Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: Nirginia

DESCRIPTIVE REPORT.

Hyd. Sheet No. 4084

LOCALITY:

Hampton Roads, from Mansemond River to Elizabeth River and Januers Creek

1919

CHIEF OF PARTY:

Potter, L. a.

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

TO ACCOMPANY HYDROGRAPHIC SHEET No. 4084.

- 1. This sheet severs the south side of Hampton Reads, from Nansemend River to Elizabeth River, and Tanners Creek for a distance of about one mile. The Hydrography was done between July 9 and Sept. 18, 1919, and in accordance with orders dated March 8, 1919.
- 2. Tides, Tides were read on an Automatic Gauge at Old Peint Comfert, and also on staff gauges at Craney Island Lightheuse, at Nansemend River Lightheuse, and at Miles Watch Heuse. A temperary tide station was also established at the draw of the first bridge crossing Tanners Croek. The tide observer was changed without my knowledge, and the tide readings, except for the first day, were unreliable. A comparison of the tide readings at this station with the readings at Craney Island Lightheuse, shows practically no difference, and the tides at Craney Island Lightheuse were used for the work in Tanners Croek. The tide staff at Miles Watch House was the same one as used on the main hydrographic sheet of Hampton Reads, forwarded earlier in the season.
- 3. Naval Base, Extensive dredging has been done in the vicinity of the Naval Base and work is still in pregress. A tracing, showing the conditions on July 7, is ferwarded as a part of the records. This tracing was compiled by me, from information obtained in personal interviews with the engineers at the Naval Base, and reference to their field sheets. Dredging is being done practically continuously in the vicinity of the Naval Base. The fellowing is an extract from a letter from the engineers in charge of dredging at the Naval Base.

The sub-surface conditions in the vicinity of the Naval Operating Base are constantly changing, even at the present time, on account of dredging operations which are deepening channels, and also on account of leakage through the bulkheads, which is tending to silt the channels.

- 4. Army Base, A large Army Supply Base has been built on the east side of Hampton Roads 1/2 mile southward of the Naval Base. The area around the wharves, and the approach from the ship channel, have been dredged to 35 feet, with additional areas north and south, dredged to 20 feet. A blueprint showing the limits of the dredging, is submitted. The depths found by our survey differed slightly from those indicated in the blueprint. Vessels of the deepest draft lead and discharge at the wharves.
- 5. Tanners Creek,- The business in Tanners creek is carried on mostly in meter beats and small vessels engaged in fishing, and the transportation of seme farm produce. A channel has been dredged to a depth of 12 feet, to the head of the northern branch of Tanners Creek just inside the entrance. It leads to a small wharf

Desc.Rep.Shts.#

- at the Army Base at the head, but there is little business by the water. This is the enly wharf in Tanners Creek, except for small craft. A blueprint showing the limits of the dredging, is submitted. The channel was unmarked in 1919. A spit, bare at lew water, extends about 299 meters eastward from the south end of the point on the north side of Tanners Creek-entrance.
 - 6. Creek south of Craney Island, This creek is used by small vessels at high water for a distance of about 1 mile, engaged in the transportation of farm produce. There are several small landings.
 - 7. Craney Island, This island is being developed as a United States Quarantine Station. The area inside the bulkhead is being filled by dredging outside the bulkhead, and the depths in the vicinity will undergo considerable change by the time the work is completed. A wharf has been built near the middle of the south side of the island. A water tank is prominent.
 - 8. Main Ship Channel, Dredging was in progress in the main ship channel while the sounding was in progress. For this reason it was not possible to develop the channel. The U.S. Engineers, Norfolk, Va., can furnish information concerning this channel.
 - 9. Preminent Objects, This area is highly developed, and preminent objects are numerous. In a deport dated June 14, with accompanying "Landmarks for Chatts," all objects recommended to be shown on the chart were listed.

L.A. Potter

L. A. Potter, Jr. H. & G. Engineer, Chief of Party. **POST-OFFICE ADDRESS:**

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

STATISTICS SHEET No.

