

8070

Diag. Cht. No. 78-4

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photographic (Shoreline)

Field No. _____ Office No. T-8070

LOCALITY

State Virginia

General locality James River

Locality Mulberry Island - Cobham Bay

194 1-'42

CHIEF OF PARTY

L.W. Swanson and F.L. Peacock

LIBRARY & ARCHIVES

DATE February 23, 1950

B-1870-1 (1)

8070

DATA RECORD

T- 8070

Quadrangle (II): Yorktown, Virginia (U.S.G.S.) Project No. (II):
CS 283

Field Office:

Chief of Party: L. W. Swanson

Air Photographic Party No. 2

Baltimore, Maryland

Compilation Office:

Chief of Party: Fred. L. Peacock

Air Photographic Party No. 2

Baltimore, Maryland

Instructions dated (II III):

March 26; July 15;)
Sept. 30; Nov. 14; 1942

Div. of Photogrammetry
Office Files
Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office: July 1944

Reported to Nautical Chart Section: July 1944

Reviewed: 9 - 16 - 48 Applied to chart No. 529 Date: Nov. 1943

Redrafting Completed: 11-28-49

Registered: 2 - 6 - 50

Published:

Compilation Scale: 1:10,170

Published Scale:

Scale Factor (III): 0.983284

Geographic Datum (III): N.A. 1927

Datum Plane (III): MHW

~~Mean Sea Level~~

Reference Station (III): VAIN, 1938 recovered 1942

Lat.: 37° 10' 16.613" 512.1 m Long.: 76° 42' 04.348" 107.3 m Adjusted
(1337.5) m (1372.9) m ~~Unadjusted~~

State Plane Coordinates (VI): Virginia, South Zone

X = 2, 524, 080.64

Y = 310, 072.78

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
7670	11/25/41	2.04 p.m.	1:10,000	1.35' above M.L.W.
7671	11/25/41	2.04 p.m.	1:10,000	1.35' above M.L.W.
7672	11/25/41	2.04 p.m.	1:10,000	1.35' above M.L.W.
7749	11/26/41	11:00 a.m.	1:10,000	0.25' above M.L.W.
7750	11/26/41	11:00 a.m.	1:10,000	0.25' above M.L.W.
7840	11/26/41	1.04 p.m.	1:10,000	0.45' above M.L.W.
7841	11/26/41	1.04 p.m.	1:10,000	0.45' above M.L.W.

Tide from (III): Tables of predicted tides, reference station Hampton Roads, Virginia with time correction for Hog Point, Virginia

Mean Range: 2.1 ft.

Spring Range: 2.5 ft.

Camera: (Kind or source) U.S. Coast & Geodetic Survey Nine Lens camera (focal length 8.25 in.) All negatives are on file in the Washington Office.

Field Inspection by: Lieutenant E. B. Lewey

date: Summer & Fall
of 1942

Field Edit by: None

date:

Date of Mean High-Water Line Location (III): 11/25 & 26/41

Projection and Grids ruled by (III) Washington Office, date: 12/11/42
CHR

" " " checked by: Washington Office, CHR date: 12/11/42

Control plotted by: Louise C. Painter

date: 12/18/42

Control checked by: Walter E. Schmidt

date: 12/18/42

Radial Plot by: Walter E. Schmidt

date: 12/42

Willis W. St. John)
Detailed by: Frederick W. Hildebrand) Shoreline, rough draft date: 12/42 to
Harriet H. Moritz) 2/43

Reviewed in compilation office by: William H. VanLoon date: 3/43

Elevations on Field Edit Sheet
checked by: None

date:

STATISTICS (III)

Land Area (Sq Statute Miles): None

Shoreline (More than 200 meters to opposite shore): 11 miles

Shoreline (Less than 200 meters to opposite shore): 20 statute miles

Number of Recoverable Topographic Stations established: 9

Number of Temporary Hydrographic Stations located by radial plot: ~~34~~ 33

Leveling (to control contours) - miles: None

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-~~8070~~⁸⁰⁷⁰

T~~8070~~⁸⁰⁷⁰, Scale 1:~~10,000~~^{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~~8318~~⁸³¹⁸ (Project CS-289) completely covers T~~8070~~⁸⁰⁷⁰. The former was compiled in 1944 from 1:20,000 scale photographs taken in 1942, in contrast with T~~8070~~⁸⁰⁷⁰, compiled in 1942-3 from 1:10,000 scale photographs taken in 1941.

