7842

Diag Cht. No. 1215-3 Form 504

U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No.LISP-1250 Office No. H-7842

LOCALITY

NEW YORK

General locality SOUTH SHORE OF LONG ISLAND

Locality HEMPSTEAD BAY-REYNOLDS CHANNEL

19/4/..50

CHIEF OF PARTY

I. T. Sanders

LIBRARY & ARCHIVES

JUNE 21, 1951

B-1870-1 (1)

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-7842

Field No. LISP-1250

State	NEW YORK				
General locality	SOUTH SHORE OF L	ONG ISLAND			
Locality	HEMPSTEAD BAY - REY	NOLDS CHANNEL		·	•
Scale 1:10,000		Date of survey	28 Apr. to	16 June	1950
Instructions dated	7 Mar. 1949 & 4 Ap	r. 1950			
Vessel	. Hydro Skiff			· 	- \(\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
Chief of party	Ira T. Sanders				ه استور والسيمير المستور
	John Laskowsk				-
	Thankter graphic record				
	Field Party				***
	by Field Party				
Protracted by	B.T. Lewis				
Soundings penciled b	y B.T. Lewis				
Soundings in	feet at M	LW MANAGEM			<u>. </u>
9.	s survey was smooth				Office.
				-<	•• ••
			·		

U. S. GOVERNMENT PRINTING OFFICE 777032

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SHEET H-7842 (FIELD NO. LISP-1250)

HEMPSTEAD BAY

LONG ISLAND

NEW YORK

LONG ISLAND SHORE PARTY - IRA T. SANDERS, CHIEF OF BARTY

PROJECT CS-337

1950

SCAIE 1:10,000

PROJECT: This survey was accomplished under Instructions dated 7 March, 1949, S-2-WA and Supplemental Instructions dated 11 April 1950, FP-Long Island. These instructions called for a new basic hydrographic survey of Hempstead Bay including a definitely delineated area outside the entrance to East Rockaway Inlet.

SURVEY LIMITS AND DATES: This survey extends westward from West Long. 73 degrees 38.35 minutes to and including the seaward approaches to East Rockaway Inlet.

Field work began with the establishment of a tide gage on 28 April and sounding was completed on 16 June 1950.

A junction was made at the eastern limit with Sheet

H-7630, 1949, scale 1:10,000.

VESSEL AND EQUIPMENT: Hydrographic Skiff No. 717, propelled by two Johnson 10HP outboard gear-shift motors, was used for the whole of the survey. The party operated from a shore base. Echo soundings were obtained with fathometer number 139 SPX. The transmitter and receiver were mounted inboard.

TIDES AND CURRENTS: The tide note is attached to this report. Currents were not observed.

SMOOTH SHEET: The smooth sheet will be plotted by the Norfolk Processing Office.

CONTROL STATIONS: Existing triangulation stations were used for control. It was found necessary to re-mark several of these on account of their poor condition.

The positions of photogrammetric stations were taken

from Air Compilation Sheets T-5607, T-5611, and T-5615.(1942)

Hydrographic stations were established wherever insufficient control existed in the area. Their positions were determined by taking sextant fixes with check angles at each station site.

SHORELINE AND TOPOGRAPHY: The shoreline and topographic details were transferred from Air Compilation Sheets T-5607, T-5614 and T-5615.

(1947)

SOUNDINGS: Soundings were obtained with the fathometer, handlead and pole. The fathometer was used for most of the soundings. Pole soundings indicated greater depths than the fathometer because of the tendency of the pole to sink into the soft bottom. Bottom specimens were obtained with an armed lead or with a pole.

CONTROL OF HYDROGRAPHY: In the more open areas the hydrography was controlled by the three-point sextant fix method. In the upper reaches of channels and streams where control was lacking the positions of the sounding lines were referred to distinctive shoreline details. The proper remarks were inserted in the sounding records.

In the channel extending northward from N. Lat. 40 degrees 36.0 minutes and W. Long. 73 degrees 35.7 minutes, it is recommended that the positions and soundings for "f" day be plotted first and that preference be given them when plotting "d" day. The control for "d" day is the weaker of the two.

ADEQUACY OF SURVEY: This survey is complete and is considered adequate to supersede prior surveys. A satisfactory junction was made at the eastern limit the 1949 Sheet H-7630 (Field No. WA-1249) There are no holidays and the depth curves can be adequately drawn at the junctions.

Shortly after completion of this survey two major construction projects were started by local authorities which will affect the survey. In approximate N. Lat. 40 degrees 35.7 minutes W. Long. 73 degrees 40.7 minutes a large sewer outlet is being constructed. Four small prints supplied by the Department of Public Works, Nassau County, New York are attached and made a part of this report. The scale of these prints is very small and the details are generalized. The County Engineer has stated that this work is scheduled for completion early in the summer of 1951. It is suggested that the Supervisor, Eastern District be requested to keep in touch with County authorities or the contractor, so that any changes resulting from this construction program may be made available at the earliest date for charting.

A new bridge is being constructed over Reynolds Channel at Atlantic Beach, at approximate N. Lat. 40 degrees 35.6 minutes W. Long. 73 degrees 44.2 minutes. The required dredging has changed the hydrographic and topographic features. A blue-print from the contractor showing the major changes is included 89 47658 (Mer 1950) and made a part of this report. Bannister Creek has been filled and a new channel opened several hundred feet eastward. It was

ADEQUACY OF SURVEY: (continued)

reported that the new creek channel was dredged to minus 1/4 feet. It is assumed that this refers to Mean Sea Level datum, but the informant was uncertain on this point. The new channel is 200 feet wide. The construction of the bridge is well underway. Late in November 1950 a dredge was in operation in the vicinity of the shoal banks on the north side of Reynolds Channel, about south of Laurence Yacht Club. It is again suggested that the Supervisor, Eastern District be requested to keep in touch with the contractor concerning dredging in Reynolds Channel which affects this survey.

CROSSLINES: Crosslines required by the instructions were run during the progress of the work.

COMPARISON WITH PRIOR SURVEYS: No comparison is made with prior surveys, since a comparison in detail with a new edition of Chart 579 is included with this report.

