depths of 13 feet on the present survey. Soft bottom was recorded and although depths in the immediate vicinity on the two surveys are in fair agreement, changes in the general area have been extensive. The sounding has not been carried forward.

The present survey, with the single addition noted above, supersedes the old surveys in the common area.

6. Comparison with Chart 1226 (New Print of September 8, 1939.)

a. Hydrography.

Soundings charted in the area covered by the present survey are from surveys discussed in the foregoing paragraphs. Channel limits and controlling depths are furnished at frequent intervals by the U. S. Engineers. The wreck charted off Turkey Point from Chart Letter 531 of 1950 was more accurately located on the present survey.

b. Aids to Navigation.

Positions of navigational aids on the present survey are substantially the same as those charted. Some of the charted aids were established subsequent to the survey.

7. Condition of Survey.

Satisfactory except for poor condition of southwest portion of smooth sheet caused by pasting on of large tab in that area. Such extensions of smooth sheets should be avoided where possible.

8. Compliance with Instructions for the Project.

Satisfactory except for non-investigation of items discussed in par. 5b.

9. Additional Field Work Recommended.

None.

Examined and Approved:

T. B. Reed,

Chief, Section of Field Records.

R. T. Horaus

Chief, Division of Charts.

Good Section of Field Works

Chief, Division of H. & T.

applied to Cht. 572 - may 1940 - 20. 25.

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