Field Inspection

Field inspection data for the area of T 8070 are contained in the "Report on Field Inspection of Air Photographs, James River, Newport News to Hopewell, Virginia" by Ernest B. Lewey, dated October 12, 1942. Filed in Division of Photogrammetry, General Files.

COMPILATION REPORT

26. CONTROL

The control plotted within the original detailed limits of this map drawing consists of six U. S. Coast & Geodetic Survey triangulation stations, and two U. S. Engineers triangulation stations, shown with the conventional symbol. Field inspection stations have been substituted for six of these triangulation stations, and are indicated by a small square, in purple ink on the glossy side of the map drawing.

Following is a list of these stations:

- Ulber, 1938, r.1942 (F.I.S. "HUL" Cedar tree) ~~in extended limits~~
- Cobham, 1938, r.1942 (F.I.S. "GUL")
- McIlvane, 1869, r.1942 (F.I.S. "BERT" Pine tree)
- Vain, 1938, r.1942
- Demon, 1938, r.1942 (F.I.S. "EDA" tree)
- Deep Water Shoals L. H., 1870, r.1942 ~~in extended limits~~
- Hog 2 (U.S.E.) 1930, r.1942 (F.I.S. "BAY" bush)
- Hog 3 (U.S.E.) 1930, r.1942 (F.I.S. "OAK" tree)

The control plotted and the control transferred from adjoining map drawing, which falls just outside the original detail limits is as follows:

- ~~Homewood Light, 1938, r.1942 (in extended limits)~~ T8071
- *Crawford, 1869, 1932, r.1942
- *Slide, 1938, r.1942
- *Tower near Crawford, Flagpole, 1938, r.1942
- *Eustis, 1938, r.1942
- Goose Hill Channel Front Range Light, 1937, r.1942
- Goose Hill Channel Rear Range Light, 1938, r.1942
- ~~Hog 1. (U.S.E.) 1930, r.1942 (F.I.S. "BOX") (in extended limits)~~ T8071
- *Goose (U.S.E.) 1938, r.1942 (F.I.S. "GOS" tree)
- *Mulberry (U.S.E.) 1930, r.1942
- *P.T.S. No. 2, 1918, r.1942
- *P.T.S. No. 17c, 1918, r.1942

*Transferred from adjoining map drawings and indicated with red triangle. All others indicated with black acid ink triangles.

27. RADIAL PLOT

An individual plot was laid for map drawing No. T. 8070.

All common secondary and principal points, previously established by individual plots of adjoining map drawings were transferred to this map drawing by a method acceptable to this office.

The photographs were oriented directly under the map drawing and the positions of the secondary and principal points were established by radial line intersection and resection respectively.

No appreciable difficulties were encountered, except in some areas the identification of the control on the office photographs was more or less uncertain due to the general shore line being paralleled with thickly wooded areas. Deep shadows were also a source of trouble.

A statistical report is included herein which is self-explanatory and it is believed no other discussion is necessary.

28. DETAILING

The shoreline and immediate adjacent culture, have been detailed on this map drawing in accordance with the Director's letters, dated March 26, 1942; July 15, 1942; September 30, 1942; and November 14, 1942; pertaining to Project CS-283. Filed in Div. of Photogrammetry & Office Files

The following excerpt is from the Director's letter dated July 15, 1942:

"Because of the new 20,000 scale mapping that will now cover the entire area from Richmond to the mouth of the James River, this Bureau will not compile, nor publish, complete planimetric maps of this area.

Only the shoreline, and signals for the control of hydrographic surveys will be compiled on a scale of 1:10,000, and copies of your original drawings, without being smooth drafted, will be registered and used on the hydrographic smooth sheets."

The scales of the photographs and this map drawing were in fair agreement. However, it was necessary to use the projector to detail the shoreline of Cobham Bay.

Bluffs have been indicated by the conventional bluff symbol.

A small ravine indicated on the field inspection photographs, in the vicinity of Latitude $37^{\circ} 08' 50''$ and Longitude $76^{\circ} 44' 30''$ could not be identified on the office photographs and has not been detailed, but is noted on the overlay sheet and should be investigated by the hydrographic party.

Positions of detail points, hydrographic stations, topographic stations, and landmarks for charts were established by the usual radial line method. Considerable difficulty was encountered in identifying many of the objects recommended by the field inspection party for hydrographic stations, due to deep shadows cast by trees paralleling the shoreline.

