

7802

Diag. Cht. Nos. 1214-2 & 1215-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

✓ Field No. LIS-1151 Office No. H-7802

LOCALITY

State NEW YORK

General locality LONG ISLAND

Locality GREAT SOUTH BAY

194 51

CHIEF OF PARTY

J. Laskowski

LIBRARY & ARCHIVES

DATE MAY 16, 1952

7802

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

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

REGISTER NO. H-7802

Field No. LISP -1151

State NEW YORK ✓

General locality LONG ISLAND ✓

Locality GREAT SOUTH BAY ✓

Scale 1:10,000 ✓ Date of survey 26 Apr. to 31 July 1951 ✓

Instructions dated 3/7/49 Supplemental 4/11/50; 5/9/50; 4/23/51

Vessel Launch # 168 (Long Island Shore Party)

Chief of party John Laskowski ✓

Surveyed by John Laskowski & J.A. Roulier ✓

Soundings taken by ~~fathometer~~, graphic recorder, hand lead, ~~wire~~

Fathograms scaled by Party Personnel

Fathograms checked by Party Personnel

Protracted by W.L. Jonns

Soundings penciled by A.G. Atwill

Soundings in ~~fathoms~~ feet at MLW ~~MLLW~~ and are true depths ✓

REMARKS: This survey was smooth plotted in the Hydrographic Section
of the Norfolk Processing Office.

This descriptive report was submitted by the Field for surveys nos.
H-7801 & H-7802

783

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SHEET H-7801 (FIELD NO. LISP-1650b)---
HYDROGRAPHIC SHEET H-7802 (FIELD NO. LISP-1151)

GREAT SOUTH BAY LONG ISLAND NEW YORK
LONG ISLAND SHORE PARTY JOHN LASKOWSKI, CHIEF OF PARTY
PROJECT CS-337 1951 SCALE 1:10,000

* * * * *

PROJECT: The surveys were accomplished under Instructions of 7 March 1949; Supplemental Instructions of 11 April and 9 May 1950 and Director's Letter of 23 March, 1951. The instructions called for a basic hydrographic survey.

SURVEY LIMITS AND DATES: The surveys cover an area of Great South Bay extending westward from Long. 73-07.5 to a line connecting the points at Lat. 40-41.4, Long. 73-16.4 and Lat. 40-38.1, Long. 73-12.7. It also includes the survey of the dredged channel extending from north to south of Captree Island. The season began on 26 April with the recovery of triangulation stations, building of signals and installation of tide gages. The hydrography was accomplished during the period of 14 May to 31 July 1951. A junction was made at the western limit with that part of the survey of Sheet H-7801 made in 1950. The junction of Sheets H-7801 and 7802 was made at Long. 73-12.0.

VESSELS AND EQUIPMENT: Aluminum Launch No. 168 was used for the surveys. The launch was operated from a shore base located at Bay Shore, N. Y. Echo soundings were obtained with Graphic Recorders 138SPX, 139SPX, and 112S. The transducers were mounted inboard.

TIDES AND CURRENTS: The Tide Note is attached to this report. Currents were not observed.

SMOOTH SHEET: To be plotted by the Norfolk Processing Office.

CONTROL STATIONS: Triangulation as previously established was used for control. Photogrammetric stations were transferred from Air Compilation Sheets T-9298, T-9299 and T-9301.⁽¹⁹⁴⁹⁾ Hydrographic stations were established as necessary. Their positions were usually determined by taking a sextant fix at each of the station sites.

SHORELINE AND TOPOGRAPHY: The shoreline and topographic details were transferred from Air Compilation Sheets T-9298, T-9299, and T-9301.⁽¹⁹⁴⁹⁾ The location of a small channel on Sheet H-7802 (Lat. 40-44.0, Long. 73-08.85) was transferred from the latest print of Chart No. 578.

SOUNDINGS: Soundings were obtained with the graphic recorder. The handlead or pole was used for sounding along side piers and at buoys.

CONTROL OF HYDROGRAPHY: The hydrographic surveys were controlled by sextant fixes using shore signals. In the upper reaches of channels and streams where control was lacking the positions of sounding lines were referred to distinctive shoreline details. The proper remarks were inserted in the sounding records.

ADEQUANCY OF SURVEY: The surveys are complete and are considered adequate to supersede prior surveys. A satisfactory junction was made for the 1950 and 1951 work of Sheet H-7801 and also for Sheets H-7801 (1951) and H-7802 (1951). There are no holidays and the depth curves can be adequately drawn at the junctions.

CROSSLINES: There is a sufficient number of crosslines to verify the accuracy of the survey.

COMPARISON WITH PRIOR SURVEYS: No comparison is made with prior surveys but a comparison with the latest print of Chart 578 is listed.