: Date :Let- : Vol-: Posi- : Sound-: Miles Vessel . 1919 :ter : ume : tiens : ings : Statute . July 9: a : 1 : 157 : 1200 : 26.5 : Navy Launch 11: 6 : 4 : 104 1 -800 1 19.0 14 : c : 2 : 164 : 990 : 25.5 15: 0 : 2 : 127 1 950 1 19.5 16: 8 :263 : 137 975 26.5 1 476 1 22 : f : 3 : -61 12.5 24: 9 : 148 : 1221 : . 29.7 25 : h : 4 : 117 : 852 : 24.8 : 4 : 124 28 : i : 992 : 25.5 : * : 425 : 111 30 : 890 : 20.0 31 : t : 5 : 109 : 785 : 17.0 n n 4: m: 5: 133 : 931 : 23.0 51 0 : 586 : -62 : 540 + 12.0 7 : p : 6 : 161 : 909 : 18.0 " & Launch # 56. 8:9 : 6 : .65 : 370 : 10.0 : 6&7 : 91 720 : 45.5 • : 7 : 86 1 846 1 12 ! 5 11.0 15 i t : 7 : 111 : 885 : 12.0 : Nayy Launch & Skiff. 18: 24 : 8 : 65 : 650 : 10.5 : Motor Dory. : 8 : 91 19: 🕶 : 653 : - 12.0 : 8 : 67 20 : W : 551 : -8.0 : 5: x : 9 : 115 8: y : 9 : 111 : 690 : 13.2 : Navy Launch. \$ 9 : 104 24 : 24 : 9 : 2621 : 15268 415.0 1 --1AND REFER TO NO. 41-EMK

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

December 9, 1919.

Field Work

Library (FR)

Division of Hydrography and Topography:

Division of Charts:

Tidal reductions are approved in 9 volumes of sounding records for

HYDROGRAPHIC SHEET 4084

South Shore, Hampton Roads, Va. L. A. Potter in 1919.

Plane of reference is Mean Low water, reading

3.1 ft. on tide staff at Craney Island L.H.

2.6 ft. " " " Miles Watch House, Craney I.Flats.

3.9 ft. " " Nansemond River L.H.

3.9 ft. " " " Old Point Comfort*

*Allowance made for difference in tide at place of sounding.

Attention is called to the fact that Buoy #9A on Lamberts Pt. Flats is apparently plotted in wrong position on sheet.

Condition of records, very satisfactory.

Mude

Chief, Section of Tides and Currents.

Hydrographia Sheet 4084 Elizabeth R. Hampton Roads Surveyed in 1919 by L. a. Potter

The positions of signals should be accentuated by light dot to assist plotting.

The positions. Also each position is not numbered as directed by paragraphs 327 to 330 of General Instructions.

The gigzag lines of soundings which comprise about 7 miles of the inshore hydrography of. this sheet are bontrary to par. 222 of Gen. Instr.

The available depth is undetermined in The dredged waterway of Januar Car. just northeast of Januar Ph., although it is stated in The descriptive report That 12 Just is available.

The someting records are well kept, except for The pariety of notes. This is especially true

of the recording done by H. F. Malnate, who in no case recorded the positions of the beginning and ending of lines.

The crossings of the sounding lines are good and the field and office work is up to the 6. The standard.

The survey is in accordance with The instructions and should be approved.

Minh 31,1920

E.P. Elli

The bost sheets should be destroyed.

EPE.

Mar. 24,1930 EPE

Hydrographic Sheet No. 4084 Hampton Roads. - Virgenia

Sheet protracted and pencil platted by field party, Errors were found in both protracting and platting but this work was generally good,

The survey appears sufficient to develop Conditions as to shools and Channels; The area concred being Closely sounded

brossing are generally good a foot different being about the maximum and this difference is probably die to the reduction of fractions

Position numbers are generally too longe and too close to the position, and a greater number should have been marked, This especially where closely env and where the lines cross on an angle.

Somaing were taken at bagining and ending of lines before the first position and after the lost. These somaing are of but little use as the location can only bu approximate.

There are numerous buoys on the sheet which have all bean located by angles but it would ack in Checking a line and the buoy had they been mentioned in prossing. This was done only occasionally.

Nothing unusual developed in varifying this sheet but there appears to be considerable dredging being done which may change conditions in certain locations. This forticularly in the main Channel near busy 12 a

D. Sorrey afraja.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic 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. 4084.

State Virginia
General locality . Hampton Reads
Locality South Shere, . Hampton . Reads . & Entrance to Tanners Creek.
Chief of party .L. A. Petter, Jr. H. & G. Engineer
Surveyed by .H. P. Odessey, L. A. Petter,
Date of surveyJuly-September, 1919
Scale . 1:10000
Soundings in . Feet:
Plane of reference .Mean Low Water
Protracted by W.F.M., H.P.O.Soundings in pencil by W.F.M., J.W.C., H.P.O. Benjamin Rigg.
Inked by Verified by
Records accompanying sheet (check those forwarded):
Des. report,
Sounding books, Wire-drag books, Photographs.
Data from other sources affecting sheet; 1 Blueprint of Dredged & Filled Areas, Army Supply Base, 1 Tracing-Shewing Condition Of Dredging Around U. S. Naval Base. (Su letter 320 - 1919 - bhart Dir. Film)
Remarks: