

OCT 16 1935

Acc. No. \_\_\_\_\_

5876

Form 504  
Rev. Dec. 1933  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 8  
Hydrographic }

State North Carolina

LOCALITY  
Pamlico River  
~~INTRA COASTAL WATERWAY~~

Goose Creek

1935

CHIEF OF PARTY

John A. Bond

5876

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

OCT 16 1935

REG. NO.

Acc. No. \_\_\_\_\_

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.

Field No. 8

REGISTER NO.

State North Carolina<sup>15</sup>

General locality Pamlico ~~Creek~~ <sup>River</sup> N. C.

Locality Goose Creek and Tributaries

Scale 1:10,000 Date of survey May, 19 35

Vessel MIKAWA

Chief of Party John A. Bond

Surveyed by T. A. Rydingsvard

Protracted by D. M. Watt

Soundings penciled by G. C. McGlasson

Soundings in ~~fathoms~~ feet

Plane of reference Mean Low Water

Subdivision of wire dragged areas by \_\_\_\_\_

Inked by George F Jordan

Verified by George F Jordan

Instructions dated August 31, 19 34

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

\_\_\_\_\_

## DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet No. 8

Intracoastal Waterway - Goose Creek, N.C.

DATE OF INSTRUCTIONS - August 31, 1934

Project - HT-197

### LIMITS

The sheet covers Goose Creek from its junction on the north with Pamlico River to the dredged out on the south. The sheet is joined at its northern limits by sheet 6 of this season's work. On the south the dredged out (Maintained by the U. S. Engineers) extends about 3 miles to Bay River where it joins the area surveyed this season on sheet 15.

### SURVEY METHODS

Standard Coast Survey methods of hand lead soundings and sextant fixes were used throughout. Close to the shoreline and in the extremities of the small tributaries sextant fixes were occasionally impractical and the positions were therefor plotted on the boat sheet in reference to nearby topographic detail, appropriate notes being made in the sounding records.

All sounding on the sheet was done from a 24 foot skiff powered by a Johnson 9 H.P. outboard motor. The leadline was Samson mahogany tiller rope graduated in feet and fathoms, used with an 8 pound lead. The leadline held its length remarkably well and no leadline corrections were necessary throughout any of the work.

### DISCREPANCIES

No discrepancies are known to exist. Errors in the sounding records, principally in recording of angles and fixes, have been adjusted during the smooth plotting and noted in red in the sounding records.

### DANGERS

No dangers are known to exist which would obstruct small boat navigation in the mid-stream channels of the Creek or tributaries.

### U. S. ENGINEER'S PROJECT

A dredged channel is maintained by the U. S. Engineers through the entire length of Goose Creek. No attempt was made to develop in detail the limits of the channel. Only such soundings as fell on the general system of lines were obtained in the dredged out. A special effort, however, was made to develop the 6 foot curve throughout the creek.

COMPARISON WITH PREVIOUS SURVEYS

In general the depths developed by the new survey in the several tributaries to Goose Creek, especially those on the west side of the creek, appear to be from one to two feet shoaler than those shown on Chart 1231. The soundings shown on the chart in the main body of Goose Creek are so few that it is impossible to make an intelligent comparison with the present survey. ✓

LANDMARKS FOR CHARTS

Landmarks for charts will be made the subject of a separate report to be submitted for the entire project. ✓

SHORELINE ON SMOOTH SHEET

The shoreline inked on the smooth sheet was obtained from the completed air-photo sheets of the area compiled by Lieut. Grenell, and was transferred to the sheet by means of a new type projector. ✓

The shoreline had previously been run and signals located by standard topographic methods on aluminum mounted sheets. Minor differences between the topographic sheets and the air-photo sheets were adjusted before the transfer was made. As inked on the smooth sheet the shoreline now agrees accurately with that shown on the air-photo sheets.

GEOGRAPHIC NAMES

A list of geographic names has been compiled by the photo compilation party of Lieutenant S. B. Grenell. ✓

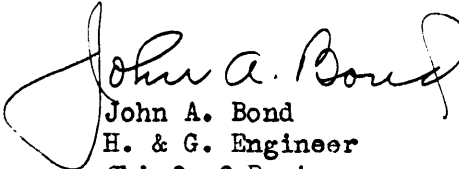
Submitted by,

*T. A. Rydingsvard*  
T. A. Rydingsvard  
Surveyor, C. & G. S.