COMPARISON WITH CHART NO. 579: (Print date 6/5/50)

	COULT MICHOOM	HTTIT OILLE	217		• • •
			Survey		_
	N. Lat.	W. Long.	Depth	Depth	Remarks.
	14. 1200	,, •	Feet	Feet	
	40-35.85	73-38.60		2.0	Bare at Low Water.
	40-35.7	73-39.1		- Wreck	Wreck removed. (found.
	40-35.65	73-39.85		2 wrecks	Recommend deletion, not
	40-35.85	73-40.23	Wreck-		Barge-bare at HW. (found.)
	40-36.1	73-40.34		Wreck	Recommend deletion, not
	40-37.9505		1.0	5•0 % ≥	-Channel closed. (found
	40-37-35	73-41.19		${ t Wreck'}$	Recommend deletion, not
	40-36.65	73-40.4	1-2	4 to 5	Silted area.
	40-35.67	73-40.42	# 投. 0	8.0-	Shoaling to northwest.
	40-35.60	73-40.99		10.0	11.0 feet 60m to NW.
	40-35-45	73-41.203	13對。0	9.0	Generally deeper, this area.
		73-43.81	Wreck		Bare at Low Water.
- 4	40-35-65	1)-4J-01	117 0017	-	

COAST PILOT INFORMATION: Coast Pilot notes have been submitted under separate cover.

AIDS TO NAVIGATION: A list of Aids to Navigation covering this L80(1951) survey area has been submitted as a separate report. A copy of the submitted list is appended to this report. Bridge clearances were measured and entered in the sounding records.

LANDMARKS FOR CHARTS: Landmarks for charts for the whole of the Project were submitted at the close of the field season.

Respectfully submitted

By direction:

John Laskowski, Commander, USC & GS.

STATISTICS TO ACCOMPANY

HYDROGRAPHIC SHEET H-7842 (FIELD NO. LISP-1250)

HYDRO. SKIFF NO. 717

Date 1950 28 Apr	Day Ltr.	Vol.No.	H.L. and pole sdgs.	No. of positions	Stat. Mi. of Sdgs.
6 June	a	1	47	58	
8 May	b	2		21	2.5
10 "	C	2 2 3 3 4 4	days dresh	75	9.8
11 "	d	2	4	51	7.0
12 "	е	3	4 3 2 16	89	8.8
15 "	f	3	3	78	7.7
16 "	g	4	2	27	1.1
17 "	h	4	16	75	7.4
18 "	j	4 & 5	320	104	11.3
19 "	k	5 & 6	448	76	8.0 16.2
22 11	1	5 & 6	wa.646	150	16.2
23 " 24 " 25 " 26 "	m	6		100	9.2
24 "	n	6 & 7	1	68	8.8
25 "	p	7	*	.78	5.8
2 6 "	q	7 & 8 8	4	75	9•4
31 "	r	8	3	56	5.6
l June	S	8		36	3.6
2 "	t	8 & 9		75	10.7
1 June 2 " 5 " 6 "	u	9	-	98	10.3
6 11	v	9 & 10		94	9.6
7 "	w	10		46	6.5
8 "	x	10 & 11	12	111	21.3
9 "	У	11		95	13.5
12 "	Z	12	12	122	18.6
13 "	aa	12		87	11.3
14 "	ba	13	11	26	1.6
15 "	ca	13	torquine.	19	1.3
16 "	da	13	13	104	10.1
TOTALS	28	13 13	900	2094	237.0

AREA IN SQUARE STATUTE MILES - 5.4

LIST OF SIGNALS

HYDROGRAPHIC SHEET H-7842 (FIELD NO. LISP-1250)

TRIANGULATION STATIONS

APEX - Lawrence, white house, cupola, apex, 1934.

BEACH - Long Beach, 1934.

BELL - Bell, 1926.

CASA - Atlantic Beach, Casa del Mar Hotel, cupola, 1931.

CITY - Long Beach, City Hall, 1926.

CLUB - Club, 1934.

EAST - Lido, East Twin Tower, 1933.

FIRE - Long Beach, Fire engine house, tower, 1926.

GAS - Long Beach, gas holder, 1926.

LONG - Long Beach, West End School, chimney, 1926.

PIPE - Long Beach, Standpipe, 1934.

ROCK - Rockville Center, Tank, 1933.

SWAMP - Swamp, 1926. VERNE - Arverne, 1940.

WEST - Lido, West Twin Tower, 1933.

YORK - Far Rockaway, New York City Dept. of Water Supply, (Standpipe, 1931.

PHOTOGRAMMETRIC STATIONS: (Selected in the field from Sheet T-5614)

END - Northwest gable, brown house.

HIS - South gable of house.

IDA - South gable, grey house, white shutters.

JAP - Southeast gable of house.

JAW - Northwest corner of bulkhead.

LOU - South gable, small white house.

MID - North gable, old unpainted house.

OAK - Center, two-story house, pointed roof.

ODD - South gable, white house, dark roof.

PET - North end of pier.

ROY - South west gable, red roof shack.

RUB - Northwest gable, white house, green trim.

SAM - Southeast corner of pier.

WHO - Northwest gable of shack.

HYDROGRAPHIC STATIONS

ART - Vol. 1, pg. 12. Temporary banner.

AMY - " 18. Center of shack.

DON - " 19. Temporary black and white tripod.

HYDROGRAPHIC STATIONS (continued)

```
North gable, white house, green roof. South gable, shack, red roof. Temporary black and white tripod.
DOG
             Vol. 1,
                            pg. 12.
OUT
                               18.
               11
                               11
                                   18.
POT
                                            Temporary barrel signal.
Temporary banner..
               11
                               11
                                   18.
SAD
                                   12.
YES
```

TOPOGRAPHIC (PHOTOGRAMMETRIC) STATIONS: Origin Station

		Origin	Station	
		Sheet No	o. No.	
ACE	-	T-5614		Stack, black steel, 50ft. high, 1947.
%ALP		- 5615		L.O. Tower, Atlantic Beach C.G. Sta. 1947.
Λ MT	-	-5614	1415	
BED	-	- 5607	0708	
BOB		-5614	1433	
\mathtt{BUT}	-	-5614	1424	
CAB		- 5614	1452	
CON	-	-5614	14,58	
CUP	-	-5614	1402	
EAT	-	-5614	1417	
EGG	-	- 5614	1432	
海IM	-	-5615		East Rockaway Inlet No. 9, 1947.
EVA		-5614	1407	•
*FEZ		-5615		East Rockaway Inlet Breakwater, 1947.
FOX	-	-5614	1410	
FRY	_	-5614		Belfry, South end, the Peoples Ch., 1934.
${ t GAL}$	-	- 56 1 5	1511	
GOB	_	-5614	1427	•
GUY	-	-5614	1423	
HER	-	-5614	1449	
HUB	_	-5607	0701	
ICE	-	-5614	ユゲナナ	
IVY	-	-561 <i>J</i> ,	1455	
$J \coprod M$	-	-5614	1442	
KEY	-	- 5614	1421	
$_{ m KID}$		-5614	1405	
LAW	-	-5614	-	Cupola, Lawrence High School, 1947.
\mathbf{IEO}	*	-5614	1404	
*IET	-	-5614		East Rockaway Inlet No. 11, 1947.
LIZ	-	-5614	1431	
LOW		-5614	1420	
NUT	-	- 5607	0705	
OIL	-	-5614	1401	
ORA	-	-5614	1425	
PAW	-	-5614	1430	•
RAT		-5614	1441	
SHE	-	-5614	1429	
SIR	-	- 5614	1456	

