

3944  
3945

Diag. Cht. No.

Form 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State: <i>New York</i>
11-5613
DESCRIPTIVE REPORT.
Hydro Sheet No. <i>3944 &amp; 3945</i>
LOCALITY:
<i>Huntington and Northport</i>
<i>Bays and Approaches</i>
1916
CHIEF OF PARTY:
<i>R. P. Strough</i>

3944-5

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3944

State . . . New York. . . . . .

General locality . . . Long Island Sound. . . . . .

Locality . . . Approaches to Huntington Bay. . . . . .

Chief of party . . . R. P. Strough. . . . . .

Surveyed by . . . R. P. Strough. . . . . .

Date of survey . . . September to November 1946, . . . . .

Scale . . . 1 to 10,000. . . . . .

Soundings in . . . . .

Plane of reference . . . Mean low water. . . . . .

Protracted by R. P. S. . Soundings in pencil by . . . . .

Inked by . . . . . Verified by . . . . .

Records accompanying sheet (check those forwarded):

Des. report, 1 Tide books, \_\_\_\_\_ Marigrams, 1 Boat sheets,

\_\_\_\_\_ Sounding books, \_\_\_\_\_ Wire-drag books, \_\_\_\_\_ Photographs.

Data from other sources affecting sheet . . . . .

**Original sheet No. 1708.**

Remarks:

**Soundings have not been reduced by the Tidal Section and are therefore left off the sheet.**

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3945

State . New York. . . . . .

General locality . Long Island Sound. . . . . .

Locality . Huntington and Northport Bays. . . . . .

Chief of party . R. P. Strough. . . . . .

Surveyed by . . . R. P. Strough. . . . . .

Date of survey . September to November 1916. . . . . .

Scale . . . . . 1 to 10,000 . . . . .

Soundings in . . . . .

Plane of reference . mean low water. . . . . .

Protracted by E. S. W. . Soundings in pencil by . . . . .

Inked by . . . . . Verified by . . . . .

Records accompanying sheet (check those forwarded):

Des. report, 1 Tide books, 1 Marigrams, 1 Boat sheets,

         Sounding books,          Wire-drag books,          Photographs.

Data from other sources affecting sheet . . . . .

**Original sheet No. 1707.**

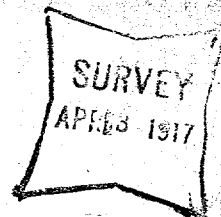
Remarks:

**Soundings have not been reduced by the tidal section are therefore omitted from the sheet.**

DEPARTMENT OF COMMERCE.

COAST AND GEODETIC SURVEY.

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ASST. IN CHARGE (S)

E. LESTER JONES, SUPERINTENDENT.

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NEW YORK.

Long Island Sound.

Huntington and Northport Bays and their approaches.

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A Descriptive Report to Accompany Hydrographic Sheets

<sup>3945</sup> <sup>3944</sup>  
Nos. ~~3707~~ and ~~3708~~.

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Scale 1 to 10,000

1916.

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R. P. Strough,

Assistant, C. & G. Survey,

Chief of Party.

3948

A Descriptive Report to Accompany Hydrographic Sheets Nos. ~~3774~~

3944  
and ~~3774~~

Long Island Sound, New York.

September to November,

1916.

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I have the honor to submit the following report on the hydrographic work done by the party under my charge in accordance with your instructions dated Sept. 1st, 1916. The work extends along the north shore of Long Island from Lloyd Point eastward to the eastern end of East Beach, including Huntington and Northport Bays and the harbors off these bays, and offshore to the seven fathom curve. Split lines were run, at intervals of 100 meters or less, between the lines on the old sheet and a still closer development was made over the shoals and in the harbors.

GENERAL DESCRIPTION OF THE COAST:

Under date of Dec. 5th, 1916 I transmitted to the office a brief report on various important features in the vicinity of Huntington Bay and I wish to again call your attention to that report. The points Target Rock, Lloyd Harbor Old L. H., and Sand Elevator are important day marks and should be shown on the chart. On the west side of Eatons Point and just to the south of the Coast Guard station there is a large sand dredging plant, now in operation, and their activities have removed a large amount of material in that locality and have formed a good harbor of refuge available for motor boats and small craft. The shoreline around this

harbor was not located but its approximate limits are sketched in dash lines on the sheet. Similar sand dredging operations are being carried on at West Beach and sounding lines were run into the harbor there also. I think the shoreline in this latter bight was revised by Assistant W. C. Hodgkins in 1916. The sand at West beach has been dredged out to such an extent that there is now only a very narrow sand spit connecting the beach with Eatons Neck, and it now seems likely that continued cooperation of this plant will remove the beach entirely and expose Northport Bay to the N. W.

