

8063

Diag'd. on Diag. Ch. No. 78-4

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photographic (Shoreline)

Field No. CS-283 Office No. T-8063

LOCALITY

State Virginia

General locality James River

Locality Nansemond River - Chuckatuck Creek
Brewers Creek

194 1-'44

CHIEF OF PARTY

H.O. Fortin

LIBRARY & ARCHIVES

DATE December 21, 1949

B-1670-1 (1)

8063

DATA RECORD

T- 8063

Quadrangle (II):

SMITHFIELD, VA. 15' Quadrangle
(U.S.G.S.)

Project No. (II):

CS 283

Field Office:

Air Photographic Party No. 2

Chief of Party: ~~Fred. L. Peacock~~

H. O. Fortin

Compilation Office:

Baltimore Photogrammetric Office

Chief of Party: Fred. L. Peacock

Div. of Photogrammetry

Instructions dated (II III):

March 26, 1942, July 15, 1942
Sept. 30, 1942, Nov. 14, 1942 and
November 24, 1942Copy filed in Descriptive Office Files
Report No. ~~3~~ (VI)

Completed survey received in office: 10-13-44

Reported to Nautical Chart Section: Oct. 1944

Reviewed: 9-23-48 Applied to chart No. 529 Date: 8-8-46

Redrafting Completed: 10-27-49

Registered: 12-7-49

Published:

Compilation Scale: 1:10,260

Published Scale:

Scale Factor (III): 0.97466

Geographic Datum (IPI): N.A. 1927

Datum Plane (III): MHW
~~Mean Sea Level~~

Reference Station (III): GAYLE, 1934

Lat.: 36° 54' 14.334 Long.: 76° 31' 29.365
441.9(1407.7)m 727.0(758.4)mAdjusted
Unadjusted

State Plane Coordinates (VI): Virginia South Zone.

X = 2 577 499.26 FT

Y = 213 802.96 FT

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
7708 to 7810 incl.	11/26/41	10:00 a.m.	1:10,000	0.2' above M.L.W.
7714	"	10:09 a.m.	1:10,000	0.2' " M.L.W.
7727 to 7732 incl.	"	10:28 a.m.	1:10,000	0.2' " M.L.W.
7831	"	12:46 p.m.	1:10,000	1.3' " M.L.W.

Tide from (III): Predicted Tables, Reference Station - Hampton Roads with corrections for Chuckatuck Creek Entrance

Mean Range: 2.8'

Spring Range: 3.4'

Camera: (Kind or source)

United States Coast & Geodetic Survey Nine Lens Camera (focal length 8 1/4")

All negatives are on file in the Washington Office

Field Inspection by:

Lt. Comdr. Henry O. Fortin
Lt. Dale E. Sturmer

date:
Jan. & Feb. 1943
March 1944

Field Edit by: None

date:

Date of Mean High-Water Line Location (III):

Date of photographs supplemented by field inspection data obtained in 1943 and 1944

Projection and Grids ruled by (III) J.T. (Washington Office) date: 8-9-44

" " " checked by: JT (Washington Office) date: 8-10-44

Control plotted by: Edward H. Snyder date: 8-15-44

Control checked by: Henry P. Eichert date: 8-17-44

Radial Plot by: J. Edward Deal, Jr. date: 8-24-44

Detailed by: Mildred M. Trautman date: 9/1/44 to 10/9/44

Reviewed in compilation office by: Henry P. Eichert date: 10/2/44 to 10/9/44

Elevations on ~~Field Edit Sheet~~ ^{Manuscript} checked by: None date:

STATISTICS (III)

Land Area (Sq. Statute Miles): Shoreline only

Shoreline (More than 200 meters to opposite shore): 6.5 statute miles

Shoreline (Less than 200 meters to opposite shore): 12 statute miles
(measured along centerline of streams)

Number of Recoverable Topographic Stations established: 7
(including ~~two~~^{five} bench marks)

Number of Temporary Hydrographic Stations located by radial plot: 10

Leveling (to control contours) - miles:

Roman numerals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname
and initials (not initials only).

Remarks:

Summary to Accompany T 8063

T 8063, scale 1:10,000, is one of 40 shoreline surveys in Project CS-283 along the James River, Virginia.

Project CS-283 was originally planned as a planimetric mapping project but was limited to shoreline surveys only after War Mapping Project CS-289, covering practically all the James River, was undertaken.