See Review, par. 5

COMPARISON WITH CHART 578 (Print date 9-10-51)

Sheet H-7801 (1650b)

Dickerson Channel as shown on Chart 578 was dredged in June 1951. The bar on the southern end of the channel was removed by dredging in July 1951. After completion of the dredging the area was resurveyed. It is recommended that the 1951 work be plotted prior to the 1950 work and supersede the prior survey of this area.

Not applicable to present survey

Sheet H-7802 (1151)

<u>Latitude</u>	<u>Longitude</u>	<u>1951 Survey</u>	<u>Chart</u>	<u>Remarks</u>
40-39.26/3	73-12.03	Wreckage	Stranded Wreck	Recommend <u>wreckage symbol</u> . Small boat in ruins and water tank covered at MLW. <i>now charted</i>
40-38.60	73-11.20	Dredged Channel	- - -	Dredged channel to summer homes.
40-38.60	73-10.78	"	- - -	" " " " "
40-38.40	73-11.55	18-25 ft.	1 ft.	Clam Pond dredged. Material used to build up beach.
40-39.55	73-08.60	4 ft.	3 ft.	Shoal area
40-41.55	73-11.83	- - -	Brush	Recommend deletion. No brush noted. <i>(brush deleted)</i>


DANGERS AND SHOALS: There are no important newly found dangers or shoals to report. ✓

COAST PILOT INFORMATION: To be submitted to Washington Office under separate cover. ✓

AIDS TO NAVIGATION: Reported to office on Form 567. Copy of report attached to this report. ✓

LANDMARKS FOR CHARTS: No new landmarks to report. ✓

MISCELLANEOUS: The triangulation party on Long Island was to recover and submit the notes for the marked triangulation stations. ✓


John Laskowski
Comdr., C&GS
Chief of Party

STATISTICS TO ACCOMPANY

HYDROGRAPHIC SHEET H-7802 (FIELD NO. LISP-1151)

LAUNCH NO. 168

<u>Date</u> <u>1951</u>	<u>Vol.</u> <u>No.</u>	<u>Day</u> <u>Ltr.</u>	<u>HL & Pole</u> <u>Sdgs.</u>	<u>No. of</u> <u>Pos.</u>	<u>Stat. Mi.</u> <u>Sdgs.</u>
4 June	1	a	-	94	13.9
5	2	b	-	71	9.1
6	2 & 3	c	1	128	22.7
7	3	d	-	129	23.7
8	3 & 4	e	1	126	21.5
11	4	f	-	84	14.7
12	5	g	3	175	35.4
13	6	h	1	69	11.2
15	6 & 7	j	2	142	23.6
18	7 & 8	k	7	186	34.4
19	8 & 9	l	3	139	25.9
20	9	m	2	155	22.2
21	10	n	2	154	26.9
22	11	p	1	56	8.8
25	11	q	1	66	9.0
26	11 & 12	r	-	105	16.0
28	12	s	-	74	12.4
2 July	13	t	-	126	18.5
3	13 & 14	u	-	108	17.6
9	15	v	-	68	10.4
10	15	w	2	83	9.9
11	15 & 16	x	1	57	7.4
13	16	y	-	110	15.2
16	16	z	-	53	6.4
17	16	aa	4	28	2.3
TOTALS	16	25	31	2586	419.1

Area in square statute miles . . . 16.2

TIDAL NOTE TO ACCOMPANY

HYDROGRAPHIC SHEET H-7801 (FIELD NO. LISP-1650b)
 HYDROGRAPHIC SHEET H-7802 (FIELD NO. LISP-1151)

Observations were obtained at five tide stations. Portable automatic gages were installed at four of the stations and one tide staff station was established at Wa Wa Yanda with readings being recorded as required. The locations of the stations are shown on the boat sheets and the limits of the area in which the tides of each were used for reducing the soundings are outlined in blue ink. Planes of reference were furnished from the Washington Office. No differences in time or range were applied to the observed tides.

<u>STATION</u>	<u>LAT.</u>	<u>LONG.</u>	<u>MLW ON STAFF</u>
Bay Shore	40 - 42.77	73 - 14.44	2.3 ft
Wa Wa Yanda	40 - 39.04	73 - 14.61	1.8 ft
West Fire Island	40 - 39.37	73 - 12.26	2.3 ft
Point O' Woods	40 - 39.13	73 - 08.23	2.4 ft
Great River	40 - 43.43	73 - 09.08	3.1 ft

VELOCITY CORRECTIONS

HYDROGRAPHIC SHEET H-7801 (FIELD NO. LISP-1650b)
 HYDROGRAPHIC SHEET H-7802 (FIELD NO. LISP-1151)

LONG ISLAND SHORE PARTY

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All soundings recorded on FOOT SCALE - A RANGE. Launch No. 168 was for the survey of the two sheets.

LAUNCH NO. 168

RECORDER NO. 138 SPX

Initial 0.0
 28 & 29 May

Correction ft	From	To
0	0 -	1.5
+ 0.2	1.6 -	4.6
+ 0.4	4.7 -	Sdg depth

RECORDER NO. 139 SPX

Initial 0.0
 14 May

Correction ft	From	To
+ 0.2	0 -	1.4
+ 0.4	1.5 -	2.5
+ 0.6	2.6 -	3.7
+ 0.8	3.8 -	5.9
+ 1.0	6.0 -	Sdg depth

RECORDER NO. 112S

Initial 1.0
 22, 25, 26, 28 & 29 June
 2, 3, 9 & 10 July

Correction ft	From	To
- 1.0	0 -	1.8
- 0.8	1.9 -	2.4
- 0.6	2.5 -	3.0
- 0.4	3.1 -	3.6
- 0.2	3.7 -	10.0
0	10.1 -	16.7
- 0.2	16.8 -	Sdg depth

RECORDER NO. 139 SPX

Initial 1.0
 15, 16, 17, 21, 22, 23, 25, 30 &
 31 May 4, 5, 6, 7, 8, 11, 12,
 13, 15, 16, 18, 19, 20 & 21 June
 11, 13, 16, 17, 18, 20, 23, 24,
 25 & 26 July

Correction ft	From	To
- 1.0	0 -	1.4
- 0.8	1.5 -	2.6
- 0.6	2.7 -	3.2
- 0.4	3.3 -	3.8
- 0.2	3.9 -	12.0
0	12.1 -	16.4
- 0.2	16.5 -	24.2
- 0.4	24.3 -	31.8
- 0.6	31.9 -	Sdg depth

LEADLINE MARKED CORRECTLY
 NO CORRECTION

LIST OF SIGNALS

TRIANGULATION STATIONS

JIB (FIRE ISLAND LIGHTHOUSE, 1865-1932)
 LASALLE TOWER, 1914-33
 NICHOLS, 1909-33
 OCEAN BEACH WINDMILL, 1933
 POI, 1933
 SALTAIRE, TANK, 1933
 POINT-O-WOODS, TANK, 1909-33

*Described*MARKED TOPOGRAPHIC STATIONS

ART (STACK, 1949)	T-9301	
BOB (SPIRE, 1949)	"	
FILL (FILL, 1949)	"	(marked)
OAK (OAKDALE, 1950)	T-9299	(marked)
RIM (STACK, 1949)	T-9301	
TANK (TANK, 1949)	"	
WIND, 1949	"	(marked)

TOPOGRAPHIC STATIONS

Cab	T-9301	Nat	T-9299
Fez	T-9299	Nut	"
Job	"	Odd	"
Ken	T-9301	Pep	T-9301
Lux	T-9299	Pot	T-9299
		Tom	"

PHOTOGRAMMETRIC STATIONS

Aim	T-9301	Leo	T-9299
Amy	T-9299	Liz	T-9301
Cry	"	Man	"
Dip	"	Peg	T-9299
Dud	T-9301	Pet	"
Elm	T-9299	Roy	"
Fun	"	She	"
Ida	T-9301	Sue	T-9301
Ivy	T-9299	Tub	"
Jap	T-9301	Yet	T-9299

HYDROGRAPHIC STATIONS

Ace	Vol. 1 p. 8
Eva	Vol. 1 p. 9
Mar	Vol. 1 p. 7
Sis	Vol. 1 P. 7
Vet	Vol. 1 p.9
War	Vol. 6 p. 22

APPROVAL SHEET

TO ACCOMPANY

HYDROGRAPHIC SHEET H-7801 (FIELD NO. LISP-1650b)
HYDROGRAPHIC SHEET H-7802 (FIELD NO. LISP-1151)

The boat sheets and records were examined daily. The survey is considered adequate and no additional work is recommended.

John Laskowski
John Laskowski
Cdr. C&GS
Chief of Party

H-7802 (LISP-1151)