Approved by:

*John A. Bond*  
John A. Bond  
H. & G. Engineer  
Chief of Party

Smooth Sheet No. 8 was plotted under the immediate supervision of the Chief of Party. The sheet and accompanying records have been inspected and are approved. ✓

  
John A. Bond  
H. & G. Engineer  
Chief of Party

STATISTICS FOR HYDRO SHEET 8

Date	Day Letter	Volume	Miles(Statute)	Soundings	Positions
May 1	a	1	21.4	744	143
2	b	1 & 2	24.5	878	194
3	c	2	21.4	698	157
6	d	2	12.8	437	111
7	e	2 & 3	19.4	780	171
8	f	3	19.0	720	177
9	g	3 & 4	4.0	156	35
10	h	4	14.0	486	128
13	j	4	1.9	71	19
			<hr/>		
			138.4	4970	1135

Smooth Sheet Yes

Boat Sheet 1

Sounding Records Yes Vols. 4

Descriptive Report Yes

Title Sheet Yes

List of Signals Vol. 1

Landmarks for Charts (Form 567) No *Yes*

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) No

Special Chart for Lighthouse Service (Circular Nov. 30, 1933) No

Remarks \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

200

### TIDE NOTE FOR HYDROGRAPHIC SHEET

Division of Hydrography and Topography:

February 14, 1936

✓ Division of Charts: Attention: Mr. E. P. Ellis

Tide Reducers are approved in  
4 volumes of sounding records for

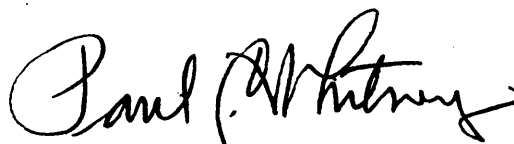
HYDROGRAPHIC SHEET 5876

Locality Goose Creek, Pamlico R., N. C.

Chief of Party: John A. Bond in 1935  
Plane of reference is mean low water reading  
2.2 ft. on tide staff at Goose Creek  
2.4 ft. below B.M. 1

There is practically no periodic tide and the plane of reference  
was taken half a foot below mean water level.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.



GEOGRAPHIC NAMES

Date. Oct. 26, 1935

Survey No. 5876

Chart No. 1231

Diagram No. 1231-2

Approved by the Division of Geographic Names, Department of Interior. ✕

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location	
	<u>Lower Spring Creek</u> ✓	same		✓		
	<u>Clark Point</u> ✓	"				
	<u>Yulford Point</u> ✓	"		✓		
	<u>Tyndall Point</u>	"		✓		
	<u>Goose Creek</u> ✓	"		✓		
	<u>Holly Point</u>	"				
	<u>Store Point</u>	"				
	<u>Snode Creek</u> ✓	"		✓		
	<u>Eastham Creek</u> ✓	"		✓		
	<u>Pasture Point</u>	"				
	<u>Long Neck Point</u> ✓	"		✓		
	<u>Goose Creek Island</u>	"				
	<u>Upper Spring Creek</u> ✓	"		✓		
	<u>Campbell Creek</u> ✓	"		✓		
	<u>Dixon Creek</u> ✓	"		✓		
	<u>Betty Creek</u> ✓					
	<u>Peterson Creek</u> ✓					
	<u>Paton Creek</u> ✓					
	<u>Mallard Creek</u> ✓					
	<u>Slade Landing Creek</u> ✓					
	<u>Smith Creek</u> ✓					
	<u>Hunting Creek</u> ✓					
	<u>Alligator Creek</u> ✓					
		Names approved 11/9/35 tentatively pending receipt of air photo compilation				
		K.F.A. J. B. K. 3/10/36				(4-136)

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. 5876.....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	1135..
Number of positions checked	...35..
Number of positions revised	...2..
Number of soundings recorded	4970..
Number of soundings revised	...2..
Number of signals erroneously plotted or transferred	0.....

Date: Mar 11, 1936

Verification by George F Jordan

Time: 35

Review by

*R. J. Christman*

Time: 14 hrs

VERIFIER'S REPORT ON H 5876 (1935)

1. Survey H 5874 (1935) joins this survey on the north, and has not been verified.

2. Control is obtained from contemporary topographic surveys which are still in the field. the shore line checks with A.P. Compilations T-5557 and T-5559.

3. The field records conform to the requirements of General Instructions, with one exception. All breaks in the sounding lines are noted as "line ends", with few lat. and long. given.

*all the lat. & long. that are necessary are given in the records. P.F.*

4. No additional plotting or changes were made.

5. Remarks-

a. Hydrographic notations were inked with normal letters. *vertical*

b. The location of Goose Creek Tide Gage is not given, but may fall outside the limits of this survey. *Added to sheet from tidal records.*

c. A wreck at 18.7/ 36.1 is shown as baring at H.W., whereas the A.P. Compilation shows same with sunken wreck symbol.

d. The piling at 16.9/ 38.0 is not similarly shown on A.P. Comp. The pier was transferred from the compilation. *Will be adjusted when H.C. sheets are received. P.F.*

e. Signal "KRO" at 16.2/ 35.5 with notation "mast of wreck!" No reference is made to this feature in the records.

f. Attention is called to a small imperfection in the smooth sheet paper at 17.8/ 36.9

Respectfully submitted,

Mar. 11, 1936

*George F. Jordan*  
George F. Jordan

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5876 (1935) FIELD NO. 8

Goose Creek, Pamlico River, North Carolina

Surveyed in May 1935.