Topographic Quadrangle T 8305 (Project CS-289) completely covers T 8063. The former was compiled in 1944 from 1:20,000 scale photographs taken in 1942 in contrast with T 8063, compiled in 1944 from 1:10,000 scale photographs taken in 1941.

Field Inspection

Field inspection data for the area of T8063 are contained in the "Reports on Field Inspection of Air Photographs, James River and Tributaries" by Henry O. Fortin, 1943 Season and Dale E. Sturmer, 1944 Season. Filed in Div. of Ptg., General Files

This Map Drawing includes the shoreline and adjacent planimetry of most of the area of Chuckatuck Creek and its tributaries. A small portion of Nansemond River in the vicinity of Nix Wharf is also included.

26. CONTROL:

The following horizontal control stations fall within the limits of the Map Drawing for Survey No. T-8063. They are:

UNITED STATES COAST & GEODETIC SURVEY FIRST ORDER
TRIANGULATION STATION:

•• HOLLOWAY, 1932, r 1943

UNITED STATES COAST & GEODETIC SURVEY SECOND ORDER TRIANGULATION STATIONS:

MUDDY, 1944 *Outside limits of sheet.*
• OWENS, 1934, r 1943
• BRIDGE, 1934, r 1943
• GIRTIE, 1934, r 1943
• KISH, 1934, r 1943
• GAYLE, 1934, r 1943
• CHARLIE, 1934, r 1943
• NAG, 1932, 1934 (USE) r 1943
• JOHNSON, 1934, r 1943
• FULGHAM, 1934, r 1943

UNITED STATES COAST & GEODETIC SURVEY INTERSECTION TRIANGULATION
STATIONS:

• NIX'S CLUBHOUSE, 1934, r 1943
• CHUCKATUCK CREEK BRIDGE EAST TOWER, 1934, r 1943

UNITED STATES GEOLOGICAL SURVEY MONUMENTED TRAVERSE STATIONS:

P.T.S. NO 1, 1918 c, r. 1943 *Deleted - See Review Report*

UNITED STATES GEOLOGICAL SURVEY TEMPORARY TRAVERSE STATIONS *Deleted - See Review Report*
(All established in 1917-1918 and recovered in 1943)

T-Road South

Northeast Corner of Whitehead Church Property

Gate at Crossing of Road and Nansemond and Isle of Wight County Line

T-Road North

Junction of T-Road

Junction of T-Road North

Hobson Post Office, Center of Road Opposite

26. CONTROL (Continued)

T-Road North, Centerline South of Both Roads

Centerline of Road to Isle of Wight

The following stations fall just outside the area of Map Drawing for Survey No. T-8063. They are:

UNITED STATES COAST AND GEODETIC SURVEY FIRST ORDER TRIANGULATION STATION:

JAC, 1934 (USE), r 1943

UNITED STATES COAST & GEODETIC SURVEY SECOND ORDER TRIANGULATION STATIONS:

FIELD, 1934, r 1943
KITTY, 1934, r 1943
SEVENTEEN, 1934, r. 1943
ADAM, 1934, r 1943
CHUCK, 1934, r 1943
DIXON, 1934, r 1943
ASK, 1934, r 1943
UPTON, 1934, r 1943
NAI, 1932, r 1934 (USE), r 1943
MAYO, 1934, r 1943
BRADFORD, 1934, r 1943
NEW, 1934, r 1943

UNITED STATES COAST & GEODETIC SURVEY INTERSECTION TRIANGULATION STATIONS:

NANSEMOND RIVER EAST TOWER, 1934, r 1943
BRADFORD HOUSE CUPOLA, 1934, r 1943
CHUCKATUCK CREEK BEACON, 1934, r 1943

UNITED STATES GEOLOGICAL SURVEY MONUMENTED TRAVERSE STATIONS
(Established in 1917 and recovered in 1943)

P.T.S. No. 1
P.T.S. No. 2

UNITED STATES GEOLOGICAL SURVEY TEMPORARY TRAVERSE STATIONS
(All established in 1917-1918 and recovered in 1943)

T-Road South

T-Road North

T-Road S.E. Nansemond River Road

26. CONTROL:(Continued)

The United States Geological Survey Traverse Stations, mentioned above, both inside and outside the limits of this Map Drawing, could not be used for horizontal control along with the United States Coast and Geodetic Survey horizontal control stations. This condition was thoroughly discussed in the descriptive report for the combined radial plot for Surveys Nos T-8053, T-8054, T-8063, T-8064, T-8065, and T-8066. The geographic positions of two U.S.G.S. traverse stations falling in the northwest area of the Map Drawing could not be verified due to insufficient photographs. They are: P.T.S. No. 1 and Temporary Traverse Station "T Road South". All other horizontal control stations listed were used to establish photograph centers, secondary control points, and detail points for this Map Drawing.