FLOATING AIDS TO NAVIGATION

1952 LIGHT LIST				Latitude	Longitude	Depth	Pos.	Date
				Meters	Meters		No.	
FARM SHOALS LIGHTED BUOY	1			40-38 552	73-12 1138	19.0	1aa	7-17-51
JUNCTION LIGHTED BUOY				" ¹⁵⁸⁴ 1569	" 252	10.5	3aa	"
NORTH CHANNEL LIGHTED BUOY	4			40-41 375	73-09 154	8.8	76n	6-21-51
"	"	"	5	" ⁷⁵⁸ 772	73-08 737	14.6	104 ^m	6-20-51
East	"	"	8	40-39 ³⁹¹ 386	73-11 684	25.5	16k	6-18-51
"	"	"	12	40-38 1638	73-10 775	11.5	29p	6-22-51
"	"	"	15	40-39 336	73-08 703	13.8	39k	6-18-51
"	"	"	17	" ¹⁸³⁹ 1835	" ²³³ 248	12.3	70g	6-12-51
RANGE CHANNEL	"	"	3	40-40 ¹¹⁰² 1099	" 1004	7.7	69l	6-19-51
East	"	"	18	" ¹²³¹ 1339	" ⁶³ 82	-	34g	6-12-51
FARM SHOALS BUOY	4			40-38 783	73-12 608	10.2	58w	7-10-51
"	"	"	3	" 918	" 814	12.7	59w	"
NORTH POINT BUOY	5			" 1206	" 594	18.0	2aa	7-17-51
WEST CHANNEL BUOY	4			40-39 ⁹⁹⁰ 973	" 616	8.9	24e	6-8-51
RANGE CHANNEL BUOY	1			" 1055	73-08 1012	9.4	77l	6-19-51
EAST CHANNEL BUOY	6			40-38 ¹⁴⁸⁸ 1469	73-12 ⁵⁰ 40	13.3	4aa	7-17-51
"	"	"	10	" 1807	73-10 1116	22.0	20k	6-18-51
"	"	"	11	40-39 ⁷⁰ 61	" 874	20.8	23k	"
"	"	"	13	" 58	73-09 1268	17.0	34l	6-19-51
"	"	"	14	" 228	73-08 1356	14.3	34k	6-18-51
"	"	"	16	" 1005	" 373	15.8	136n	6-21-51
"	"	"	19	40-40 ¹⁴⁵⁰ 1443	73-07 ¹³⁸⁰ 1393	8.0	62h	6-13-51
"	"	"	20	" 1569	" 1161	8.5	64k	6-18-51
"	"	"	22	40-41 ¹³⁴ 142	" ⁷⁹⁶ 805	9.7	63m	6-20-51
NORTH	"	"	3	" ⁹⁸⁴ 964	73-10 1285	9.6	9g	6-12-51

FLOATING & NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~

STRIKE OUT ONE

Norfolk, Virginia 18 January, 1952

I recommend that the following objects which have ~~been~~ been inspected from seaward ~~to determine their status as charted landmarks~~ be charted on ~~(charts)~~ the charts indicated.
The positions given have been checked after listing by

J. A. Roulier, Ens.

John Leankowski Chief of Party.

STATE	NEW YORK	DESCRIPTION	Depth of Water	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED	
				LATITUDE		LONGITUDE								DATUM
				°	'	°	'							
		GREAT SOUTH BAY, L. I. N. Y. - Description from 1951 Light List. Number of page listed, N.A. Sextant						1951						
1 ea		Farm Shoals Lighted Buoy 1	19.0	40-38	73-12	1138	1927	Fix	7-17	X		578		
3 ea		JUNCTION LIGHTED BUOY	10.5	40-38	73-12	252	"	"	7-17	X		"		
H-7802		No. 1116 - I. QK. FL. W.	8.6	40-40	73-12	244	"	"	7-17	X		"		
95 r		WEST CHANNEL LIGHTED BUOY 6	13.6	40-40	73-13	379	"	"	7-17	X		"		
H-7801		No. 1117 - FL. R.	8.9	40-41	73-13	1352	"	"	7-17	X		"		
96 r		WEST CHANNEL LIGHTED BUOY 7	8.6	40-41	73-14	185	"	"	7-16	X		"		
H-7801		No. 1118 - FL. G.	On Dock	40-42	73-14	558	"	"	5-24	X		"		
98 r		WEST CHANNEL LIGHTED BUOY 10	6.6	40-42	73-13	788	"	"	5-28	X		"		
H-7801		No. 1119 - FL. R.	2.8	40-42	73-12	449	"	"	7-24	X		"		
2 n		GREAT COVE ENTRANCE LIGHTED	10.1	40-41	73-12	1071	"	"	6-16	X		"		
H-7801		No. 1119.5 S-L. FL. W.	7.8	40-41	73-12	173	"	"	7-18	X		"		
Vol. 1p. 7		WATCHDOG CREEK	8.8	40-41	73-09	154	"	"	6-21	X		"		
H-7801		No. 1120 P. R.				149	"	"		X		"		
1 j		ORWOC CREEK												
H-7801		No. 1120.5 FL. W.												
151 v		CHAMPLIN CREEK												
H-7801		No. 1121 - QK. FL. W.												
3 n		NORTH CHANNEL LIGHTED BUOY 1												
H-7801		No. 1122 - FL. G.												
15 s		NORTH CHANNEL LIGHTED BUOY 2												
H-7801		No. 1123 - FL. R.												
76 n		NORTH CHANNEL LIGHTED BUOY 4												
H-7802		No. 1124 - FL. R.												