Instructions dated Aug. 31, 1934 (NATOMA)

Hand Lead Soundings.

3 Point fixes on shore signals.

Chief of Party - J. A. Bond.  
Surveyed by - T. A. Rydingsvard.  
Protracted by - D. M. Watt.  
Soundings penciled by - G. C. McGlasson.  
Verified and inked by - G. F. Jordan.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual except that the location of the tidal station was not given on the smooth sheet. This has been added from the tide records.

The duplicate copy of the special chart for the Lighthouse Service (Circular Nov. 30, 1933) has not been received.

The Descriptive Report satisfactorily covers the items of importance.

2. Compliance with Instructions for the Project.

The plan and character of development are in accordance with the instructions for the project.

3. Shoreline and Signals.

The shoreline originates with air photo compilations T-5557 (1934) and T-5559 (1934).

The signals are from graphic control surveys T-6412, T-6411 and T-6405, all of 1935 and two hydrographic signals "Uno" and "Mis" recorded in sounding volume No. 3.

4. Sounding Line Crossings.

The sounding line crossings are satisfactory, the depth agreements being within 1 foot or less.

5. Depth Curves.

Within the area surveyed the usual depth curves can be satisfactorily drawn.

6. Junction with Contemporary Surveys.

Junction with H-5874 (1935) on the north will be considered in the review of that sheet. There are no U. S. Engineers' surveys on file in this office that show soundings in the dredged cut in Goose Creek, the controlling depths for the chart being supplied periodically by letter (see par. 8b, this review). The present survey makes an adequate junction with the channel limits as shown on blue print 23014 (1928), except on the west side of the channel in the vicinity of latitude  $35^{\circ}19'$ , longitude  $76^{\circ}37'$ .

7. Comparison with Prior Surveys.H-1088 (1870).

This survey covers Goose Creek and tributaries on a scale of 1:20,000. In general the depths on the present survey are 1 to 2 feet shoaler with shoal areas off the entrance points to the several tributaries somewhat greater in extent. The maintained channel (dredged by the U. S. Engineers) which extends the length of Goose Creek, is 1 to 2 feet deeper than the natural channel as shown by the above survey. Because of the lapse of time since the above survey was made, the small changes in details that have taken place, and because the present survey is on larger scale and shows closer development, H-5876 (1935) should supersede the above survey for charting the area common to them.

8. Comparison with Chart 1231 (New Print dated Dec. 16, 1935).a. Hydrography.

Within the area of the present survey the chart is based on surveys discussed in the foregoing paragraph and contains no other information that needs consideration in this review.

b. Controlling Depth.

Chart letter 620 of 1934 gives the controlling depth for the maintained channel in Goose Creek as "12 feet May 1934" as charted on the above print. The latest report (Chart Letter 130 of 1936) gives the controlling depth as "12 feet Feb. 1936". The present survey indicates the possibility of less water than this controlling depth in a small section of the channel in latitude  $35^{\circ}19.7'$ , longitude  $76^{\circ}37.05'$ . Because ~~and~~ the U. S. Engineers' report is the later information and because the Descriptive Report, page 1, states "No attempt was made to develop in detail the limits of the channel", 12 foot should be accepted as the controlling depth for the channel.

c. Aids to Navigation.

The charted aids to navigation are in agreement with the positions given on the present survey. Attention is, however, called to the fact that since the date of the above chart a number of changes have been made in the characteristics of the lights and the numbers on the buoys have been changed. (See current aid proof).

9. Field Plotting.

The field plotting was satisfactory.

10. Additional Field Work Recommended.

The survey is very satisfactory and no further work is required.

11. Superseding Old Surveys.

Within the area covered, the present survey supersedes the following survey for future charting:

H-1088 (1870) in part.

12. Reviewed by - R. J. Christman, March 17, 1936.

Inspected by - A. L. Shalowitz.

Examined and approved:

C. K. Green, *C. K. Green*  
Chief, Section of Field Records.

*L. O. Pollock*  
Chief, Division of Charts.

*Fred. L. Peacock*  
Chief, Section of Field Work.

*G. H. Hinde*  
Chief, Division of H. & T.

20 - Feb. 30-35

CAD.

Applied to chart No 832 Jan. 21, 1937 R.L.J.  
Applied to Chart Correction 1231 May 18, 1937 H.E.M.