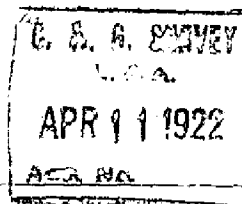


3913



Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: *New York*

11-5613

DESCRIPTIVE REPORT.

Topo Sheet No. *3913*

LOCALITY:

North shore of Long Is.
Oak Neck Point to
Fox Point

1922

CHIEF OF PARTY:

K. T. Adams

Descriptive Report to Accompany

Topographic Sheet. **3913**

North Shore of Long Island - Oak Neck Point to Fox Point.

This survey was done under Instructions dated March 24, 1922.

General Description of Coast.

The point at Oak Neck is about 45^{ft} above mean sea level and this bank or cliff extends half way to Fox Point, at varying heights, none greater than that at Oak Neck Point. From there westward the coast is flat to Fox Point where again there is a slight bank.

Scattered boulders, awash and sunken, extend off Oak Neck Point about 200 meters; off Fox Point for slightly more than 100 meters; and at a point 1/3 mile east of Fox Point, for slightly less than 100 meters. In other places the beach is composed of sand and cobblestones.

Local Description of the Coast.

In the immediate vicinity of Oak Neck Point the bank is steep and shows evidence of recent wearing away. The description of ~~triangular~~ Oak Neck No. 3, established in 1918, says it is located six meters from the top of the bank, in a N. E. direction from station. This bank is now only four meters away.

A retaining wall was built around Oak Neck Point in 1902. This is demolished completely now at the point and the remains of this wall were located as the high water line.

From the point just west of Oak Neck Point, west to the breakwater (230 meters west of ~~A~~ Windmill) the bank shows no evidence of wearing away, and it is probable that the breakwaters and jetties built along here are at least protecting it, if not causing the beach to build up. Breakwaters, jetties and retaining walls are frequent in this stretch.

From the breakwater (230 meters west of ~~A~~ Windmill) west for 150 meters the banks show evidence of much recent wearing away. The bank has even fallen away right underneath some of the houses.

From here west is a gently sloping sand beach. One stretch of a slight indication of a bank in the sand has been located some 200 to 500 meters east of Fox Point.

Fox Point shows evidence of wearing at a more remote period.

Local Features.

The four boulders (shown as rocks awash) off Oak Neck Point are actual locations. Many other rocks are in this vicinity both awash and sunken. These four rocks are the last to disappear as the tide rises. The outer rock is the outermost rock which bares at low tide.

The three boulders near Fox Point (one inside the H W L and the other two between the H W L and the L W L) are conspicuous among other boulders and can be easily recognized by the description (see P.T. positions).

The buildings just east of Fox Point are the bath houses of the Piping Rock Club. The large building 1100 meters east of Fox Point is the Bayville Bath house (a concrete building).

Local Information.

A man who has lived on Oak Neck Point for thirty five years informed me that the bank had worn away 75 feet during that time and is still wearing away.

A man living at Fox Point claims that 14 feet was worn off the bank in one storm 13 years ago. Since that time it has not worn away.

Survey Methods.

The usual plane table and stadia methods were used, but with extreme care and accuracy. The entire distance was run twice as a check.

The high water line was determined by observing in the Tide Tables when the tide was at Mean High Water and following the tide line which was left on the beach.

The low water line was rodged in, but of course in some places this should be farther out due to the party not being in that vicinity at exactly low water.

The storm high water line was located and is the innermost line of sanded area. Of course in places the storm and high water lines are identical.

The top and bottom of the bank were located. The top is indicated by a full black line and the bottom by the offshore end of the cliff symbol.

All local features shown, as breakwaters, jetties, retaining walls, and houses, were actually located. Nothing was sketched in.

Sections of two macadam roads were located as points of reference. In addition, along one road, the line of telephone poles was located.

Houses were located without reference to porches, that is, the main body of the house only was located.

In addition to the topographic sheet, several direct measures were taken which are attached to this report on a separate sheet.

Respectfully submitted

K.T. Adams

H. & G. Eng.

Chief of Party

List of Actual Measured Distances.

The top edge of the bank is	Taped distance.		
	6.41 meters	N (true)	from ΔOak Neck No. 3.
	11.83 "	NW (true)	" " " "
	4.47 "	NE (true)	" " " "
	20.35 "	NW (true)	" flagpole (150 meters west of ΔWindmill.)
	17.43 "	N (true)	from flagpole (150 meters west of ΔWindmill.)
The mean H.W. line is	22.8 "	N (true)	from N.W. corner of group of concrete bath houses 200 meters east of Fox Point.
	22.5 "	N (true)	from N.E. corner of group of concrete bath houses 200 meters east of Fox Point.
	17.0 "	S (true)	from Boulder No. 1. Fox Point.
	30.9 "	N (true)	from N. W. corner of Bayville concrete bath house.
The top edge of the bank is	13.7 meters	NE (Mag)	from Flagpole near ΔOak Neck No. 3.
	16.25 "	N (Mag)	" " " "
	22.75 "	E (Mag)	" " " "
	8.4 "	N (true)	from Flagpole (Fox Pt.)
	6.3 "	NW (true)	" " " "
	10.15 "	W (true)	" " " "

Stadia distances.

The mean H. W. Line is	35½ meters	N.W. (true) from N.W. corner of Bayville Bath House.
	52½ "	N.E. " " " " " "
	30 "	W. " " Flagpole Fox Point.
	18 "	N.W. " " " "
	21½ "	N. " " " "
The top edge of the bank is	57 "	N.E. " " " "
	31½ "	N.E. (true) from Flagpole (Fox Point).
	23½ "	N. (Mag) from N.W. corner of house (540 Meters west of Bayville Bath House).
	25½ "	N. (Mag) from N. W. corner of house (450 Meters west of Bayville Bath House.)
	86 "	N. 4°E (Mag) from first telephone pole on eastern end of straight stretch of macadam road which parallels the beach in the vicinity of the Bayville Bath House.
	78 "	From seaward edge of macadam road on same line as above

Taped distance.

The flagpole (Oak Neck Pt) is 19.16 Meters N. 52°E (true) from Δ Oak Neck No. 3.

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO. 4-DEM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

November 4, 1924.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 3913

Oak Neck Pt. to Fox Pt., Long Island, New York.

Surveyed in 1922

Chief of Party, K. T. Adams.

Surveyed and inked by K. T. Adams.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of the survey conform to the requirements of the General Instructions.
3. The plan and extent of the survey satisfy the specific instructions.
4. The junctions with the adjoining sheets are satisfactory.
5. No further surveying is required within the area of this sheet.
6. The character and scope of the surveying and field drafting are excellent.
7. Reviewed by E. P. Ellis, October, 1924.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic 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. **3913**

State **New York.**

General locality . **North shore of Long Island**

Locality **Oak Neck Point to Fox Point**

Chief of party **H. T. Adams**

Surveyed by **K. T. Adams**

Date of survey **March 28th, to April 6, 1922.**

Scale **1: 10,000**

Heights in feet above

Contour interval feet.

Inked by **K. T. Adams** Lettered by

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet

Remarks: