

4247

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Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
E. Lester Jones Director	
<div>C. &amp; G. SURVEY L. &amp; A. MAR 21 1927 Acc. No.</div>	
State: New Jersey	
DESCRIPTIVE REPORT	
Topographic <del>Hydrographic</del>	Sheet No. C 4247
LOCALITY	
Raritan Bay	
<del>Lower New York Harbor</del>	
Lorillard to South Amboy, N.J.	
1926	
CHIEF OF PARTY	
R. F. A. Studds	

GOVERNMENT PRINTING OFFICE

# DESCRIPTIVE REPORT

to accompany

## TOPOGRAPHIC SHEET "C"

Lower New York Harbor, Lorillard to South Amboy, New Jersey

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### INTRODUCTION

This sheet comprises that portion of the New Jersey shore on the south side of Raritan Bay, between Lorillard and the railroad bridge in the Raritan River. The work is a resurvey to determine what changes have occurred since the original survey and to check any corrections made on charts published subsequent to the last survey. This sheet, on the eastern portion, forms a junction with Sheet "B" at Lorillard and is on a scale of 1/10,000.

The party consisted of one officer and three men and worked from Keyport where the Launch was lying. Working grounds were reached and the survey expedited by making use of the Chief of Party's automobile.

### METHOD

The plane table and stadia method was used in executing the topography. No unusual features developed in this connection. Where it was possible, three-point fixes were always used in determining the position of the setup. A traverse was run from  $\triangle$  Konk to  $\triangle$  Chy., Lorillard, closing with no error. A traverse was run from a point just southwest of  $\triangle$  Konk, which had been located by three points, towards Keyport. This traverse was checked at a place near Keyport, using three other points. The two locations failed to agree by about 25 meters and after rerunning the traverse and finding no error in the rod readings, an investigation was made and it was found that the paper had distorted sufficiently to cause the fixes to disagree by using different signals. This was adjusted with the aid of cuts supplementing the traverse setups.

A number of natural objects were located and their position is given in an accompanying list of plane table positions.

One topographic station, "Bluff", was established and marked. Rocks, etc., off Cliffwood Beach and the wreck off Keyport were located by sextant angles.

The form, Landmarks for Charts, covering this sheet, accompanies this report.

### CHANGES

The area surveyed on this sheet is covered by the lower portion of Chart 286. This latter was used for comparison.

The shoreline in general has not changed materially. Minor changes have occurred in the waterfront at Keyport and South Amboy. The greatest changes appear to be in the fairly recent real estate developments all along the coast.

The most important changes are as follows:

Just north of KEYPORT, a plant named the HEALEY-AERO-MARINE (Bp. 21128) BUS CO., INC., has been established. Some of the buildings were located, but the majority are given on an accompanying print.

In the vicinity of KATAWAN CREEK, there is a development named (Bp. 21130) CLIFFWOOD and a beach resort named CLIFFWOOD BEACH. Some houses exist (to 21135) and all of the roads are laid out and surfaced. These roads are given on accompanying maps.

The entrance to MARQUIS CREEK has closed and the stream has lost itself in the surrounding marsh. There is a small beach resort here known as SEILDER'S BEACH. The buildings stand out prominently from the bay and should be charted.

LAURENCE HARBOR is well built up with detached houses and the (Bps. 21136) roads are all in use. These roads are shown on accompanying prints. (to 21140)

The electric line at MORGAN has been removed and the new highway follows the former location of the car line. A large blueprint (Bp. 21141) covers the roads from MORGAN to slightly beyond the limit of the survey. (and 21143)

### AIRPLANE LANDINGS

The Healey Aero-Marine Bus Co. has a small clearing about 30 m. by 275 m. which they use for plane landings. This landing is small but there are no obstructions on the western side of the landing.

An emergency landing site was located about half a mile northwest of Morgan. This field may be the site for residences at a future date, but at present it seems quite suitable for a landing field. The site has a gradual slope, hard soil, closecut grass and no rocks. It is not large enough for a permanent field but would serve as an emergency site and could be enlarged somewhat by filling in the small gulley on the southwest side.

### THREATS TO NAVIGATION

The rocks shown off Union Beach bare at low water.

The wreck, lying about half a mile north of Keyport, is a danger to navigation and should be charted. Local mariners place flags on it at intervals to mark it at high water, when the wreck is covered, but these are soon washed away.

More rocks than are shown at Cliffwood Beach, bare at low water, altho some are simply lumps of hard soil. At low water the area is littered with them. It is noted that these are charted as rocks showing above high water. The small clump of marsh grass is the only feature that shows at high water.

Respectfully submitted:



R.F.A. Studds,  
Jr. H. & G. E.  
Topographer.

Forwarded:



R.F.A. Studds,  
Jr. H. & G. E.,  
Chief of Party

LIST OF PLANETABLE POSITIONS  
to accompany  
TOPOGRAPHIC SHEET "C"

Signal	Hydrographic Name	Latitude o ' meters			Longitude o ' meters			Remarks
Tank, Car barn		40	26	1046	74	10	1201	In poor condition
Chy., Car barn	"Car"	40	26	972	74	10	1166	Now demolished
Chy., Power Plant		40	26	807	74	11	990	in Keyport
E. Flagpole		40	26	700	74	11	1183	in Keyport
East, Yacht Club		40	26	657	74	11	1306	Keyport
W. Flagpole		40	26	340	74	12	846	west of Keyport
Bluff		40	26	1558	74	12	925	marked station
Small Tank		40	27	337	74	15	1333	near beach
E. Entrance Beacon		40	27	1700	74	15	585	Cheesequake Creek
W. Entrance Beacon		40	27	1747	74	15	642	Cheesequake Creek
Signal Board		40	28	268	74	16	218	
Chy., Morgan Pt.		40	28	747	74	16	746	Near Beach

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4247

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 No. C

REGISTER NO. 4247

State New Jersey

General locality Raritan Bay  
~~Lower New York Harbor~~

Locality Lorillard to South Amboy, New Jersey

Scale 1/10,000 Date of survey November, 1926

Vessel Launch ELSIE

Chief of Party R. F. A. Studds

Surveyed by R. F. A. Studds

Inked by R. F. A. Studds

Heights in feet above - to ground to tops of trees

Contour, Approximate contour, Form line interval - feet

Instructions dated May 7, 1926

Remarks: Supplemented by prints showing streets, etc. - to Mr. Storm

SEE CARDS 1545-4246