

3907

Diag. Cht. No. 1211-2 & 1212-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. _____ Office No. H-3907

LOCALITY

State NEW YORK

General locality LONG ISLAND

Locality BLOCK ISLAND & GARDINERS BAY

19A 16

Add. Work 1934
CHIEF OF PARTY

J. H. Hawley

LIBRARY & ARCHIVES

DATE MARCH 1, 1917.

B-1870-1 (1)

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U. S. COAST AND GEODETIC SURVEY
L. & A.
1917
Adv. No.

Form 504

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: *New York*

11-5613

DESCRIPTIVE REPORT.

Sheet No.

LOCALITY:

Long Island

1916
Add'l Work 1934

CHIEF OF PARTY:

J. H. Hawley

3907

DESCRIPTIVE REPORT
To accompany Hydrographic Sheet No. 3907.

U.S. SURVEY
L. & A.
MAY 1 1917
Ass. No.

Only a small percentage of the area covered by this sheet has been dragged, and as it was necessary to work in different localities, depending on weather conditions, no attempt was made to drag a continuous area.

All shoals discovered have been reported but, as predicted tides were used for reducers, it may be necessary to revise some of the depths to conform to the actual tidal conditions. It should be noted that many of the shoals have not been finally examined. These shoals are entered in pencil on the boat sheet while those that have been finally examined are inked in red.

The only shoal dangerous to navigation is the large shoal with a least depth of 30 feet which lies 2 miles northwest of Shagwong Reef bell buoy.

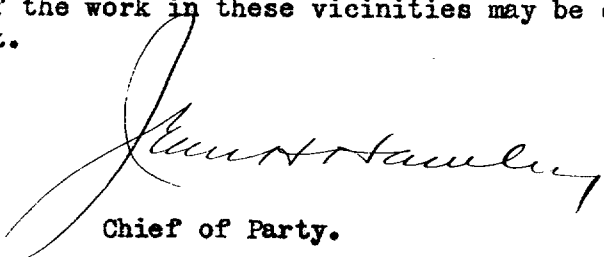
On September 12th the drag caught at sounding position LH while set at 72 feet. No sounding could be obtained and it is probable that one buoy sank, causing the drag to sag and catch at a greater depth than that at which the drag was set.

As a general rule tidal observations for the reduction of the work were obtained in accordance with the following table:

Locality of work	Staff at
East of Shagwong Point	Montauk Point.
West of Shagwong Point	Fort Pond Bay.
Gardiners Bay and Plum Gut	Long Beach Bar L.H.

The western limits of the work in Gardiners Bay are defined by the outer lines on stakes marking the oyster beds.

Due to the heavy swell to the southward and eastward of Montauk Point, the results of the work in these vicinities may be considered uncertain by $\pm \frac{1}{2}$ foot.


Chief of Party.

STATISTICS SHEET
To accompany hydrographic sheet No. 3907

Day	Date	Length of drag	Miles run	Positions		Soundings	
				No	Angles	No.	Angles
A	Aug. 23	4,000	5.2	31	186	0	0
B	24	4,000	5.0	35	210	0	0
C	30	4,000	8.1	56	334	0	0
D	31	4,000	1.0	12	72	0	0
E	Sep. 5	4,000	2.5	19	112	2	4
F	9	4,000	4.5	19	112	0	0
G	11	12,000	11.2	32	192	0	0
H	12	11,900	5.5	20	120	1	2
J	13	5,000	4.7	16	92	1	2
K	14	4,000	2.0	21	126	3	6
L	18	4,000	3.8	35	208	6	12
		900					
		1,200					
M	20	1,200	3.2	30	180	3	6
		4,000					
N	21	3,000	3.7	30	172	3	6
		4,000					
		3,200					
O	22	5,000	6.3	34	197	8	16
		4,000					
P	25	5,000	1.0	8	46	1	2
Q	27	4,000	0.8	8	46	1	2
R	Oct. 2	5,000	0.3	0	0	1	2
S	3	5,000	6.3	40	228	6	12
		4,000					
T	4	4,000	5.2	37	214	2	4
		3,200					
U	5	4,000	4.5	33	194	3	6
V	11	4,000	3.6	21	126	0	0
W	12	4,000	7.7	58	346	1	2
X	16	4,000	6.0	44	264	0	0
Y	18	4,000	11.0	79	456	0	0
Z	21	4,000	2.5	17	102	0	0
A'	24	1,200	2.5	25	148	0	0
B'	25	1,200	6.0	37	216	2	4
C'		4,000					
C'	27	4,000	7.6	52	310	0	0
D'	28	4,000	7.2	43	254	1	2
E'	30	1,500	1.0	13	78	2	4
F'	Nov. 2	4,000	1.4	13	78	0	0
G'	4	4,000	5.4	35	210	0	0
H'	6	3,000	9.5	78	464	0	0
J'	7	3,000	2.6	18	106	0	0
K'	9	4,000	6.5	48	288	3	6
L'	10	4,000	2.8	17	102	0	0
			<u>149.6</u>	<u>1114</u>		<u>50</u>	

VEC
Feb. 24, 1917

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RFL

HYDROGRAPHIC SHEET 3907.

Block Island Sound and Gardiners Bay, New York, by
Assistant J. H. Hawley in 1916.

TIDES.

	Long Beach Bar Light	Fort Pond Bay	Montauk Point
	Ft.	Ft.	Ft.
Mean low water, or plane of reference on staff	1.4	1.0	2.3
Mean range of tide	2.5	2.2	2.0

Hyd = 3907

The isolated areas covered by the drag represent portions of Black Island Sound and Gardiners Bay.

The areas were completely covered and the few splits shown on the tracing are due to the presence of buoys, charted rocks, or other obstructions. Shoals and the least depth over them were determined in the usual manner. In several cases, however, the shoals were not fully examined and attention to this fact is called by the Chief of the party in his Descriptive Report.

In a few instances the sounded depth on a spot struck by the drag exceeds by 1 foot the max. eff. depth at which the drag was moving. For example, at 17M the drag set at 36 feet struck. On sounding a 37 ft. shoal has been located. In such cases the one foot difference is probably due either to the sagging of the drag or to the excessive correction for lift. During days G', H', J', K', & L' no correction for swell was introduced and for max. effective depths of over 20 feet, one foot for lift was assumed.

The plotting was very carefully done and the few minor inaccuracies corrected in the process of verification.

The work was systematically arranged, well executed, and the records throughout kept in good shape.

J. B. Shklar

4/28-17.

Applied to ch 362 RDC 10/28/49

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