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

FLOATING & NONFLOATING AIDS TO NAVIGATION FOR CHARTS

TO BE CHARTED

STRIKE OUT ONE

Norfolk, Virginia

18 January, 1952

~~TO BE DELETED~~

I recommend that the following objects which have ~~not~~ been inspected from seaward ~~to determine their position and to be~~ be charted on ~~(charts)~~ the charts indicated.

The positions given have been checked after listing by

J. A. Roulier, Ens.

John Laskowski

Chief of Party.

STATE NEW YORK	Pos. No. XXXXXX NAME	DESCRIPTION	Depth in Fathoms Ft.	POSITION			METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION 1951	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED			
				LATITUDE		LONGITUDE							DATUM		
				'	D. M. METERS	'								D. P. METERS	
104 m	H-7802	NORTH CHANNEL LIGHTED BUOY 5 No. 1125 - FL. G.	14.6	40-41	758 751	73-08	737 733	N.A. 1927	Sextant	Fix	6-20	x			578
16 k	H-7802	EAST CHANNEL LIGHTED BUOY 8 No. 1126 - FL. R.	25.5	40-39	391 1638	73-11	684 677	"	"	"	6-18	x			"
29 p	H-7802	EAST CHANNEL LIGHTED BUOY 12 No. 1127 - FL. R.	11.5	40-38	1641	73-10	775	"	"	"	6-22	x			"
59 k	H-7802	EAST CHANNEL LIGHTED BUOY 15 No. 1128 FL. G.	13.8	40-39	336	73-08	703 697	"	"	"	6-18	x			"
70 g	H-7802	EAST CHANNEL LIGHTED BUOY 17 No. 1129 - FL. G.	12.3	40-39	1839 1811	73-08	233 202	"	"	"	6-12	x			"
89 1	H-7802	RANGE CHANNEL LIGHTED BUOY 3 No. 1130 - FL. G.	7.7	40-40	1102 1088	73-08	1004 980	"	"	"	6-19	x			"
30 g	H-7802	EAST CHANNEL LIGHTED BUOY 18 No. 1131 - FL. R.	—	40-38	1231 1339	73-08	63 52	"	"	"	6-12	x			"
FARM SHOALS CHANNEL															
58 w	H-7802	Farm Shoals Buoy 4 P. 727	10.2	40-38	783 779	73-12	608	"	"	"	7-10	x			"
59 w	H-7802	FARM SHOALS BUOY 3 P. 727	12.7	40-38	918	73-12	814	"	"	"	7-10	x			"
2 aa	H-7802	North Point Buoy 5 P. 727	18.0	40-38	1206	73-12	594	"	"	"	7-17	x			"
* See Dir. Ltr. of 28 June 1951 - 404 (1951), 83-cag to SupED.															

FLOATING & NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~

STRIKE OUT ONE

Norfolk, Virginia

18 January, 1952

I recommend that the following objects which have ~~not been~~ been inspected from seaward ~~to determine their value as landmarks~~ be charted on ~~(SOUNDINGS)~~ the charts indicated.

The positions given have been checked after listing by J. A. Boulier, Ens.

John Laskowski

Chief of Party.

Pos. N. NAME	STATE New York	DESCRIPTION	Depth Chart Ft.	POSITION			METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION 1951	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED		
				LATITUDE		LONGITUDE							DATUM	
				°	'	D. M. METERS								°
			WEST CHANNEL											
90 S H-7801		WEST CHANNEL BUOY 1 P. 727 1951 L.L.	14.0	40-38	1612	73-12	480	N.A. 1927	Sextant Fix	7-18	X	578		
89 S H-7801		West CHANNEL BUOY 3 P. 727 1951 L.L.	13.2	40-39	4	73-12	497	"	"	7-18	X	"		
24 S H-7802		WEST CHANNEL BUOY 4 P. 727 1951 L.L.	8.9	40-39	990 976	73-12	616 635	"	"	6-8	X	"		
93 F H-7801		WEST CHANNEL JUNCTION BUOY P. 727 1951 L.L.	10.1	40-39	1610	73-12	843	"	"	7-17-	X	"		
94 F H-7801		WEST CHANNEL BUOY 5 P. 727 1951 L.L.	13.1	40-40	99	73-12	1196	"	"	7-17	X	"		
97 F H-7801		WEST CHANNEL BUOY 9 P. 727 1951 L.L. S	11.6	40-40	1378	73-13	683	#	"	7-17	X	"		
			DICKERSON CHANNEL											
92 F H-7801		DICKERSON CHANNEL BUOY 1 P. 727 1951 L.L.	10.6	40-39	1499	73-12	1222	"	"	7-17	X	"		
116 V H-7801		DICKERSON CHANNEL BUOY 2 P. 727 1951 L.L.	8.2	40-39	1694	73-13	967	"	"	7-24	X	"		
117 V H-7801		DICKERSON CHANNEL BUOY 3 P. 727 1951 L.L.	10.3	40-39	1795	73-14	537	"	"	7-24	X	"		
118 V H-7801		DICKERSON CHANNEL BUOY 4 P. 727 1951 L.L.	6.7	40-40	597	73-14	1378	#	"	7-24	X	"		
			RANGE CHANNEL											
77 1 H-7802		RANGE CHANNEL BUOY 1 P. 728 1951 L.L.	9.4	40-39	1055	73-08	1012	"	"	6-19	X	"		

