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S.H.A.
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C. & G. SURVEY,
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OCT 21 1909
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Draw. Cht: No. 78-2
 Department of Commerce and Labor
 COAST AND GEODETIC SURVEY

A. K. Littmann
 Superintendent.

State: *Va.*

DESCRIPTIVE REPORT.

Hyd S Sheet No. *3010*

LOCALITY:
*Rappahannock River,
 Ware's Wharf to Tappahannock*

1909

CHIEF OF PARTY:
O. W. Ferguson

COAST AND
GEODETIC SURVEY
OCT 20 1909
REFERRED TO

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DEPARTMENT OF COMMERCE AND LABOR.
COAST AND GEODETIC SURVEY.

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Acc No.

O. H. TITTMANN, Superintendent.

Resurvey of the Chesapeake Bay, Virginia/

Revision of the Rappahannock River.

TITLE SHEET.

Descriptive Report of ~~Topographic~~ & Hydrographic

Sheet 518, Register No. 3010

Western Shore Chesapeake Bay, between

Latitude 37° 52' to 37° 57' N.

Longitude 76° 45' to 76° 52' W.

SCALE 1:10000.

From August 25, 1909 to October 7th, 1909.

O. W. Ferguson, Assistant, C. & G. S. In Command.

SCHOONER "MATCHLESS".

OBSERVERS.

O. W. Ferguson, Assistant, E. E. Smith, Aid,
James E. Marsh; John W. Clift, C. W., C. P. Holland, C. B. M.

RECORDERS.

H. W. Godsey, Writer 2cl.

LEADSMEN.

A. C. Pinder, Seaman.

TIDE OBSERVERS.

W. W. Holland, Seaman.

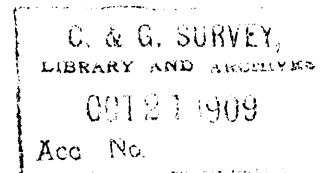
POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

3010

Department of Commerce and Labor
COAST AND GEODETIC SURVEY



SCHOONER "MATCHLESS",

TAPPAHANNOCK, VA.,

SEPTEMBER 30, 1909.

DESCRIPTIVE REPORT OF THE ~~TOPOGRAPHIC AND~~ HYDROGRAPHIC
SHEET ~~518~~, REGISTER NUMBER. 3010

No old stations were definitely recovered on this sheet excepting the Episcopal Church in Tappahannock.

The old house at Wares Landing was found built upon and the old house at Payne Waring is standing. Station Atkins a half mile above Tappahannock was quite definitely located.

The location of old house near Welfords Wharf was found.

The position of Δ^s Ellet and Carter were quite definitely determined.

And the ruins of old Ferry House at Ferry Landing in front Tappahannock was found.

All wharves, and all houses near the shore have been located and objects shown on the old sheets not now found

of the ground are left off the tracing which shows the Hyd. and Topy. as at present. A list of all stations used in the Hydrography and which were located by Plane Table is given with this report.

Like on sheet ³⁰⁰⁹ ~~519~~ the hydrographic development was necessarily made more close on the sheet owing to existence of shallow bar at the Red Beacon and the shallow crossing just above the Tappahannock Wharf. The lines across the river are from 400ms. to 800ms/ apart and many lines run approximately with the current are from 100 to 300 ms. apart.

The lower end of this sheet reaches hardly to Wares and Welfords Wharves.

Tappahannock the county seat of Essex County is the only town on this sheet. It is a very old town said to have been laid out on the same year that Philadelphia, Pa. was, though it has fallen far behind it in growth numbering being not over 600. It has a Post Office, a Bank, Hotel, Court House, Jail, Baptist and Episcopal Churches and a large Church for Colored people, two canning factories where, berries, peaches and tomatoes are canned.

The land is owned in large tracts and there is a disposition to keep the estates intact, this prevents the growth of the town. The nearest point on a railroad is Penola 30 miles inland, all traffic is by steamboat. Many of the old families hope to remain undisturbed by railroads.

There is no oystering and but little fishing. The occupation of farming is general and the products are Corn, wheat,

peas, oats, tomatoes. The stock raised and shipped in constant small quantities are chickens, ducks, turkeys, sheep and some cattle.

The land is quite productive, the soil being better than farther down the river and the climate is not severe. While all of the people seem to get along comfortably wealth is not common nor very much in evidence.

The soil is of sandy loam quite undulating rising to heights of about 35 feet above mean tide level; being sandy and silty with very little gravel and no stones or rocks there are many sloughs and swamps and waterways worn into the surface so that the ground is cut up a good deal.

There is generally a little widening of the river and but little building out. The soundings will show the condition now and by comparison with old charts the changes in the last 55 years. The U.S. Engineer, Major J.J. Morrow, in charge improved the channel from Tappahannock across the bar towards Naylor's Landing by cutting a channel with a suction dredge which deposited material through long pipes to one side. This channel is marked by Red Spar Buoys 14 A and 16 and Black Spar 13 above.