TOPOGRAPHIC(PHOTOGRAMMETRIC) STATIONS: (continued)

```
Peak of pyramid roof, 1934.
         T-5614
SIS
                  1413
          -5614
SKY
                          Chimney, Rhame Ave. Public School, 1947.
          -5614
*SUE
                  1409
          -5614
TOM
                  1426
          -5614
TRY
                           Chimney, west end of house, 1934.
          -5614
TUB
                  1408
VET
          -5614
          -5614
                  1434
VEX
                   1412
          -5614
WAR
                  1444
          -5614
Z00
Stations not named remains
                  0709
         T-5607
                   0710
          -5607
                   0711
          -5607
          -5607
                   0712
                   0713
          -5607
          -5607
                   0714
                   0715
          -5607
```

* Note: Recoverable topographic stations, 1947. (Described, on Form 524)

TIDE NOTE TO ACCOMPANY

HYDROGRAPHIC SURVEY H-7842 (FIEID NO. LISP-1250)

The primary tide station at Sandy Hook, New Jersey, was inspected and serviced by the ship HILGARD before hydrographic operations were undertaken.

Observations were obtained at five tide stations. Portable automatic tide gages were maintained at four of the stations. The fifth, at East Rockaway, was a staff from which heights were recorded as needed. The positions of the tide stations are shown on the boat sheet. The limits of the of the areas in which tides from the various stations were used are outlined on the sheet in ink. No differences in time or height were applied to observed tides. Planes of reference were furnished from the Washington Office. The Long Beach station was moved from its first location on the railroad trestle on acmount of excessive vibration. Both positions for this station are shown.

STATION	N. Lat.	W. Long.	MIW on staff
Atlantic Beach(C. G. Sta.)	40-35.57	73-44.45	2.1 ft.
Bay Park, Hewlett Bay	40-37.79	73-40.18	2.0 "
East Rockaway (staff)	40-38.31	73-39.60	2.3 "
Long Beach (R.R. trestle)	40-35.66	73-39.72	1.0 "
" (Pier)	40-35.65	73-39.71	2.2 "
Woodmere	40-37.26	73-41.89	1.6 "

FATHOMETER CORRECTIONS

HYDROGRAPHIC SURVEY H-7842 (FIEED NO. LISP-L250)

The corrections are based on an INITIAL of 0.0 feet on the fathograms. Where this varies the proper correction should be applied to bring the recorded depths to 0.0 feet INITIAL. All soundings have been recorded on the FOOT SCALE.

HYDRO SKIFF

All soundings(echo) obtained with

Fathometer No. 139 SPX

Correction Ft.	From To Ft.	
+ 1.6	0.0 4.6	
+ 1.4	4.7 5.8	
+ 1.2	5.9 6.8	
+ 1.0	6.9 7.8	
+ 0.8	7.9 9.1	
+ 0.6	9.2 - 18.5	
+ 0.4	18.6 27.8	
+ 0.2	27.9 37.0	
0.0	37.1 45.6	
- 0-2	45.7 Sdg. limi	t

OFFICIAL FLOATING AIDS TO NAVIGATION H-7842

Name	Lat.	<u>DM</u>	Long.	<u>DP</u>	Depth	Pos. No.	Date
East Rockaway Inlet							
Lighted Buoy "1"	40−3 5/	290m.	73 -4 6	169m.	171	5 71	12 June 1950
East Rockaway Inlet	40 75	224 - 298	70 AC	00	7. 4	F.6.4	H
Buoy (2)	40-35	-298	73– 46	99	14	56 k -	••
East Rockaway Inlet	40-35	385	73-45	1132	11 1	55z	H
Kast Rockaway Inlet	±0-00	000	10-20	1100	112	υ μ	
Buoy 4"	40-35	345	73-45	986	11	54z	H
Fast Rockaway Inlet	-0 00	0 -0					
Lighted Buoy "5"	40-35	428	73-4 5	88 9	11	52 z	Ħ
East Rockaway Inlet						V.	
Buoye #6"	40 -3 5	404	73-45	749	10	5 1 z	H
Lasto Rockaway Inlet			~~ 4=	680	201	E0	11
Buoy 7"	40-35	614	73-45	672	12]	50 z	•
East Rockaway Inlet	40-35	55 7	73-45	528	13	49z	Ħ
Buoy 8" East Rockaway Inlet	40-30	557	10-40	020	10	454	
Lighted Buoy "10"	40-35	850	73-45	175	12	25z -	Ħ
East Rockaway Inlet	10 00		. 0 20	•.•			
Gong Buoy "4"	40-34	1539	73-45	479	19	5 6da =	16 June 1950
Reynolds Channel							
Lighted Buoy "1"	40-35	880	73-43	885	12	5 8a -	9 June 1950
Reynolds Channel					- m1	p= 100	H
Lighted Buoy "3"	4 0 -3 5	816	73-42	1092	17 1	57a	•
Reynolds Channel	40 75	1610	77 70	797	19 1	17a	11 May 1950
Lighted Buoy "11	40-35	1519	73–38	151	138	110	TT WEN TOOO

FLOATING AIDS (NOT IN LIGHT LIST)

Raynolds Channel	40-35	1257	73 -4 0	709	17	3a 🕼	3 May 1950
"Can Buoy "7"	40-35	7 66	73-41	393	15½	7a	4 May 1950
("Non") Buoy "10" Reynolds Channel	40-35	823	73-45	167	10	59z 🗸	H
East Rockaway Inlet ("Cart") Buoy "5" East Rockaway Inlet	40-35	430	73-45	904	10	53z 🗸	и
Bast Rockaway Inlet (Can) Buoy "1"	40-35	298	73-46	169	16½	58z -	12 June 1950
Wast Bocksway Inlet							

