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Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

E. Lester Jones, Director

C. D. MEANEY

L. & A.

APR 18 1929

Acc. No.

State: New York

DESCRIPTIVE REPORT

Topographic  
Hydrographic

Sheet No. A. 4407

LOCALITY

Jamaica Bay, Long Island

1928

CHIEF OF PARTY

C. D. Meaney

Descriptive Report  
to Accompany  
Topographic Sheet # 4407

Instructions.

In accordance with instructions dated August 6, 1928, and supplemental instructions dated October 16, 1928, a topographic revision survey of the western part of chart 542 in Jamaica Bay was made during 1928.

General Description of the Coast.

The coast line is low. The area surveyed is made up of low sand dunes, filled ground, and marsh. New developments are under way, the most important of which is a new municipal airport on Barren Island.

Land Marks.

Land marks for charts are on a separate form attached to this report, one copy of which was forwarded direct to the chart division.

Character of Control Used.

The topography was controlled by triangulation stations in (1920), Church Cross (1919), Belfry (1919), Roxburg Tank (1919), C.G. #92 (1919), Hospital Tank (1919), Belle Harbor Church (1903-08), Barren Island Concrete Chimney (1920), Mill Basin Brick Chimney (1920), Mill Island (1903-08) and Canarsie Light (1920).

Survey Methods.

Except for short traverses which required adjustments of less than seven meters, the topography was controlled by three point fixes.

Changes.

The area covered by this survey is subject to both natural and artificial changes.

In the vicinity of Rockaway Point it was noted that the beach has been washed away. At Point Breeze and west of Point Breeze on Plumb Island beach erosion has taken place.

Plumb Beach Channel has been dredged, islands in the channel have been removed, the shoreline has been changed by dredging and filling while parts of the marsh lands have been filled.

In the vicinity of the Naval Air Station, the topography was revised to show existing conditions.

Shoreline adjacent to Gerritsen Inlet, Gerritsen Creek, Mill Creek, Deep Creek, and Dead Horse Creek required revision due to both natural and artificial changes.

The shoreline along the south, east, and north coasts of Barren Island were revised to show existing conditions. New docks have been built along the south coast of Barren Island, the ferry ships have been enlarged, and ruins of old docks were surveyed. Along the east coast of Barren Island the present chart shows a bulkhead with a few strips of marsh. This shoreline was revised to show existing conditions. Along the north shore of Barren Island and in Irish Channel changes were surveyed to show existing conditions. At the time of the survey the site for the Municipal Airport was being filled.

In Mill Basin about 300 meters west of signal Ro, a marshy island shown on chart 542 has been removed by dredging. Two creeks marked closed on chart 542 are now filled. Numerous details of the shoreline not shown on chart 542 were surveyed.

The shoreline in the vicinity of Bergen Beach and Canarsie including Fresh Creek required considerable revision. The shoreline of Fresh Creek shows very little resemblance to the shoreline shown on chart 542. The depth of water in this creek gives support to the statement of a local person that this creek had been dredged for the purpose of affording better sewage disposal. In dredging, the old channel evidently was not followed.

The topography in the vicinity of Canarsie Pol has been changed by dredging and filling. A large sandy island now blocks Big Channel and covers five marshy islands shown on chart 542.

A marshy island was located about 200 meters east of signal "Blak". A similar island is shown on chart 542 about 200 meters west of the island located on sheet 1, 1928, survey. This island no longer exists.

Several double lines of piling connected by horizontal planks on which pipes were laid for dredging and marked cribbing were located. These are not shown on chart 542.

Six dolphins and a single pile were located south of Barren Island which are not shown on chart 542.

During the progress of the surveys buoys in the vicinity of the shoreline surveyed were located with a planetable alidade. Subsequent to the topographic survey and before the hydrography was

completed, a lighthouse tender changed several of the buoys and shifted the position of some of them. For the latest information regarding the location of these buoys the hydrographic sheet should be consulted.

#### Character of Marshes

The marsh lands surveyed in 1928 are covered on spring high waters. Although much of the marsh is soft, a place is generally available where a planetable may be set on reasonably solid ground.

#### Planetable Positions

A list of planetable positions used for hydrography accompany this report and are separate from a list of positions for land marks for charts.

Respectfully submitted.

  
C. D. Meaney, Lieutenant,  
U. S. C. & G. Survey.

List of Topographic Stations  
Used for Hydrography

Station	Latitude		Longitude	
Tower	40° 39'	298	73° 54'	539
Dog	40 39	864	73 53	1496
Brick	40 39	393	73 53	582
Lon	40 38	1224	73 53	293
Nel	40 38	1011	73 52	735
Jane	40 38	1439	73 51	1367
Sam	40 38	300	73 52	909
White	40 38	(66)	73 52	1340
Spire	40 38	637	73 54	230
School	40 38	195	73 53	1257
Cup	40 37	1662	73 53	636
Mery	40 37	1491	73 53	30
Aiv	40 37	1415	73 53	420
Can	40 37	716	73 53	1174
Mad	40 37	560	73 53	1390
Yel	40 37	117	73 53	1210
Wire	40 36	1587	73 54	210
Beth	40 37	01	73 54	639
Til	40 36	1403	73 54	1208
Coke	40 36	1242	73 55	44
Pen	40 36	1260	73 54	763
Snub	40 36	457	73 54	1370
Ro	40 36	417	73 54	22

Station	Latitude		Longitude	
Lew	40° 36'	731	73° 53'	1268
Home	40 36	728	73 53	995
Slane	40 35	1154	73 53	1289
My	40 35	1785	73 52	1245
Su	40 36	840	73 52	1150
Black	40 37	255	73 53	190
Pol	40 37	129	73 52	1081
Tank	40 35	88	73 53	347
House	40 35	385	73 53	1289
Pole	40 35	539	73 54	559
Sid	40 35	244	73 54	560
Bing	40 35	812	73 54	1128
Bim	40 35	496	73 54	1248
Tal	40 35	656	73 55	448
Cat	40 35	951	73 55	692
Vane	40 35	1210	73 55	1143
Cow	40 35	958	73 55	1282
Round	40 35	690	73 55	1379
Pete	40 35	563	73 55	1215
Jim	40 35	33	73 55	598
Snap	40 35	182	73 54	1313
Short	40 35	672	73 55	445
Did	40 37	153	73 55	991
Gen	40 36	25	73 51	1269
Try	40 37	916	73 54	283
Near	40 34	1723	73 52	1101

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

# LANDMARKS FOR CHARTS

Washington, D. C.

March 27, 1929

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

*C. D. Heaney*  
C. D. Heaney

Chief of Party.

DESCRIPTION	POSITION					METHOD OF DETERMINATION	CHARTS AFFECTED		
	Latitude		Longitude		Datum				
	°	D. M. meters	°	D. P. Meters					
✓ Steel frame of signal tower	40	39	298	73	54	539	NA	Top.	1215, 542
✓ Chimney	40	39	393	73	53	582	NA	Top.	1215, 542
✓ Church Spire	40	38	637	73	54	230	NA	Top.	1215, 542
✓ Chimney of Schoolhouse	40	38	195	73	53	1257	NA	Top.	1215, 542
✓ Red cupola	40	37	1662	73	53	636	NA	Top.	1215, 542
✓ Center Yellow House	40	37	117	73	53	1210	NA	Top.	1215, 542
✓ Southern of two Radio / (towers)	40	36	1587	73	54	210	NA	Top.	1215, 542
✓ Northern of two radio towers	40	36	1616	73	54	227	NA	Top.	1215, 542
✓ Highest chimney Mill Basin	40	36	1484.5	73	54	1161.1	NA	Train.	1215, 542
Chimney	40	36	1403	73	54	1208	NA	Top.	1215, 542
✓ Steel Hoisting Frame Work	40	36	1242	73	55	44	NA	Top.	1215, 542
✓ Center Concrete Elevator	40	36	457	73	54	1370	NA	Top.	1215, 542
✓ Weather Vane on Cupola	40	35	1210	73	55	1143	NA	Top.	1215, 542
✓ Church Spire	40	35	951	73	55	692	NA	Top.	1215, 542
✓ Apex of Red Pumping Station	40	35	690	73	55	1379	NA	Top.	1215, 542
✓ Higher of Two Tanks	40	35	656	73	55	448	NA	Top.	1215, 542
✓ Smaller of Two Tanks	40	35	672	73	55	445	NA	Top.	1215, 542

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaves and like objects are not sufficiently permanent to chart.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Washington, D. C.

March 27, 1929

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

*C. D. Meaney*  
C. D. Meaney

Chief of Party.

DESCRIPTION	POSITION						METHOD OF DETERMINATION	CHARTS AFFECTED
	Latitude			Longitude				
	°	'	D. M. meters	°	'	D. P. Meters		
✓ Water tank	40	35	86	73	53	347	NA	Top. 1215, 542
✓ Concrete Chimney	40	35	59.2	73	52	936.5	NA	Trian. 1215, 542
— Iron Stack	40	34	1360.9	73	53	306.2	NA	Trian. 1215, 542
✓ Cross on Church Spire	40	33	1291.5	73	54	1086.6	NA	Trian. 1215, 542
✓ Belfry	40	33	1253.4	73	54	909.7	NA	Trian. 1215, 542
✓ Tank, smaller of two	40	34	0.4	73	53	724.8	NA	Trian. 1215, 542
✓ Coast Guard Cupola	40	33	1451.5	73	52	1208.5	NA	Trian. 1215, 542
✓ Belle Harbor Church Spire	40	34	1049.0	73	50	1299.7	NA	Trian. 1215, 542
✓ Center of House	40	36	25	73	51	1269	NA	Top. 1215, 542
✓ Chimney	40	37	153	73	55	991	NA	Top. 1215, 542
✓ School House Chimney	40	36	1531	73	55	1181	NA	Top. 1215, 542
✓ Stack	40	34	1723	73	52	1101	NA	Top. 1215, 542

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Form 537a

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY  
L. & A  
APR 8 1929  
Ac.

REG. NO. 4407

TOPOGRAPHIC TITLE SHEET

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

Field Letter A

REGISTER NO. **4407**

State New York

General locality Long Island

Locality Jamaica Bay, West Portion

Scale 1:10,000 Date of survey Aug. - Dec., 1928

Vessel Launch MARINDIN

Chief of Party C. D. Meaney

Surveyed by C. D. Meaney and R. C. Bolstad

Inked by C. D. Meaney and R. C. Bolstad

Heights in feet above \_\_\_\_\_ to ground to tops of trees

Contour Approximate contour Form line interval \_\_\_\_\_ feet

Instructions dated August 6 and October 16, 1928

Remarks: \_\_\_\_\_