I found and located on the sheet the three monuments set by them to locate their work. Artesian water is generally obtained all along this sheet, *by boring about 200 feet.* the flow about Tappahannock being satisfactory. Its force is only sufficient to raise it a few feet above the surface of the ground. Some places where they can get no flow they go near the high water level along the river, or in a slough and obtain a good flow.

4.

O.W.F. Desc.Rpt. ~~W & H. Sheets 518~~ ³⁰¹⁰ 9/30/1909.

SAILING DIRECTIONS.

3010

The Red Beacon, two miles above both Wares and Welfords Wharves, shown at lower confine of the sheet marks a rib of rock in center of the river. Follow thence past the black spar buoy, No. 9, 2 1/2 miles above, thence to the Red Spar 3/4 mile farther up and ^{thence} on straight to Tappahannock wharf, ^{through} thence the dredged channel past the two red spar buoys 14A and 16, 1/2 mile and 1 3/8 mile above.

Respectfully yours,

O. W. Ferguson.

Assistant, C. & G. Survey,
Commanding.

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U. S. Geol. Surv.

 $\phi = 37^{\circ} 55' 21''$
 $\lambda = 76 47 33$ Examination of Creeks, Rappahannock River, Va.March, 1910.Descriptive Report of Little Carter's Creek.

This creek is three miles east of Tappahannock and on the opposite side of the river. It extends three miles northwest from its mouth skirting quite near to cultivated land on the east side, rising to a height above 20 feet. All of the area between this creek and the river, on its west, being marsh.

It is from 25 to 40 meters wide throughout excepting at a few wider points at the bends.

This creek furnishes about $3\frac{1}{2}$ feet at low water at the mouth and two feet for a distance of three miles any way with places of 8 to 12 feet depth.

There are fish traps at its mouth.

There is no navigation on this creek now, though scows have been used to carry lumber and timber out of the creek, and could be used again.

O. W. Ferguson.

3010^a

U. S. Geol. Surv. Station

3010^a

$\phi = 37^{\circ} 54' 05''$
 $\lambda = 76^{\circ} 49' 08''$

Examination of Creek, Rappahannock River, Va March, 1910.

Descriptive Report of Piscataway Creek.

This creek is $2\frac{3}{4}$ miles below Rappahannock, Va. It enters the river at a deep recess in its bank where it is only 75 meters wide. It is tortuous in its course. The topography and hydrography was carried to $6\frac{1}{4}$ miles above the mouth measured along its channel but only 4 miles in direct-line.

Its width varies from 45 to 260 meters and meanders through a marsh four or five times as wide, touching frequently ground rising to 10 or 20 feet. The highway bridge with a draw crosses about five miles above the mouth. West of this bridge and on the south side the hills rise to about 100 feet.

There is usually a narrow to a deep fringe of timber and at the upper end of the survey and above a large area of timber; though the country is generally cultivated. Fishing is carried on. There are two quite important lumber landings with small wharfs; one, a quarter and one a half mile above the bridge where water is 12 to 14 feet deep; tier lumber and mine props are also loaded at other points. The bar across mouth furnishes 5 feet and thence an average depth of 6 feet can be carried to $\frac{3}{4}$ mile above the bridge; though at places in the bend there is from 12 to 30 feet of depth.

A. W. Hensman

3010

$$\begin{aligned}\phi &= 37^{\circ} 55' 15'' \\ \lambda &= 76^{\circ} 50' 50''\end{aligned}$$

U.S. Geol. Survey

Examination of Creeks, Rappahannock River, Va
February and March, 1910.

Descriptive Report of Glooskin Creek.

This creek enters the river $\frac{3}{4}$ mile below Tappahannock, Va and circles in south of the town. Three quarters of a mile above the mouth the highway bridge leading to Tappahannock crosses.

It was examined for about $1\frac{1}{2}$ miles of its length. It winds through a marsh about 300 meters wide, frequently touching good high ground rising to ten or even above 20 feet.

The creek is fringed with timber but otherwise the land is generally cultivated.

The bar across mouth furnishes $3\frac{1}{2}$ feet but once inside about four feet can be carried to above the examination. The bottom is uneven and depths of 12 to 18 feet are found.

There is now but little navigation on this creek, though some lumber and tee and wood are shipped out an scow.

O. W. Ferguson.

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TAPPAHANNOCK, VA.,

SEPTEMBER 30, 1909.

LIST OF NAMES OF HYDROGRAPHIC SIGNALS USED ON SHEET ³⁰¹⁰ ~~318~~.