LIGHTED BUOYS MAINTAINED BY NASSAU COUNTY

Description	Lat.	DM	Long.	DP	<u>Depth</u>	Pos. No.	Date
Fig. Red (Red)	40-35	1798	73-41	179		39a	17 May
Mhite (Red & Black)	40-35 40-35	1031 1425	73 <u>-4</u> 1 73-39	184 1267	10 21	40a 41a	18 May
Al Green (Black)	40-35	1412	73-39	1350	4½.	4 2a	H H
Tro Green (Black) This white (Black & Red)	40-36 40-36	787 150	73-39 73-41	818 14 0	10늘 7	43a 46a -	19 May
The Red (Red)	40-36	729	73-40	945	6 1	47a	22 May
Red (Red)	40-36 40 -37	5 32 122	73 -41 73 -4 2	668 11	5 10 }	48a 49a	23 May
Green (Black)	40-37	104	73-41	1316	8 <u>1</u> ੈ	50a	Ħ

UNLIGHTED BUOYS MAINTAINED BY NASSAU COUNTY

# Description	Lat.	DM	Long.	DP	Depth	Pos. No.	Date.
Red obl. buoy "4"	40-36	82m	73-40	218 m	7 ft.	2a	3 May
Red bbl. buoy "2"	40-35	1513	73-39	1312	6	8a -	4 May
Black bbl. buoy "1"	40-36	132	73-40	3 4 8	4 눌	9a -	#
Red bbl.buoy "2"	40-36	283	73-40	287	5	10a 🛩	H
Black bbl. buoy "3"	40-36	466	73-40	347	4	lla 🕆	u
Red bbl. buoy "8"	40-36	560	73-40	177	11호	12a	#
Black bbl. buoy "5"	40-36	7 78	73-39	1263	3	13a -	H .
Red bbl. buoy "10"	40-36	674	73-39	1109	3_	14a	11
Red bbl. buoy "18"	40-36	1157	73-40	591	3년 4년	21a -	17 May 1950
Black bbl. buoy "17"	40-36	1165	73-40	614	4 ₺	22a -	H - 750
Red bbl. buoy "16"	40-36	977	73-40	641	3	23a	11
Black bbl. buoy "15"	40-36	909	73-40	700	1 🗦	24a	H
Black bbl. buoy "13"	40-36	820	73-40	761	6	25 a	11
Red bbl. buoy "14"	40-36	788	73-40	75 5	3	26a	Ħ
Black bbl. buoy "11"	40-36	787	73-40	817	5 ફે	27a	11
Red bbl. buoy "12"	40-36	776	73-40	814	4	28a	H
Black bbl. buoy "9"	40-36 €	781	73-40	905	4	29a	11
Red bbl. buoy "10"	40-36	768	73-40	904	6	3 0a	16
Black bbl. buoy "7"	40-36	750	73-40	1034	1 월	31a	11
Library Provides	40-36	669	73-40	941	3	32a	11
Hed bbl. buoy "8" "Black bbl. buoy "5"	40-36	609	73-40	1143	0	33a	11
	40-36	512	73-40	1099	ı	348 -	Ħ
Red bl. buoy "6"	40-36	401	73-40	1331	2	3 6a –	11
Ros obl buoy "3"	40-36	342	73-40	1260	4ક	3 5a 🗸	II
Red bol. buoy "4"	40-36	250	73-41	81	$2^{\frac{7}{2}}$	37a 🐇	u
Black bbl. buoy "1"	40 -3 6	128	73-41	38	3 \ti	38a 💯	11
361. buoy "2"	40 -36	1286	73-39	32 0	45	44a	18 May
bbl. buoy "9"	40-36	1106	73-39	432	4234848	45a	H
12" buoy "12"	-20-00	7700	, , ,	-	~		

April 1945

NONFLOATING AIDS OF LANDMARKS FOR CHARTS

STI .E OUT ONE

Norfolk, Virginia

3 January 1951

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

The positions given have been checked after listing by John Las Kows K.

		CURPR.	11-7842 (1.	Teb 196f	<i></i>		I	ra T. San	dere	+		of Part
———Sb	heet 1 of 3	- Ottobal /	Halone (m	101-1K/V	POSITION			METHOD OF	DATE	CHART	INSHORE CHART OFFSHORE CHART	
STATE			LAT	ITUDE	LON	GITUDE	Depth	1 001 7101		HARBOR C	INSHORE C	CHAR'
CHARTING NAME	Hew Tork, Long Island DESCRIPTION	SIGNAL NAME	0 1	D. M. METERS	0 1	D. P. METERS	S PARTY	SURVEY No.		HAM	N O FF	
	1		_	_			16.					
1	Rockaway Inlet. Buoys maintai	ined by U. S. (Coast Gua	rd.								
950 ht List		No.	-	-		1.		Sextant	1950	+	+	
	(FL G) #1# ev. 4 sec.	57 B	40 - 35	287	\$3 - 46	169	17.4		12 June	*	+	579
	Can Hl#	58 s	10 - 35	298	73 - 46	175	17.2	-	12 June	*	++	
	Nun *2*	56 z	40 - 35	224	73 - 45	104	13.7	-	12 June	*	+	_#-
	Can #3#	55 a	40 - 35	384	73 - 45	1135	11.6	<u></u>	12 June	+	++	
	Nun %"	50 x	40 - 35	337	73 - 45	986	11.4		12 June	+		#
	(FL C) HEH ev. 4 sec.	52 B	40 - 35	428	73 - 45	889	10.6		12 June	*		
		53 E	40 - 35	430	73 - 45	908	10.0		12 June	*		#
	Can H5 ⁸	51 g	40 - 35		73 - 45		9.6	- 11	12 June	*	,	
	Nun "6"	50 g	40 - 35		73 - 45		12.6		12 June	×	,	
	Can #7 ⁿ	49 %	40 - 35		73 - 45		12.9	H	12 June	X		t
	Nun 181		40 - 35		73 - 45		11.8	#1	12 June	x		
1077	(FI. R) "10" ev. 4 sec.	25 °2 59 °x	40 - 35		73 - 45		20.4	**	12 June	x		