Detail on this map drawing was extended beyond the northern limit thereof, in order to include all of Hog Point. The extended limits have been outlined in red ink on the glossy side of the map drawing. ~~The eastern limit was moved to avoid showing the end of a pier. Pier is shown on T-8859~~
See Review Report

30. MEAN HIGH WATER LINE

The mean high water line, (firm ground) has been detailed, using a heavy weight, solid, black acid ink line, the center of which should be taken as the true position.

A lightweight, solid, black acid ink line, (marsh area) indicates the limits of navigation, and not necessarily the mean high water line.

Most shoreline consists of dirt bluffs, 40 to 60 feet in height, and numerous marsh areas. The greater portion of Hog Island is marsh area and is broken up by numerous ponds and canals.

Important features along the shoreline have been noted on the overlay sheet. Transferred to map manuscript

31. LOW-WATER AND SHOAL LINES

Approximate limits of ^{shallow} ~~shoal~~ areas have been shown on the Map Drawing with light-weight dashed black acid ink lines. Appropriate notes pertaining to such areas have been lettered on the overlay sheet. Such approximate limits as shown are for use of the operating hydrographic party only.

32. DETAILS OFFSHORE FROM HIGH-WATER LINE

All fish traps, piling, etc., the images of which were visible on the photographs, have been detailed and shown on the Map Drawing with the conventional symbols. Descriptive notes ~~pertaining~~ to such features have been lettered on the overlay sheet. *Transferred to map manuscript*

33. WHARVES AND SHORE LINE STRUCTURES

All piers, wharves, bulkheads, dams and other shore line structures have been detailed and shown on the Map Drawing with the conventional symbols accompanied by descriptive notes, which have been lettered on the overlay sheet.

34. LANDMARKS, FIXED AIDS TO NAVIGATION AND AERONAUTICAL AIDS

The positions of the following two landmarks, which were recommended by the Field Inspection Sub-Party, were determined by radial intersection, and submitted on Form 567. They have been shown on the Map Drawing with $2\frac{1}{2}$ mm. black acid ink circles. The names of the landmarks accompanied by the note "landmark" have been lettered on the overlay sheet.

Two landmarks
SILO
GABLE, sharp easterly, large barn

It is recommended that the positions of the following two charted fixed aids to navigation, the existence of which were verified by the Field Inspection Sub-Party, be corrected to agree with the positions listed on the submitted Form 567 (to be charted).

Two fixed aids to navigation
HOMEWOOD LIGHT, 1938, r. 1942 (Triangulation Station)
DEEP WATER SHOALS L.H., 1870, r. 1942 (Triangulation Station)

Form 567 (to be deleted), upon which the incorrect positions of the above fixed aids to navigation have been listed as scaled from Chart No. 529, has been submitted.

~~Chart Letter 704 (48)~~ See Chart Letter 917 (49) Copy enclosed.

35. HYDROGRAPHIC CONTROL

The positions of 8 Recoverable Topographic Stations and 34 ³⁶ temporary hydrographic stations have been determined by radial intersection, and shown on the Map Drawing with $2\frac{1}{2}$ mm. and $1\frac{1}{2}$ mm. black acid ink circles respectively. Descriptions of both classes of these stations have been lettered on the overlay sheet. Form 524 has been submitted for the 8 Recoverable Topographic Stations. *See Review Report*

35. HYDROGRAPHIC CONTROL (cont'd)

89

The/Recoverable Topographic stations are as follows: fms. 524

- 11. 284 Pier, 1942
~~Wharf, south east corner of small wooden wharf~~
- 273 Pine, double, blaze on pine at waters edge, 1942
- 269 Cypress, blaze, northerly of row of cypress in front of pond, 1942
- 265 Cable, sharp easterly, large barn, 1942
- 261 Spruce, small blaze on, at waterline on stretch of sand beach, 1942
- 276 Pine, blaze on, at north side of entrance to lower Chippokes Creek, 1942
- 257 Pine, blaze, at inner end of fish trap, about 150m. from S. end, 1942
~~of wood B.H.~~
- 217 Silo, about 1/3 mi. S. of shoreline of Cobham Bay, about 1 mile, 1942
~~S.E. entrance to College Run.~~
- 83 Derrick, 1942

37. JUNCTIONS

To the South -- T-8069, junction in good agreement.

To the East -- T-8059, ~~water area only.~~ } Junctions ok.
To the North -- T-8071, ~~water area only.~~ }

To the West -- T-8077, junction at later date. Junction ok.