NORTH SIDE

WELL

FOUR

WHISP

ELL

BAN

BEE - Beacon

FISH

CONE

GROS

FER

DRAW

WAR

SOUTH SIDE

WARE

FORT

PAY

CENT

GOT

OAK

CO

EPISCO

TAP

CAN

MON

Department of Commerce and Labor

Statistics for Hyd Sheet 3010

Date	Letter	Volume	Positions	Soundings	Miles	Vessel
Sept. 14, 1909.	a	1	59	430	12.4	Steam Launch
" 15, "	b	1	92	622	16.0	" "
" 22, "	c	1	59	463	12.5	" "
" 23, "	d	1	4	23	1.0	" "
October 7, "	e	1	23	189	4.8	" "
March 9, 1910.	d	Supplemental Vol. 1	22	81	1.7	Whaleboat
" 21, "	h	Supplemental Vol. 2	61	364	6.1	"
" 25, "	i	Supplemental Vol. 2	3	19	0.4	"
Totals		3	323	2191	54.9	Totals

Statistics for Hyd. Sheet 3010^a

Date	Letter	Volume	Positions	Soundings	Miles	Vessel
March 18, 1910	f	Supplemental Vol. No 2	135	557	11.1	Whaleboat.
Totals			135	557	11.1	Totals.

Soundings plotted in feet.

~~Plotted~~

~~Contracted~~ by Field Party.

Plotted and inked by R. L. Johnston.

It is inked

gfd.

MDH

Jan. 18, 1912.

HYDRAGRAPHIC SHEET 3010 and 3010-a.

RAPPAHANNOCK RIVER, Virginia,

Lat. 37° 51' to Lat. 37° 58'
Long. 76° 44' to Long. 76° 53'

by Asst. O. W. Ferguson in 1910.

TIDES.

	Tappahannock ft.
Mean low water of plane of reference on staff	3.1
Lowest tide observed	-0.1
Highest " "	6.3
Mean range of tide	1.6

Coast and Geodetic Survey

JAN 18 1912

TIDES, VIRGINIA.

D. S. D. W.
1/18/12

3010

STATISTICS

Date 1910	Letter	Vols.	Positions	Soundings	Miles Statute	Vessel
February 3	a	1	67	370	5.9	Whaleboat
March 7	b	1	59	362	9.9	
8	c	1	86	398	9.8	
9	d	1	22	81	1.7	
17	e	1	67	380	6.2	
18	f	2	135	557	11.1	
19	g	2	58	384	7.8	
21	h	2	61	364	6.1	
25	i	2	3	19	0.4	
Total	9	2	558	2915	58.9	

C R E E K S

- a Cat Point Creek, Sheet 3011a ✓
- b Cat Point Creek, " 3011a ✓
- c Occupacia " " 3029
- d Hoskins " " 3010 ✓
- e Mount Landing Creeks" 3011 ✓
- f Piscataway Creek " 3010a ✓
- g Cat Pt. & Lewis Creeks 3011a & 3011 ✓
- h Vicinity of Tappahannock & ✓
Little Carters Creek 3010 ✓
- i Slash Creek 3010 ✓

3010 =

STATISTICS

Date 1910	Letter	Vols.	Positions	Soundings	Miles Statute	Vessel
February 3	a	1	67	370	5.9	Whaleboat
March 7	b	1	59	362	9.9	
8	c	1	86	398	9.8	
9	d	1	22	81	1.7	
17	e	1	67	380	6.2	
18	f	2	135	557	11.1	
19	g	2	58	384	7.8	
21	h	2	61	364	6.1	
25	i	2	3	19	0.4	
<hr/>						
Total	9	2	558	25	58.9	

C R E E K S

- a Cat Point Creek, Sheet 3011a
- b Cat Point Creek, " 3011a
- c Occupacia " " 3029
- d Hoskins " " 3010 ✓
- e Mount Landing Creeks" 3011
- f Piscataway Creek " 3010 ✓
- g Cat Pt. & Lewis Creeks 3011a & 3011b ✓
- h Vicinity of Tappahannock & Little Carters Creek 3010 ✓
- i Slash Creek 3010 ✓

Hyd. Sheet 3010 + 3010^a

The crossings on this sheet are very good and the ground has been well covered.

Most of the positions were reprotracted and a number of them were found to be "revolvers". These were corrected thereby improving the crossings.

In the dredged channel at Mangoright Bar, soundings from thirteen to seventeen feet have been picked up on the cross lines, although the depth is supposed to be twelve feet. These may be alright, as some seventeen foot soundings were found in the Engineers Survey.

All of the supplemental work has been added to the sheet except that done in Piscataway Creek, which is shown on a separate tracing, Hyd. 3010^a.

This work in Hoskins, Little Carters and Piscataway Creeks is not as reliable as that on the main sheet, as few angles were taken and the control is poor.

R. L. Johnston.
Draftsman.
7/29/10.