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

U. S. CUAST AND GEODETIC

MONFLOATING AIDS ORXIVANDIMARKS FOR CHARTS

то	BE	CHARTED	STF	E OUT	ONE
TA.	DE.	PENETED	1		

Norfolk	. Virginia

3 January 19 5

APLLEATE

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

The positions given have been checked after listing by John hastowsti

Shoot	t 2 of 3	SHEET H-7842 ((LISP-12	(0ز			I ,	ra T. Sa	nders	-		ief of Party
	2017	1			POSITION			METHOD DATE		CHART	INSHORE CHART OFFSHORE CHART	
STATE	New York, Long Island		LATI	ITUDE	LONG	SITUDE	Depth	OF LOCATION AND SURVEY	OF LOCATION	8	INSHORE C	CHART
ACKNOWNOG NOOK	DESCRIPTION	SIECHXI NACHXX	0 1	D.M.METERS	0 1	D.P.METERS	Mater	No.		HAH	NS.	
1950		Pos.					T. C.	Sextant Fix	1950	⊥'	<u> </u>	
ight List			40 - 34	1539	73 - 45		18.8	,	16 June	X	<u>, </u>	579
+	Gong "4" R Reynolds Channel. Buo									<u> </u>		
1079	(FL G) "1" ev. 4 sec.	58 a	40 - 35	-	73 - 43	879	12.2	1	9 June	×	+	*
1080	(FL G) *31 ev. 4 sec.	57 a	40 - 35	816	73 - 42	1092	17.6		9 June	x	+	
	Can #7#	7.8	40 - 35	770	73 - 41	387	15.7	, «	4 May	×	++	
	Can #9#	3 a	40 - 35	1257	73 - 40	720	16.8	3 H	3 Nats	x	++	
1084	(FL G) "ll" ev. 4 sec.	17 a	40 - 35	1517	73 - 38	3 790	19.5	5 4	11 Nay	×	++	•
	Hempstead Bay. Bucys	maintained)	by Massau	County				-		+		
,	FL W R& B	40 a	40 - 35	, 1033	73 - 41	181	10.2	2 *	17 May		++	1
	FL R R	41 a	40 - 35	5 1424	73 - 39	9 1267	21.1	1 "	1.8 May	x	+	!
	FL G B	42 a	40 - 35	5 1410	73 - 39	9 1352	2 4.4	4 #	18 May	x	-	
	FL G B	43 &	40 - 36	6 777	73 - 39	9 824	10.6	6 *	18 May	x	+	
	FL W B&R	46 a	40 - 36	6 140	73 - 41	1 143	7.2	2 #	19 May	x	<u>: </u>	

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given. U. S. GOVERNMENT PRINTING OFFICE: 1949 O - 853418

NONFLOATING AIDS ORXIVATION FOR CHARTS

то	BE	CHARTED	STRE OUT ONE
TA	we.	JOHN DWELTY	

Norfolk, Virginia

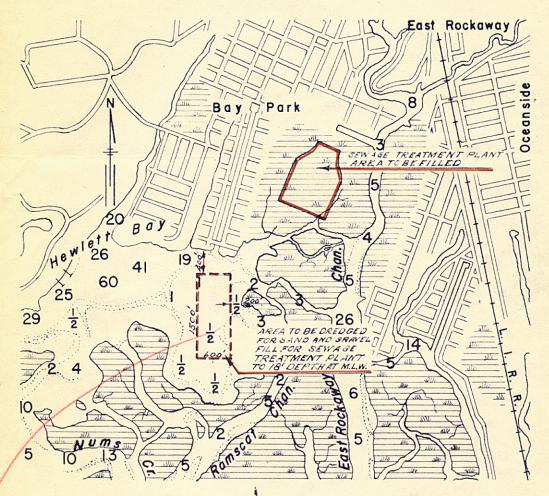
3 January

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

The positions given have been checked after listing by John has Kows K.

	3 of 3				•	!	POSITION			METHOD		1 5	HAR	
STATE				LATI	TUDE	LONG	ITUDE	Depth	OF LOCATION AND SURVEY	DATE OF LOCATION	HARBOR CHART	INSHORE CHART OFFSHORE CHART	CHAF AFFEC	
ARTING NAME		DESCRIPTION		XXXX	0 I	D.M.METERS	0 1	D.P.METERS		No.		HAR	NS O	
				Pos.					Ft.	Sextant Fix	1950	_		
	FL R	R			40 - 35	1800	73 - 41	173		**	17 Kay	x		579
	FL R	R			40 - 36		73 - 40	946	6.7	at .	22 May	x		-
	FL R	R			40 - 36		73 - 41	671	4.8	#	23 May	×		
	FL G	В			40 - 37	1	73 - 42	10_	10.6		23 May	x		#
	FL R	R			40 - 37		73 - 41	1313	8.6	. #	23 May	x		*
		•												-
			DATUM - N	A. 1927						-				-
												_		-
											, , , , , , , , , , , , , , , , , , , ,			-
													-	-

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given. U. S. GOVERNMENT PRINTING OFFICE: 1949 O - 853418



SOUNDINGS ARE IN FEET AND REFER TO MEAN LOW WATER.

SCALE: 1"= 1650'
500 1000 2000 4000 6000 FT.

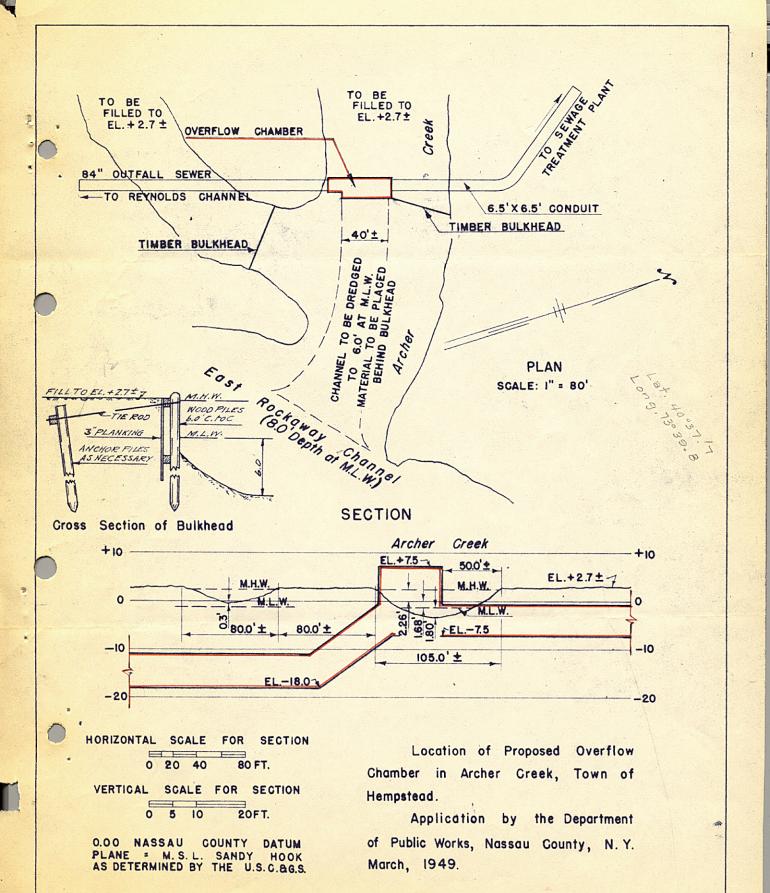
Location of Proposed Area to be Dredged in Hewlett Bay, Town of Hempstead, Nassau County, New York.