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating

~~NON~~FLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~

STRIKE OUT ONE

Norfolk, Virginia

18 January, 1952

I recommend that the following objects which have ~~(insert)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(insert)~~ the charts indicated.

The positions given have been checked after listing by J. A. Roulier, Ensign.

John Laskowski

Chief of Party.

STATE	New York	DESCRIPTION	Depth XXXX Water	POSITION			METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE	LONGITUDE							
Port No.				° ' "	D. M. METERS	° ' "	D. P. METERS					
				EAST CHANNEL				1951				
4 m		EAST CHANNEL BUOY 6	Ft.		1488		50	N. A.	Sextant			
H-7802		P. 727 1951 L.L.	13.3	40-38	1478	73-12	40	1927	Fix	7-17	x	578
20 k		EAST CHANNEL BUOY 10			1807		1116	"	"	6-18	x	"
H-7802		P. 727 1951 L.L.	22.0	40-38	1802	73-10	1111	"	"	6-18	x	"
23 k		EAST CHANNEL BUOY 11			70		874	"	"	6-18	x	"
H-7802		P. 727 1951 L.L.	20.8	40-39	63	73-10	869	"	"	6-18	x	"
34 l		EAST CHANNEL BUOY 13			58			"	"	6-19	x	"
H-7802		P. 727 1951 L.L.	17.0	40-39	65	73-09	1268	"	"	6-19	x	"
34 k		EAST CHANNEL BUOY 14			228			"	"	6-18	x	"
H-7802		P. 727 1951 L.L.	14.3	40-39	226	73-08	1356	"	"	6-18	x	"
136 n		EAST CHANNEL BUOY 16			1005		373	"	"	6-21	x	"
H-7802		P. 727 1951 L.L.	15.8	40-39	1000	73-08	360	"	"	6-21	x	"
62 k		EAST CHANNEL BUOY 19			1450		1380	"	"	6-13	x	"
H-7802		P. 727 1951 L.L.	8.0	40-40	1440	73-07	1365	"	"	6-13	x	"
64 k		EAST CHANNEL BUOY 20			1560		1161	"	"	6-18	x	"
H-7802		P. 727 1951 L.L.	8.5	40-40	1549	73-07	1134	"	"	6-18	x	"
63 m		EAST CHANNEL BUOY 22			134		796	"	"	6-20	x	"
H-7802		P. 727 1951 L.L.	9.7	40-41	122	73-07	783	"	"	6-20	x	"
				NORTH CHANNEL								
9 g		NORTH CHANNEL BUOY 3			1285		984	"	"	6-12	x	"
H-7802		P. 727 1951 L.L.	9.6	40-41	1273	73-10	974	"	"	6-12	x	"
1 n		BAY SHORE BUOY 2			838		359	"	"	6-16	x	"
H-7801		P. 727 1951 L.L.	7.1	40-42	838	73-14	359	"	"	6-16	x	"

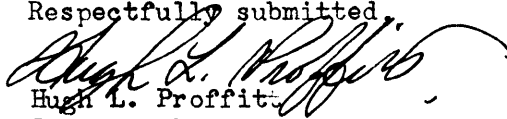
This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating

ADDENDUM
To Accompany

HYDROGRAPHIC SURVEY H-7802 (Field No. LISP-1151)

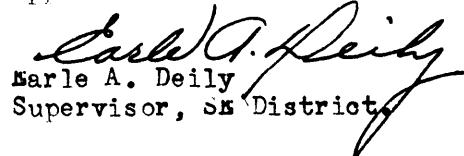
This survey was smooth plotted in the Hydrographic Section of the
Norfolk Processing Office. ✓

Respectfully submitted,


Hugh L. Proffit
Cartographer.

Norfolk, Va.
12 May 1952

Approved & Forwarded:


Earle A. Deily
Supervisor, SE District.