#### MENACES TO NAVIGATION.

No outlying dangers to navigation were located by this survey but several important rocks were found in the shoal water nearer the shore. The most notable of these being the rocks N.E. of Eatons Neck L. H. and those off East Fort Point, near Target Rock. Some rocks bare at low water were also located between Lloyd Harbor New L. H. and the west bank of Huntington Gut.

#### CURRENTS:

There is a strong tidal current thru Huntington Gut and into Huntington Harbor which seems to set in the direction of the channel. No observations were made but the estimated velocity of the current thru here is about three knots. The current is also strong thru the channel from Huntington to Northport Bays in the vicinity of the gas buoy. The ebb tide from the north side of Northport Bay is carrying the sand to the southward off West Beach and the channel has moved considerably in this direction. I am transmitting herewith a section of chart 368 showing the changed position of the buoys



marking the channel from Huntington to Northport Bays.

METHODS AND CONTROL:

The ordinary method of hand lead and line was used and the control for the work was obtained from the old triangulation, from the triangulation and also the topography of the party of Assistant W. C. Hodgkins and by sextant location of signals. A list of the signals and the method of their location follows:

Signal.	Description.	Method of location.
Lyd.	Fish Commission tripod	Triangulation, old.
Luf.	Tripod, temporary	Sextant.
Hix.	Fish Commission Tripod	Triang. N. Y. State.
Sed.	Near station Cedar	Triang. old.
Stone.	Target Rock.	" W. C. H. 1916.
Old.	Lloyd Harbor Old L. H.	" old.
Rod.	Flag.	" W. C. H. 1916.
Fil.	Chimney of house	" " "
Top.	Gable of house	Sextant.
Tin.	Chimney of house	"
Nor.	Sand Elevator N. W. cor.	Triang. W. C. H. 1916.
To,	Coast Guard station pole	Sextant.
Life.	Coast Guard flg. stf.	Triang. W. C. H. 1916.
Eat.	Eatons Neck L. H.	" old.
Po.	Chy. of house	Sextant.
Nat.	Water tank	Triang. W. C. H. 1916.
Ron.	Tripod, temporary.	Sextant.
Duc.	Water tank Duck Id.	Triang. W. C. H. 1916.



Signal	Description	Method of Location.
Art.	Arthurs house cupola	Triang. W. C. H. 1916.
Jam.	Tripod, temporary,	" " " " "
Rat.	Small house	Topography, W. C. H. 1916.
Rig.	Flag	" " " " "
Bot.	Flag	" " " " "
Cop.	Flag.	" " " " "
Yel.	Gable of Boat House.	" " " " "
Dig.	Flg. Stf. on boat house	" " " " "
Dol.	Cupola on house.	" " " " "
Cane.	Flag.	" " " " "
Win.	Gable of boat house	" " " " "
Sin.	Mast of boat on beach	Sextant.
Bo.	Flag.	Topography, W. C. H. 1916.
Shed.	House on dock	" " " " "
New.	Lloyd Harbor New L. H.	Triang. W. C. H. 1916.
Gabl	Gable of old mill	Topography, W. C. H. 1916
Bon.	Tower on hill	" " " " "
Bon.	Browns boat house cupola	" " " " "
Twin.	Twin chimneys on Browns house	Triang. W. C. H. 1916.
No.	Flag	Topography W. C. H. 1916.
Hop.	Gable of old shop	" " " " "
Dim.	Red windmill tower	" " " " "
Tack.	Huntington El. Co. chimney	" " " " "
Har.	Tank on dock	" " " " "
Gus.	Fergusons house cupola	" " " " "
Nine.	Flag.	" " " " "

Signal.	Description.	Method of Location.
Tes.	Flag staff on boat house	Topography W. C. H. 1916.
Ver.	Alversons flag staff.	" " " " "
Rick.	Derick on wharf	" " " " "
Post.	Post light	" " " " "
Tow.	Tower on hill	Triang. old.
Tan.	Tank on hill	" W. C. H. 1916.
Cup.	West cupola golf and marine club	" " " " "
Red.	Flag staff, L <sup>1</sup> Ecluses	" " " " "
Par.	Newells water tank.	" " " " "
Kip.	Gable of white boat house	Sextant. <del>Topography, W. C. H. 1916.</del>
Lag.	Stewarts flag staff.	Triang. W. C. H. 1916.
Hy.	Vanderbilts flag staff.	" " " " "
Bab.	Morrells flag staff	" " " " "
Big.	Lillys flag staff.	" " " " "
Stack.	Northport west stack.	" " " " "
Mop.	Flag staff on hill	Sextant.
Hod.	Station Foot.	Triang. W. C. H. 1916.
Jam.	Tripod, temporary	" " " " "
Doc.	House on dock.	Scaled from original sheet.
Art.	Arthurs house cupola	Triang. W. C. H. 1916.
Ban.	Flag.	Sextant.
Box.	Flag.	Triang W. C. H. 1916.
Bet.	Gable of boat house.	Sextant.
Pol.	Flag staff	"
Up.	Flag.	"