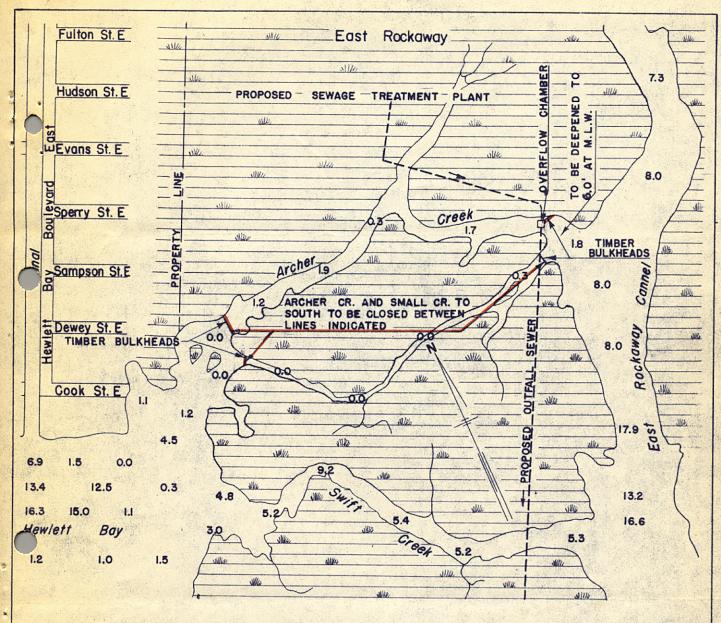
Application by the Department of Public Works, Nassau County, New York.

March 1949

Dredging in Herolett Bay Completed prior to the Surbey of 1950

by dis graftin





SOUNDINGS ARE IN FEET AND REFER TO MEAN LOW WATER

PROPOSED CLOSING OF NONNAVIGABLE CREEKS IN CONNECTION WITH CONSTRUCTION OF PROPOSED OUTFALL SEWER.

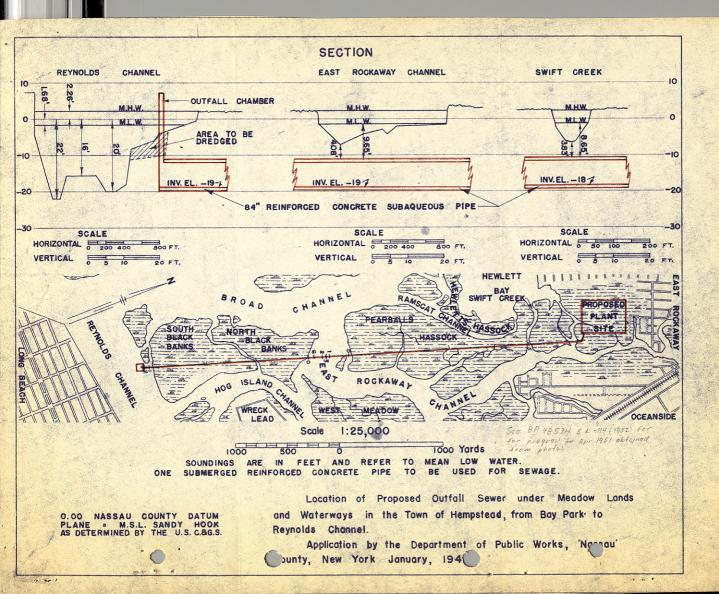
SCALE IN FEET

O 50 100

SOURCE TO THE WORKS, NASSAU COUNTY,

APPLICATION BY THE DEPARTMENT OF PUBLIC WORKS, NASSAU COUNTY, NEW YORK.

MARCH 1949



APPROVAL SHEET

T O

ACCOMPANY

DESCRIPTIVE REPORT

FOR

SHEET H-7842

PROJECT CS-337

1950

I certify that frequently (3 or more times weekly) I examined and approved the boat sheet and other records for this survey. The smooth sheet will be prepared by the Norfolk Processing Office.

So far as could be determined from the boat sheet this survey was considered complete and adequate, and no additional work was indicated. Attention is directed to the Descriptive Report for information concerning construction projects now in progress in this area, and recommendations concerning them are re-emphasized here.

For a general description of the terrain covered by this survey reference is made to the Field Inspection Report, Project Pn-54(49)c dated January 1950.

Ira T. Sanders

Chief of Party.

HYDROGRAPHIC SURVEY H-7842 (Field No. LISP-1250)

GENERAL

There are many instances where the current survey differs considerably from chart 579. These differences are apparently caused by extensive dredging activities and the shifting of shoals by atrong currents.

The following are some of the more noticeable differences:

Lat. 40-35.59 9 ft. shoal building in a southerly direction Long. 73-44.10

Lat. 40-35.45 $\frac{7}{92}$ ft. shoal shifted to eastward 150 meters Long. 73-42.62

Lat. 40-37.10 Charted channel does not exist Long. 73-41.79

Respectfully submitted

Hugh L. Proffitt (

Norfolk, Va. 18 June 1951

Approved & Forwarded:

Earl O. Heaton Supervisor, SE District.

ily Earle a flerly

TIDE NOTE FOR HYDROGRAPHIC SHEET

28 June 1951

DIVISION OF HUDGENSUBARY YARDAY TOPOSE ANHA

Division of Charts: R. H. Carstens

Plane of reference approved in 13 volumes of sounding records for

> HYDROGRAPHIC SHEET 7842

Locality: Hempstead Bay, Long Island

Chief of Party: I. T. Sanders in 1950 Plane of reference is mean low water, reading 2.1 ft. on tide staff at Atlantic Beach, Far Rockaway 11.9 ft. below B. M. 2 (1927)