38. RECOMMENDATION FOR FUTURE SURVEYS

This map drawing is believed to be complete in all details of importance for charting, and no additional surveys are deemed necessary.

It is believed, the probable error of radial points and well-defined objects along the shoreline is not greater than 0.5mm. The error of less well-defined objects is not greater than 1.5mm.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

Yorktown, Virginia Quadrangle, U. S. G. S., dated 1932, scale 1:62,500.

Due to scale differences between this map drawing and the above mentioned Quadrangle, a satisfactory comparison could not be made. However, it is observed that at Latitude 37° 10' 20" and Longitude 76° 41' 00" the topographic quadrangle shows a stream. This area is now flooded and in appearance, is more like a sizable lake dotted with small marsh islands.

Over the entire area of Hog Island, obvious changes have taken place; marsh areas in many places are now flooded.

It is recommended, that this map drawing supersede all previous surveys pertaining to shoreline within its limits.

45. COMPARISON WITH NAUTICAL CHARTS

Chart No. 529 U. S. C. & G. S. published Sept., 1940; reissued March 25, 1942; Scale 1:40,000.

45. COMPARISON WITH NAUTICAL CHARTS (cont'd)

A comparison of this map drawing with Chart No. 529 reveals that a road, winding across Hog Point in a Northeasterly direction has been re-located, and is now straight.

Numerous changes have taken place on Hog Island, canals have been cut thru the marsh area, and a flooded condition now appears in many places which were indicated as marsh on the Chart.

An island at the mouth of Lower Chippokes Creek is now connected to the mainland.

Some changes have also taken place in the course of College Run Creek.

It is recommended, that the shoreline as detailed on this map drawing, ~~now~~ supersede all previous surveys, and that Chart No. 529 be revised due to the changes mentioned.

For a discussion of a wreck appearing on the chart at approximately latitude 37° 07.9' and longitude 76° 37.9' see side heading No.45 in the descriptive report for Map Drawing, Survey No.T-8059. ~~Filed in Div. of Photogrammetry~~
~~General Files.~~

Respectfully submitted,
March 30, 1943

Harriet H. Moritz
Harriet H. Moritz
Jr. Photogrammetric Aid

Compilation & Descriptive
Report Reviewed by,

William H. Van Loon
William H. VanLoon
Pr. Photogrammetric Aid

Compilation & Descriptive
Report Supervised by,

Walter E. Schmidt
Walter E. Schmidt
Asst. Photogrammetric Engineer

Approved & Forwarded,
March 31, 1943

Fred. L. Peacock
Fred. L. Peacock, Chief
Air Photographic Party No. 2
March 31, 1943

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Aids to Navigation
LANDMARKS FOR CHARTS

STRIKE OUT ONE
TO BE CHARTED }
TO BE DELETED }

Baltimore, Md. March 23, 1943

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks, be ~~charted on~~ ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing.

Fred. L. Peacock	Chief of Party.
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GENERAL LOCALITY		NAME AND DESCRIPTION		POSITION					METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE		LONGITUDE		DATUM						
				°	'	D. M. METERS	°		'	D. P. METERS				
* Homewood Light				37	11	1182.0 (664.0)	76	40	1074.0 (406.0)	N.A. 1927	Scaled	3/25/42	X	529
* Deep Water Shoals L. H.				37	08	1670.0 (176.0)	76	38	330.0 (1154.0)	"	"	"	X	"
* Positions incorrect Landmarks still exist														
Original filed in Nautical Chart Section 9/16/48														
Chart Letter 709 (48)														
Superseded by Chart Letter 917(49)														

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Aids to Navigation +
LANDMARKS FOR CHARTSTO BE CHARTED } STRIKE OUT ONE
TO BE DELETED }

Baltimore, Md. March 23, 1943

I recommend that the following objects which have ~~been~~ ^{have not} been inspected from seaward to determine their value as landmarks, be charted on (deleted from) the charts indicated.

The positions given have been checked after listing.