TABLE OF STATISTICS:

Hydrographic sheet No. ~~3707a~~ 3945

Day.	Miles.	Soundings,	Positions.
A.	1.8	73	13
B	12.5	416	57
C	16.0	496	87
D	10.4	373	57
E	6.1	291	37
F	8.6	389	54
G	20.9	759	125
H	1.2	81	15
J	10.8	516	94
K	1.0	39	9
L	13.2	625	135
M	15.9	725	125
N	1.1	242	36
O	16.0	1067	121
P	10.8	544	80
Q	11.8	759	90
R	5.9	483	47
S	9.2	562	77
T	9.4	1532	93
U	<u>5.5</u>	<u>412</u>	<u>47</u>
TOTALS	173.7	10183	1403.

TABLE OF STATISTICS.

Hydrographic Sheet No. ~~4788~~ 3944.

Day.	Miles.	Soundings.	Positions.
A.	11.5	300	60
B	8.4	254	53
C	14.2	308	69
D	19.6	529	119
E	11.5	279	69
F	14.2	426	115
G	23.6	530	136
H	4.1	118	21
J	17.8	512	93
K	1.7	145	19
L	<u>17.5</u>	<u>510</u>	<u>108</u>
TOTALS	144.1	3911	862

Respectfully Submitted,

*R. P. Strough*

Assistant, C. & G. Survey.

Chief of Party.

To the

Superintendent, Coast and Geodetic Survey,

Washington, D. C.

April 3rd. 1917.

VEC  
May 21, 1917

13  
R.P.  
H.C.

HYDROGRAPHIC SHEET 3945.

Huntington Bay and Northport Bay, Long Island Sound, N.Y.  
by party of Assistant R. P. Strough in 1916.

TIDES.

	Oyster Bay Feet.	Lloyds Harbor Light Feet.
Mean low water, or plane of reference on staff	2.2	1.3
Mean range of tide	7.3	7.4

VEC  
May 21, 1917

75  
B.P.  
H.C.

HYDROGRAPHIC SHEET 3944.

Approaches to Huntington Bay, Long Island Sound, N.Y.

by party of Assistant R. P. Strough in 1916.

TIDES.

	Oyster Bay Feet.	Lloyd Harbor Light Feet.
Mean low water, or plane of reference on staff	2.2	1.3
Mean range of tide	7.3	7.4

Hydrography No. 3944.

This sheet was protracted by R.P. Strough in the field and in going over it before plotting the soundings, no errors were discovered.

As the work on this sheet was intended as supplementary work to that done in 1886 and shown on Hydrographic Sheet No. 1708, a combination tracing was made and the depth curves for this area were drawn on the combination tracing rather than on the original sheet.

On the combination tracing are noted two soundings that appear doubtful. Also arrows are drawn in to all shoals and a note made as to the depth of least water.

Certain shoals shown on the sheet No. 1708 are from "old work" and were traced as shown. This makes the tracing, as far as certain places are concerned, cover work as old as 1836.

The area had, apparently, undergone no very great changes during the period from 1886 to 1916 as evidenced by the comparatively smooth character of the curves on the combination sheet.

*Howard S. Rappleye*

June 19, 1917.

Soundings in feet.

Protracted by R.P. Strough.

Plotted and inked by H.S. Rappleye.

Combined with No. 1708 by H.S. Rappleye.

*Verified by S. L. Rosenberg*

Hydrography No. 3945.

This sheet was protracted in the field by the field party and the protracting was on the whole very good though a greater number of changes were made in the plotting on this sheet than on the companion sheet (No. 3944) by the same party.

The soundings were plotted and inked on the original field sheet and then a tracing made of the sheet in black ink. This was then placed over sheet No 1707 (embracing the same area and surveyed in 1886) and the old soundings inked in in red.

Depth curves were then drawn in on the combination tracing taking into consideration the work of both surveys where possible but in one case near "Tank" a new channel had evidently been dredged and caused old 0 and 1 foot soundings to fall in the midst of new soundings from 8 to 12 feet in depth.

Special attention should be called to the fact that there is a ten foot sounding noted on the tracing which appears to be either wrongly located or else of wrong depth but to be on the side of safety this was taken into account in drawing the depth curves.

The work as a whole and the crossings in most cases were very good and the area appears to be very well covered.

*Howard S. Rappleye*

July 6th., 1917.

Soundings in feet.

Protracting by the field party.

Soundings plotted and inked by H.S. Rappleye.

Combination tracing by H.S. Rappleye.

*Verified by S. L. Rosenberg*