2.0 ft. on tide staff at Bay Park, Hewlett Bay

7.4 ft. below BM 1 (1950)

2.3 ft. on tide staff at East Rockaway

14.6 ft. below BM 1 (1927)

1.6 ft. on tide staff at Woodmore

10.2 ft. below BM 3 (1927)

7

1.0 ft. on tide staff at Long Beach (L.I.R.R.) Trestle) 7.3 ft. below BM LONGBEACH 1 (1932)

2.2 ft. on tide staff at Long Beach (Pier)

7.3 ft. below BM LONG BEACH 1 (1932)

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

Atlantic Beach = 4.1 feet Bay Park ± 3.9 feet E.C. McKay East Rockaway = 3.9 feet Woodmere = 3.9 feet

Long Beach = 3.9 feet Chief, Division of Tides and Currents. (Trestle)

Long Beach (Pier) 3.9 = #= feet

	GEOGRAPHIC NAMES Survey No. H-7842	00 40 01	Ho. Or O	S. Wood Aron	loco ide	OCO Maga	Cide of Mo	A REPORT SOL	, jš
	Name on Survey A	or $40 \circ 1$	C \ \(\oldsymbol{C} \)	/ _D	E C	F /	G	/H /K	
	New York		(tox	tit	e)			usu	K 1
-	Long Island			.,				•	2
~ (; ·	Hampstead Bay								3
*	/								4
	East Rockaway Inle	<u>+</u>							5
	Reynolds Channel			ν				484	<u>6</u>
	Bannister Creek	<u>.</u>		/				- 4	7
٠.	Post Lead								8
	Crooked Creek								9
	Browevere Bay			~					10
	Woodmere Chin	ه ا							11
-	Woodsburgh Cha.	ruel_						·	12
-	Macy Channel								13
:	Hums Channel		,	V					15
.*	Broad Channel		¥(=	ce le	och s	ride)			16
	Swift Creak					/			17
•	Hon Island Chai	nnel		/					18
4.	Lido Canals	()	1						19
	Island Park		wn/	/					20
	Barnums Chann)		/					21
,	Barnums Chann East Rockaway	Chan	101	1					22
	Fortity Creek	- stores				,			23
	Ramscat Chanr	J.		N	mes	und	rlin	ed in r	ed 24
	Hawlett Bay		V	a		bbro		6-27-	57 - - - - - - - - - - - - - - - - - - -
	Sted Creen au	e bock a	Let X		vater.	rays	with	20 und	ings 26
	Reed Channel			ave	nes	med.	ther	Featur	ES 27
,			,	CAN	bet	hVer	n fr	fon ch. 5	M/234

to both names Sled Creek and Swift Greek are control from the smooth sheet because of conflicting information, the latest CGGS names survey places the two names as shown on T-5614; later information by the corps of Engineers, and filed in this Descriptive Report, shows only one of the name and is in conflict with the CGGS names survey.

R.E.E. 1-29-54

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO.

Records accompanying survey:							
Boat sheets .1; sounding vols3; wire drag vols;							
bomb vols; graphic recorder rolls '3 env.;							
special reports, etc. / Descriptive Report.;	Smooth Sheet						
• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •						
The following statistics will be submitted wirepher's report on the sheet:	th the cartog- Prelim. Final Verification Verification						
Number of positions on sheet	2094						
Number of positions checked	53 201						
Number of positions revised							
Number of soundings revised (refers to depth only)	// 20 •••••						
Number of soundings erroneously spaced	16 50						
Number of signals erroneously plotted or transferred	• • • • •						
Topographic details	Time 18hr. 36hr.						
Junctions	Time 2hr. 16hr.						
Verification of soundings from graphic record	Time 15 hr. 50 hr.						
Preliminary Verification W. Werline 200 hr. Verification by W. Werline 414 hr. Total time	3-28-52 614 hr. Date 9-30-53						
Reviewed by R.E.Elkins Time	79 hr. Dete 4-25-52						
Review Addendum R.E.Elkins	24 hr. 12-28-53						

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7842

FIELD NO. LISP-1250

New York, Long Island, Hempstead Bay - Reynolds Channel
Project No. CS-337

Surveyed in April - June, 1950

Scale 1;10,000

Soundings:

Control:

808 Fathometer Handlead Sounding Pole Sextant fixes on shore signals

Chief of Party - I. T. Sanders
Surveyed by - J. Laskowski and M. E. Natto
Protracted by - B. T. Lewis
Soundings plotted by - B. T. Lewis
Preliminary Verification by - W. Werline
Verified and inked by - W. Werline
Reviewed by - R. E. Elkins, 21 May 1952
Inspected by - R. H. Carstens

1. Shoreline and Control

The source of the shoreline and control is given in the Descriptive Report.

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves were adequately delineated.

The survey covers a marsh area marked by numerous channels and connecting canals. The sand and mud bottom is lumpy as the result of scouring, silting and dredging.

4. Junctions with Contemporary Surveys

An adequate junction was made with H=7630 (1950) on the east. There are no contemporary surveys to the west.

5. Comparison with Prior Surveys

A. H-47 (1835) 1:40,000 H-54 (1840) 1:20,000 H-129 (1849) 1:10,000 H-1538 (1877) 1:5,000 H-1437 (1879) 1:10,000 H-4792 (1927) 1:10,000 H-4793 (1927) 1:10,000 H-4794 (1927) 1:10,000

These prior surveys have been superseded by H-5731 (1934) and H-5732 (1934), and are considered in the reviews of those surveys. Further consideration is deemed unnecessary in the present review.

B. H-5731 (1934) 1:10,000 H-5732 (1934) 1:10,000

The present survey covers the area of H-5732 and the west part of H-5731. A comparison between H-7842 and these prior surveys discloses many changes from both natural causes and dredging. The channel of East Rock-away Inlet has shifted northwest about 900 meters. In Rock-ablds Channel many prior shoals have deepened 2 to 5 ft. In the channel deeps, however, sedimentation has decreased depths as much as 15 ft.; as for example in lat. 40° 35.4′, long. 77° 41.7′ where a present depth of 18 ft. falls in prior depths of 31 to 37 ft. In the upper reaches of the waterways, silt and sand deposits have closed some channels; in other channels, scouring action and dredging have increased channel depths 2 to 3 ft.