Radial Plot Report filed in Div. of Photogrammetry - General Files

27. RADIAL PLOT

The radial plot for this Map Drawing is part of the combined radial plot for Surveys Nos. T-8053, T-8054, T-8063, T-8064, T-8065, and T-8066, the descriptive report for which was submitted to the Washington Office on September 15, 1944.

28. DETAILING

The number of nine lens office photographs was sufficient for detailing. The scale of the photographs was in good agreement with the scale of the Map Drawing Projection.

The shoreline field inspection data were transferred from the field photographs to the nine lens office photographs. During this transfer the stereoscope was used to verify the field inspection data.

In general, the field inspection data were satisfactory except that, physical and cultural features adjacent to the southern shoreline of Chuckatuck Creek, were not field inspected.

The shoreline and immediate adjacent culture of that portion of the Nansemond River, Chuckatuck Creek, and its tributaries falling within the limits of this Map Drawing has been detailed in accordance with the Director's letters dated March 26, 1942; July 15, 1942; September 30, 1942, pertaining to Project No. C.S. 283. Filed in Div. of Photogrammetry - Office Files.

All drainage within the limits of this Map Drawing flowing into the Nansemond River, Chuckatuck Creek, and its tributaries has been detailed.

Roads not classified by the Field Inspection Unit were shown according to the compilers interpretation of the photographs after comparison with corresponding common roads, classified on War Mapping Map Manuscript Survey No. T-8305, Project CS 289.

28. DETAILING (Continued)

Tree areas not classified by the Field Inspection Unit were also interpreted by the compiler after comparison with similar classified areas. Tree areas have been detailed and shown with the conventional symbols.

Buildings immediately adjacent to the shoreline and those which are believed to be located at a sufficient elevation to be visible from the water have been detailed.

The Field Inspection Unit indicated a number of areas containing pilings, dolphins, stakes, old wharf ruins, oyster beds, and a fish trap. Some of these areas could not be seen on the nine lens photographs and their approximate positions, as indicated by the Field Inspection data, have been outlined on the Map Drawing with a dashed line in black acid ink. An appropriate note accompanies each location. Those visible on the office photographs were shown with the conventional symbol, accompanied by a pertinent note.

A telegraph cable (overhead) to Nix's Clubhouse was shown on the field photographs and was detailed accordingly

29. SUPPLEMENTAL DATA

An ozalid print of Map Manuscript for Survey No. T-8305, Project CS 289, scale 1:20,000 was furnished the Compilation Office.

30. MEAN HIGH-WATER LINE

The conventional full heavy weight black acid ink line has been used for detailing the Mean High-Water Line. The full light weight line indicates the outer limits of low wet land at Mean High Water but is not to be considered a Mean High-Water Line.

31. LOW WATER AND SHOAL LINES:

No Low-Water lines have been shown on this Map Drawing and none was indicated by the field inspection data. Several shoal areas (mud) were indicated by the field inspection data in Chuckatuck Creek, Brewers Creek and Nansemond River. The offshore limits of these areas have been shown by a light weight dotted acid ink line with the words "Shoal (Mud)" lettered inside the area. See Review Report

32. DETAILS OFFSHORE FROM THE HIGH-WATER LINE

Piling areas, dolphins, stakes, fallen trees, and a fish trap identified on the field inspection photographs are detailed on this Map Drawing accompanied by descriptive notes.

33. WHARVES AND SHORELINE STRUCTURES

Numerous catwalks, piers, remains of piers, boat sheds, and a

33. WHARVES AND SHORELINE STRUCTURES (Continued)

marine railway were detailed on the Map Drawing and noted in accordance with field inspection data.

34. LANDMARKS AND AIDS TO NAVIGATION:

There are no landmarks or aids to navigation within the limits of this Map Drawing.