Fred. L. Peacock													Chief of Party.	
GENERAL LOCALITY	NAME AND DESCRIPTION	POSITION						METHOD OF LOCATION	DATE OF LOCATION	CHARTS AFFECTED				
		LATITUDE		LONGITUDE		DATUM	HARBOR CHART			INSHORE CHART	OFFSHORE CHART			
		O	I	D. M. METERS	O							I	D. P. METERS	
	Homewood Light	37	11	1163.3 (686.3)	76	40	1074.8 (405.0)	N.A. 1927	Triang.	1938	X	529		
	Deep Water Shoals L. H.	37	08	1708.9 (140.7)	76	38	337.2 (114.3)	"	"	1870	X	"		
	Gable, sharp easterly, large barn	37	11	383.2 (146.4)	76	41	569.8 (910.1)	"	Radial Plot	1942	X	"		
	Silo	37	08	749.2 (100.4)	76	43	590.7 (890.2)	"	"	"	X	"		
		Original filed in Nautical Charts Section												
		9/16/48												
		Chart Letter 709 (48)												
		Superseded by Chart Letter 917 (49)												

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

T-8079

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED STRIKE OUT ONE
~~TO BE DELETED~~

Washington Office

November 8, 1949

I recommend that the following objects which have ~~(marked)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by C. Theurer

Chart Letter 917 (49)

Chart Letter 917 (49)

Chief of Party. S. V Griffith

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE		LONGITUDE		DATUM							
				°	'	D. M. METERS	°		'						
T-8070	Deep Water Shoals Light (1867)			37 08	1708.2	76 38	337.2	NA 1927	Triang. CB-306	1870				529	
	Silo			37 08	749.2	76 43	590.7	"	Photo T-8070	1942				"	
	Cable			37 11	383.2	76 41	569.8	"	Photo T-8070	1942				"	
	Note: See Chart Letters 621(47 and 496(49) for additional Aids to Navigation														
T-8071	Homewood Light (1935)			37 11	1163.3	76 40	1074.8	NA 1927	Triang. CB-310	1938				"	
	Tree Hill Shoal Light			37 12	394.2	76 38	1240.8	"	Photo T-8071	1942				"	
	Note: Tree Hill Shoal Light is not in 1949 Light List. See Chart Letter 621(47)														
	Tower			37 13	598.3	76 39	29.6	NA 1927	Triang. CB-310	1938				"	
	Silo			37 12	1633.0	76 43	798.6	"	Triang. CB-311	1938				"	
	Note: Charted Landmark "SE. Cable" recommended by a later survey. See Chart Letter 555(48)														

S. V Griffith Chief of Party.

A D D I T I O N A L

W O R K

, 1 9 4 4

DATA RECORD

T-8070

Quadrangle (II): Yorktown, Virginia (U.S.G.S.) Project No. (II): C.S. 283

Field Office:
Air Photographic Party No. 2
Baltimore, Maryland

D.E. Sturmer
Chief of Party: ~~Fred. L. Peacock~~

Compilation Office:
Air Photographic Party No. 2
Baltimore, Maryland

Chief of Party: Fred. L. Peacock

Instructions dated (II III):

Copy filed in Descriptive
Report No. T- (VI)

March 26; July 15; Sept. 30; Nov. 14, 1942

Completed survey received in office:

Reported to Nautical Chart Section:

Reviewed:

Applied to chart No.

Date:

Redrafting Completed:

Registered:

Published:

Compilation Scale: 1:10,170

Published Scale:

Scale Factor (III): 0.983284

Geographic Datum (III): N. A. 1927

Datum Plane (III): Mean Sea Level

Reference Station (III): VAIN, 1938, Recovered 1942

Lat.: 37° 10' 16.613" 512.1 M Long.: 76° 42' 04.348" 107.3 M Adjusted
(1337.5) M. (1372.9) m. Unadjusted

State Plane Coordinates (VI):

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
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Same as original data Sheet Form T-1

Tide from (III); Tables of predicted tides, reference station Hampton Roads, Virginia with time correction for Hog Point, Virginia.

Mean Range: 2.1 ft.

Spring Range: 2.5 ft.

Camera: (Kind or source) U. S. Coast & Geodetic Survey nine lens camera (focal length 8.25 in.) All negatives are on file in the Washington Office

Field Inspection by: Lt. Dale E. Sturmer
Additional

date: March 1944

Field Edit by:

date:

Date of Mean High-Water Line Location (III): 11/25 & 11/26/41

Projection and Grids ruled by (III)

date:

" " " checked by:

date:

Control plotted by:

date:

Control checked by:

date:

Radial Plot by:

date:

Detailed by: (Additional) Margaret F. Walworth

date: 6/17/44

Reviewed in compilation office by: Joseph Steinberg
(Additional)

date: 6/17/44

Elevations on Field Edit Sheet
checked by:

date:

STATISTICS (III)