The following critical soundings in Reynolds Channel charted from H-5731 and H-5732 are in areas where the bottom has changed and should be disregarded:

Charted Depth (ft.)	Latitude	Longitude	Present Depth (ft.)
10	40° 35.40°	73° 42.80	12 √
12	400 35.401	73° 41.23°	18
9	400 35.451	730 41.21	13
10	40° 35.60°	73° 40.99 *	17
8	400 35.671	730 40.421	11
9	400 35.72	73° 39.50	. 19

The following wrecks charted from H-5731 were not found on the present survey and are recommended for deletion by the hydrographer. These wrecks are considered to be nonexistent.

	Latitude	Longitude
wreck	40° 35.68°	73° 39.08°
wreck	40° 35.65°	73° 39.82°

	Latitude	Longitude
wreck	40° 35.65 °	73° 39 •931
wreck	40° 36.13°	73° 40.31°
wreck	40° 37•38'	730 41.151

The development of the eastside of the channel in the vicinity of lat. 40° 37.2', long. 73° \$9.23' was prevented by barges moored along the bulkhead. A supplementary sounding has therefore been carried forward from H-5731 to show the continuity of the channel. No change in depths are noted in this vicinity since the time of the prior survey. With this addition the present survey is adequate to supersede the prior surveys within the common area.

Comparison with Chart 579 (latest print date 7/23/51)

Α. Hydrography

The charted hydrography originates principally with the previously discussed prior surveys, supplemented by soundings from miscellaneous surveys of the Corps of Engineers and chart letters. Except for soundings in East Rockaway Inlet charted from a Corps of Engineers survey of September 1950 (Bp. 47284) the present survey is adequate to supersede charted soundings from these miscellaneous sources in this changeable area.

Attention is directed to the major construction projects started after completion of the present survey. These projects altering channel conditions are outlined on page 2 of the Descriptive Report.

The group of piles on the present survey in lat. 40° 35.48°. long. 73° 44.97° fall on the position of the submerged breakwater piles charted from BP. 31952 (1938) charted 70 meters to the west was not located on the present survey and is apparently nonexistent.

The piles charted in lat. 40° 37.41°, long. 73° 41.62° from T-4225 (1926) are not shown on the present survey and ere considered to be nonexistent.

в. Aids to Navigation

Except as noted below, the charted aids are in substantial agreement with the present survey and adequately mark the features intended:

The buoys shown on the present survey marking the channel of East Rockaway Inlet are not charted because they are frequently shifted in position.

- 2. The gong buoy 4 in lat. 40° 34.88°, long. 73° 45.32° on the present survey is 100 meters south of the charted position. Either the charted or the survey position adequately mark the feature intended.
- 3. The <u>unlighted buoy 2</u> charted in lat. 40° 35.42¹, long. 73° 43.38¹ and <u>lighted buoy 5</u> charted in lat. 40° 35.42¹, long. 73° 41.78¹ are not shown on the present survey. These buoys were apparently not on their stations at the time the survey was made.
- 4. Lighted bouy 3 on the present survey in lat. 40° 35.48°, long. 73° 42.78° is 70 meters south of its charted position. The survey position more adequately marks the north limit of the channel.
- 5. Buoy 7 in lat. 40° 35.40°, long. 73° 41.40° and buoy 9 in lat. 40° 35.72°, long. 73° 40.55° on the present survey are 150 meters east and 100 meters southeast respectively of the charted positions. The survey positions more adequately mark the feature intended.
- 6. The numerous unlighted buoys on the present survey marking the channels north of Reynolds Channel are not charted. They are privately maintained by the town of Hempstead and are subject to frequent change.
- The charted lighted aids marking the entrances and channels north of Reynolds Channel, are privately maintained by the town of Hempstead, and are in agreement with the present survey except as follows:
- 7. The <u>lighted buoy</u> shown on the survey in lat. 40° 36.43°, long. 73° 39.58° has been subsequently shifted 300 meters northeast and is charted in accordance with Bp. 47639 of 1951.
- 8. No survey positions are shown on the present survey for the <u>fixed light</u> charted in lat. 40° 35.60°, long. 73° 41.22° and the <u>fixed light</u> charted in lat. 40° 36.33°, long. 73° 40.68°.

C. <u>Dredged Channels</u>

The controlling depths of channels charted in lat. 40° 37.32°, long. 73° 41.74° and in lat. 40° 36.00°, long. 73° 41.15° originate with Bp. 32879 (1938) and Bp. 32878 (1938) respectively, and are superseded by depths shown on the present survey. These channels have shoaled as much as 8 ft. since the prior surveys were made.

7. Condition of Survey

- The sounding records and Descriptive Report are complete and comprehensive.
- Preliminary verification discloses no inadequacies in the smooth plotting.

Compliance with Project Instructions 8.

The survey adequately complies with the Project Instructions.

Additional Field Work Recommended 9.

This is a good basic survey and no additional field work is recommended.

Chief, Nautical Chart Branch

Chief, Section of Hydrography

Examined and approved:

H. Arnold Karo

Chief, Division of Charts

Chief, Division of Coastal Surveys

Addendum to Review

H-7842 (1950)

Verified and inked by - W. Werline Review Addendum - R. E. Elkins 12-28-53 Inspected by - R. H. Carstens

The verification of this survey has been completed. Soundings and depth curves are now inked, and junctional soundings have been transferred.

Junctions with Contemporary Surveys

No contemporary surveys join the present survey on the west at East Rockaway Inlet; however, present depths are in adequate agreement with charted depths.

Comparison with Chart 579-A (Print date 11-2-53)

The charted hydrography is from the present survey after verification, and several later surveys and construction plans by the Corps of Engineers. Channel conditions existing at the time of this survey have since been altered by construction projects and continual dredging in several areas.

The charted information originating with the present survey is not affected by the minor changes made on the smooth sheet subsequent to verification and chart application.

Condition of Survey

Completion of the verification reveals that the smooth plotting was well done.

Approved by:

H. A. Karo

Chief, Division of Charts

NAUTICAL CHARTS BRANCH

SURVEY NO. H-7842

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
11/5/51	1215	Pisegani	Examined only - not applied. Before After Verification and Review
8/1/52	542	MELLIAC SWEN	Fartial Batter Verification and Review
8/12/52	579	M. Evans	Pre/:minary Before After Verification and Review
20 afr. 53	579	Hemae Ewen	Before After Verification and Review revision.
July 53	1215	Everett	Before Adderfixomined. No Before Adderfixomined. No
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.