EHC

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~XX~~

22 May 1952

Division of Charts: R. H. Carstens

Plane of reference approved in 16
volumes of sounding records for

HYDROGRAPHIC SHEET 7802

Locality Great South Bay, Long Island

- Chief of Party: J. Laskowski in 1951
- Plane of reference is mean low water, reading
 - 2.3 ft. on tide staff at Bay Shore
 - 4.1 ft. below B. M. 1 (1933)
- 2.3 ft. on tide staff at West Fire Island
 - 5.5 ft. below B. M. 1 (1951)
- 3.1 ft. on tide staff at Great River
 - 16.0 ft. below B. M. 1 (1933)
- 2.4 ft. on tide staff at Point O' Woods
 - 6.6 ft. below B. M. 1 (1951)

~~Condition of records satisfactory except as noted below~~

Height of mean high water above plane of reference is as follows:

Bay Shore	=	0.6 foot
West Fire Island	=	0.6 foot
Great River	=	0.6 foot
Point O' Woods	=	0.7 foot

E. C. McKay
Section of Tides
Chief, ~~Division of Tides and Currents~~

GEOGRAPHIC NAMES

Survey No. H-7802

Name on Survey												
	A	B	C	D	E	F	G	H	K			
<u>New York</u> ✓											B.G.N.	1
<u>Long Island</u> ✓												2
<u>Great South Bay</u> ✓												3
<u>West Fire Island</u> ✓												4
<u>East Fire Island</u> ✓												5
<u>Clam Pond</u> ✓												6
<u>Point o' Woods</u> ✓				(village)							B.G.N.	7
<u>Widows Creek</u> ✓				(mouth plus central tributary)								8
<u>Nicoll Point</u> ✓												9
<u>Timber Point</u> ✓												10
<u>Nicoll Bay</u>												11
<u>Connetquot River</u> ✓												12
<u>Great River</u>				(town)								13
<u>Oakdale</u> ✓												14
												15
												16
												17
												18
												19
												20
												21
												22
												23
												24
												25
												26
												27

Names underlined
in red are approved.
5-27-42
L. HECK

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-7802..

Records accompanying survey:

Boat sheets .1...; sounding vols. .16...; wire drag vols.; bomb vols.; graphic recorder rolls 12. Env.; special reports, etc. .1. Smooth Sheet; 1 Descriptive Report; 1 Cahier. Velocity Corrections, filed under 7801;

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

Number of positions on sheet		2586	2586
Number of positions checked		400	
Number of positions revised		20	
Number of soundings revised (refers to depth only)		10	
Number of soundings erroneously spaced		20	
Number of signals erroneously plotted or transferred		0
Topographic details	Time	8
Junctions	Time	8
Verification of soundings from graphic record	Time	8
Verification by <i>E.L. Miller</i>		125	
Verification by <i>Gearhart</i>	Total time	127...	Date 6-26-53
Reviewed by <i>J.A. Dinsmore</i>	Time	24 hrs.	Date 11 Aug. 1953

Correction & revision of Verification by J.E. Gearhart
Total time Date

Stirn 6 hrs

DIVISION OF CHARTS
REVIEW SECTION - NAUTICAL CHART BRANCH
REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7802

FIELD NO. LISP-1151

New York, Long Island, Great South Bay

Project No. CS-337

Surveyed - April - July 1951

Scale 1:10,000

Soundings:

808 Fathometer
Hand lead, Pole

Control:

Sextant fixes on
shore signals

Chief of Party - J. Laskowski
Surveyed by - J. Laskowski and J.A. Roulier
Protracted by - W.L. Jonns
Soundings plotted by - A.G. Atwill
Verified and inked by - E.L. Miller and J.E. Gearhart
Reviewed by - T.A. Dinsmore 11 August 1953
Inspected by - R.H. Carstens

1. Shoreline and Signals

The origin of the shoreline, and signals is given in the Descriptive Report. Shoreline revisions shown in red are from present survey information.

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves are adequately delineated. The 3-ft. curve has been added to emphasize the configuration of the numerous shoals in the area.

The survey covers a portion of Great South Bay. The bottom in the bay is generally smooth and undulating except where dredging has created irregularities. The bottom in the channel on the south leading to Fire Island Inlet is extremely uneven.

4. Junctions with Contemporary Surveys

An adequate junction was effected with H-7801 (1950-51) on the west. The survey terminates at the project limits on the east. Present survey depths on the east are in harmony with the charted depths.

5. Comparison with Prior Surveys

H-44 (1834) 1:10,000
 H-45 (1834) 1:10,000
H-1198 a & b (1873-74) 1:20,000

a. These early surveys have been compared with and were superseded by the surveys of 1933 which are discussed in the succeeding paragraph. Further consideration of the early surveys is, therefore, deemed unnecessary in the present review.

b. H-5367 and H-5368 (1933) 1:20,000

These prior surveys taken together cover the area of the present survey. A comparison of the prior and present surveys reveals that some changes in bottom have taken place. Small channels leading to piers on the beach have been dredged in the vicinity of lat. $40^{\circ}38.60'$, long. $73^{\circ}11.20'$, and lat. $40^{\circ}38.60'$, long. $73^{\circ}10.77'$. A prior channel carrying depths of 5-6 ft. in lat. $40^{\circ}38.7'$, long. $73^{\circ}11.5'$, has since filled-in to present depths of 1-2 ft. The 16- and 23-ft. depressions in lat. $40^{\circ}41.80'$, long. $73^{\circ}10.15'$, and lat. $40^{\circ}38.38'$, long. $73^{\circ}11.60'$, have apparently resulted from sand dredging for beach restoration purposes. Depths of 4 and 1 ft., respectively, previously existed in the above localities.