35. HYDROGRAPHIC CONTROL

The Compilation Office was furnished the identification of 10 temporary hydrographic signals and 6 recoverable topographic stations, which may be used as partial hydrographic control. These were identified and numbered on the 1:10,000 field inspection photographs. Their descriptions were listed in a sketch book (form 274) by corresponding numbers. These stations were transferred to the office photographs and radially plotted on the Map Drawing. The numbers and descriptions of each station has been noted near the station to which they refer, directly on the Map Drawing. Form 524 is being submitted for the following recoverable topographic stations:

South Gable ~~Unpainted Barn~~, 1944
West Gable ~~Barn~~, 1944
North Chimney of ~~Pyramidal Reef House~~, 1943
East Gable ~~Unpainted Barn~~, 1943
Chimney ~~West End White House~~, 1943
Tidal B.M. #2, 1944

Form 524 is also being submitted for B.M. 44.4 but this station is not believed to be suitable as partial control for any future hydrographic survey. Deleted - See Review Report

36. LANDING FIELDS AND AERONAUTICAL AIDS

No landing fields or aeronautical aids fell within the limits of this Map Drawing.

37. JUNCTIONS

To the north - The junction with Map Drawing for Survey No. T-8062 is in satisfactory agreement

To the south - The junction with Map Drawing for Survey No. T-8064 is in satisfactory agreement

To the east - The junction with Map Drawing for Survey No. T-8054 is in satisfactory agreement.

To the west - No contemporary survey

38. GEOGRAPHIC NAMES *Approved list filed in Geographic Names Section*

According to instructions, no special geographic names investigation was made for the area of Survey No. T-8063. Geographic names appearing on the Map Drawing were taken from a Geological Survey 15' quadrangle Smithfield, Va., scale 1:62,500 and Map Manuscript for Survey T-8305, scale 1:20,000. All names are undisputed and a list is attached to this descriptive report.

39. HORIZONTAL ACCURACY

The probable error in the relative position of detail points, the Mean High-Water Line, and well defined objects is believed to be within the limits of satisfactory accuracy.

40. RECOMMENDATION FOR FUTURE SURVEYS

This rough draft shoreline survey for Map Drawing, Survey No. T-8063 is believed to be complete in all details for charting and no other surveys are deemed necessary.

44. COMPARISON WITH EXISTING TOPOGRAPHIC SURVEYS

A visual comparison only could conveniently be made with the Virginia 15' Smithfield Quadrangle of the U. S. Geological Survey, scale 1:62,500, edition of 1929. The planimetric detail, in general, appeared to be in good agreement. As the United States Geological Survey horizontal control could not be held, a detailed comparison would probably reveal many differences.

Comparison was made with Map Manuscript for Survey No. T-8305, scale 1:20,000. The vertical projector was used for this purpose.

Common planimetric detail was in good agreement except for minor indentations and protrusions occurring in the Mean High-Water Line and the outer limits of low wet land at Mean High-Water.

45. COMPARISON WITH NAUTICAL CHARTS

Chart #529, scale 1:40,000, published September 1940, issue of March 1944, includes a portion of this Map Drawing. The shoreline and adjacent common planimetric detail are in good agreement. However, there are three piling areas in Chuckatuck Creek at the following approximate positions; which are not shown on the Map Drawing:

Lat. $36^{\circ} 54'40''$; Long. $76^{\circ} 30' 27''$
Lat. $36^{\circ} 54'33''$; Long. $76^{\circ} 30' 36''$
Lat. $36^{\circ} 54'52''$; Long. $76^{\circ} 30' 5''$

Two pile areas in the Nansemond River are not shown on the Map Drawing. Their approximate positions are:

45. COMPARISON WITH NAUTICAL CHARTS (Continued)

Lat. $36^{\circ} 53' 19''$ Long. $76^{\circ} 30' 18''$
Lat. $36^{\circ} 53' 16''$ Long. $76^{\circ} 30' 29''$

A small island shown on the chart just off the west shore of the Nansemond River at the approximate location Lat. $36^{\circ} 53' 25''$, Long. $76^{\circ} 30' 33''$ is shown on the Map Drawing as a hammock surrounded by marsh.

Chart #529 shows a wreck just off the west bank of the Nansemond River. This was not identified by the Field Inspection Unit. Nevertheless, from examination of the nine lens office photographs, it is believed that this wreck has been identified. A radially plotted position has been determined, which confirms the position as shown on the chart. The wreck has been shown with the conventional symbol.

Respectfully submitted
October 10, 1944

Mildred M. Trautman
Mildred M. Trautman
Ass't. Photogrammetric Aid

Compilation and Descriptive
Report Reviewed by:

Henry P. Eichert
Henry P. Eichert
Junior Photogrammetric Engineer

Compilation of Map Drawing
Supervised by

J. Edward Deal, Jr.
J. Edward Deal, Jr.
Asst. Photogrammetric Engr.

Approved and Forwarded
October 13, 1944

Fred L. Peacock
Fred. L. Peacock
Chief of Party, C&G Survey
Officer in Charge
Baltimore Field Office

LIST OF GEOGRAPHIC NAMES

Undisputed

- Bonny Winall Creek .
- Bonny Winall Point .
- Brewers Creek .
- Chuckatuck Creek .
- Milteer Creek .
- Moores Point .
- Nansemond River .
- Nix Cove .
- Nix Wharf .
- Smith Neck .
- Smith Neck Creek .
- Kings Pt. .
- Milteer Ldg. .
- Packetts Wharf .
- Crittenden Bridge .
- Cherry Grove .
- Virginia* (for title)
 - Point of Marsh .

* = Decis. of BGN

• = Approved name

9-21-48

A. J. W.

Descriptions of Photo-Hydro Stations

T-8063

- . 80 - West gable of red building on wharf. Building has galvanized iron roof.
- . 81 - South point of grass at break into clay bank eight feet high.
- . 83 - S.W. corner of old pier on W. side of Chuckatuck Creek.
- . 85 - S.W. corner of pier on E. side of Chuckatuck Creek.
- . 86 - N.W. corner of dock on E. side of Chuckatuck Creek.
- . 89 - N. W. corner of dock.
- . 93 - N.E. corner of a small pier.
- . 94 - Point of land on S. side of entrance to stream at M.H.W.L.
- . 95 - E. gable of white house with red roof, two story.
- . 98 - E. gable of porch of low, red-roofed, white cottage. Porch has white columns.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON 25

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO NO.

Division of Photogrammetry
Review Report of
Shoreline Map Manuscript T-8063

Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.

28 Detailing

The outlines of buildings were added where their positions coincide with the symbols for Triangulation and Topographic Stations.

31 Low Water and Shoal Lines

The dotted line symbol enclosing areas labelled "Shoal (Mud)" was changed to a dashed line. The areas enclosed by the dashed lines were labelled "Shallow". See Paragraph 31 of the Compilation Report.

37 Topographic and Photo-Hydro Stations

The Topographic Station, BM 44.4, 1944, was deleted from the map manuscript. The station is in an area of poor photographic coverage. See Paragraphs 26 and 35 of the Compilation Report.

Names of the Topographic Stations were changed to a short, descriptive term on the Form 524 cards and the map manuscript.

A list of descriptions of Photo-Hydro Stations was prepared and made a part of the Descriptive Report.

40 Geographic Names

Names were added to the map manuscript from the approved list submitted by the Geographic Names Section.

44 Comparison with Existing Surveys

USGS	Smithfield Quadrangle	1:62500	1929	Reprinted 1944
T-501	1:20000		1853	
T-505	1:20000		1851	
T-1265	1:20000		1871-2	
T-6422	1:10000		1934	
T-8305	1:20000		1944	

T-8305 is a more recent survey. Corrections were not brought forward to T-8063.

See Paragraph 44 of the Compilation Report for comparison with T-8305.

Common features on all previous surveys are superseded in common area by T-8063. *for nautical charting purposes.*

45 Comparison with Nautical Chart

Chart No. 529 1:40000 1944 Corrected 1947

The row of piling shown on the chart Northeast of Crittenden Bridge is not shown on the map manuscript.

51 Application to Nautical Charts.

The map manuscript has been applied to the Nautical Chart.

Reviewed by:

Approved by:

Charles Theurer
C. Theurer

S. V. Griffith *R.V.M.*
S. V. Griffith
Chief, Review Section
Div. of Photogrammetry

Approved by:

B.G. Jones 12/49
B. G. Jones, Tech. Asst. To Chief,
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H. C. Edmonston
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