Other examples of changes in bottom are given in the following comparison:

<u>Latitude</u>	<u>Longitude</u>	<u>Prior Depths</u>	<u>Present Depths</u>
$40^{\circ}39.65'$	$73^{\circ}08.68'$	16	10
$40^{\circ}39.88$	$73^{\circ}08.14'$	19	14
$40^{\circ}38.45$	$73^{\circ}12.35'$	8-10	4-6

Except for examples given above, only minor differences of 1-2 ft. are noted between prior and present depths elsewhere in the area.

The bottom changes in the area are attributed to both natural and artificial causes. The present survey is adequate to supersede the prior surveys within the common area

6. Comparison with Chart 578 (Latest print date 6/8/53.)A. Hydrography

Charted hydrography originates principally with the present survey after verification but prior to review.

The 1-ft. soundings charted in lat. $40^{\circ}40.35'$, long. $73^{\circ}11.78'$, and lat. $40^{\circ}39.87'$, long. $73^{\circ}07.70'$, from the present survey have been subsequently revised in depth to 3 and 4 ft., respectively.

Except as noted, no other discrepancies appear between charted and present depths.

B. Aids to Navigation

The light charted in lat. $40^{\circ}39.45'$, long. $73^{\circ}12.30'$, is from information subsequent to the present survey (H.O. Notice to Mariners No. 28, 1953.)

Buoys located on the present survey which differ appreciably from their charted positions are listed as follows:

<u>Charted Positions</u>		<u>Survey Position</u>	
<u>Latitude</u>	<u>Longitude</u>	<u>(from charted position)</u>	
$40^{\circ}41.57'$	$73^{\circ}08.44'$	350 m.	SSW
* $40^{\circ}39.11'$	$73^{\circ}08.80'$	200 m.	W
$40^{\circ}39.04'$	$73^{\circ}10.70'$	125 m.	E
$40^{\circ}38.99'$	$73^{\circ}10.89'$	125 m.	E
* $40^{\circ}38.78'$	$73^{\circ}12.20'$	140 m.	NNE
* $40^{\circ}38.61'$	$73^{\circ}12.33'$	120 m.	W
* $40^{\circ}38.50'$	$73^{\circ}12.49'$	120 m.	W

The survey positions of those buoys indicated by an asterisk more adequately mark the features intended. Otherwise the charted positions of the buoys adequately serve the purpose intended.

Except as noted above, the aids to navigation located on the present survey are in substantial agreement with the charted aids and adequately mark the features intended.

7. Condition of Survey

- a. The sounding records are complete; the Descriptive Report covers all matters of importance.
- b. The smooth plotting was well done.

8. Compliance with Project Instructions

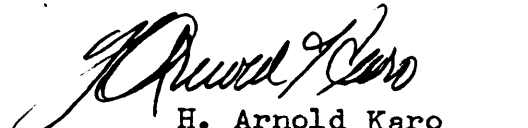
The survey adequately complies with the Project Instructions.


9. Additional Field Work

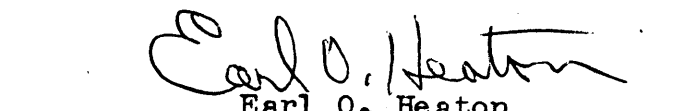
This is a very good basic survey and no further field work required.

Examined and Approved:


H. R. Edmonston
Chief, Nautical Chart Branch


H. Arnold Karo
Chief, Division of Charts


G. R. Fish
Chief, Section of Hydrography


Earl O. Heston
Chief, Division of Coastal Surveys

73° 10'

Bonema

State Hospital

Chart 1214

45'

ISLIP

TANK
E. Islip

L. I. R. R.

SAYVILLE

TANK
W. Sayville

Brown Pt

Great River

Connetquot R

Timber Pt

Green Pt

Champlin Cr

marsh

Nicoll Pt

Nicoll Bay

7802

G R E A T

S O U T H
B A Y (chart 578)

40'

40° 40'

Fire Islands

FLAG TOWER

W GAB

Sexton I

TANK

Point o' Woods

Ocean Beach

FIRE ISLAND LT
FL ev 7 1/2 sec 167 ft
vis 19M

R Bn 286
20m. 30m & 50m. 60m

Saltaire

(JOINS CHART 1215)