Land Area (Sq. Statute Miles):

Shoreline (More than 200 meters to opposite shore):

Shoreline (Less than 200 meters to opposite shore):

Additional
Number of/ Recoverable Topographic Stations established: X 6

Additional
Number of/ Temporary Hydrographic Stations located by radial plot: 49

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:

ADDITIONAL WORK -- 1944

In accordance with the original instructions for Project C.S. 283 and various supplemental instructions, the field inspection at the lower part of the James River did not at first include complete field inspection of tributary streams. The field inspection of the main river and the mouths of all tributary streams was first completed to Richmond, Va. The completion of the field inspection of tributaries was then carried on from the upper river toward the lower river. The field inspection of tributary streams was completed in the spring of 1944.

In order to assure shore line and hydrographic information in advance of the needs of operating hydrographic parties working in the main river, Map Drawings for the areas of 10 surveys were submitted in advance of completion with respect to tributary streams. Survey No. T-8070 is one of these.

The High-Water Line and marsh line (limit of navigation line) and adjacent planimetry of the portion of James River, falling within the limits of this Map Drawing and its tributaries to the head of navigation in the area, was originally compiled between December 1942 and March 1943.

Since that time the Compilation Office has been furnished the identification of ~~seven~~^{six} additional recoverable topographic stations and forty-nine additional temporary hydrographic stations. These were identified on 1:10,000 field photographs by numbers, and their descriptions were listed in a sketch book, Form 274, Vol. 1, by corresponding numbers. These descriptions combined with those of previously established stations and made part of this report.

These stations were transferred to the 1:10,000 office photographs and radially plotted on the Map Drawing.

Form 524 is being submitted for the ~~seven~~^{six} additional recoverable topographic stations, namely:

- No 212 CONCRETE SILO, 1944
- 252(s) CYPRESS TREE (~~TEMPORARY~~), 1944
- 214 WEST GABLE, 2 STORY HOUSE, 1944
- ~~CHIMNEY OF 2 STORY HOUSE, 1944~~ On T 8069
- 216 SOUTH GABLE, T-SHAPED HOUSE, 1944
- 267(s) SILO, GRAY, 1944
- 213 EAST GABLE, UNPAINTED HOUSE, 1944

After radially plotting the additional temporary hydrographic signals it was necessary to make a few minor changes in the detail, as previously compiled.

Numbers of the new photo-hydro stations are followed by (s)

Respectfully submitted:
June 19, 1944

Margaret F. Walworth
Margaret F. Walworth
Asst. Photogrammetric Aid

Additional work Reviewed and
Supervised by:

Joseph Steinberg
Joseph Steinberg
Asst. Photogrammetric Engineer

Approved and Forwarded:
June 23, 1944

Fred. L. Peacock
Fred. L. Peacock
Chief, Air Photographic Party No. 2

JAMES RIVER, VIRGINIA
Cobham Bay - Lawnes Creek
PART OF PROJECT No. CS-283

List of names, numbers, and descriptions of
the Temporary Hydrographic Stations appearing on
Map Drawing Survey No. 8070.

Number of Temporary Hydrographic Stations 85

Checked
Listed by:

Listed
Checked by:

Charles R. Theurer
Charles R. Theurer v

Harriet H. Moritz
Harriet H. Moritz

- No. See other side of this page
- ✓ 194 (S) Northwest tip of grass at entrance to stream in marsh.
- ✓ 195 (S) 6' bushy pine tree 2 meters inshore from log cribbing.
- ✓ 196 (S) Northwest tip of grass at entrance to stream in marsh.
- ✓ 197 (S) Center of break in grass.
- ✓ 198 (S) Northeast tip of grass at entrance to small creek.
- ✓ 199 (S) Northwest tip of grass at entrance to easterly on two small creeks.
- ✓ 200 (S) Southeast tip of square point.
- ✓ 201 (S) Northwest tip of grass. "Posted" sign on point.
- ✓ 202 (S) Southeast tip of grass, log near tip.
- ✓ 203 (S) 8' lone bushy pine in marsh. Pine is on South side of small creek and approximately 4 meters from its edge.
- ✓ 204 (S) Northwest tip of grass at entrance to very crooked creek.
- 205 (S) Northwest tip of grass at entrance to very crooked creek.
- 206 (S) Northwest tip of grass at entrance to very crooked creek.
- 207 (S) Northwest tip of grass at entrance to very crooked creek.
- 208 (S) Northwest tip of grass at entrance to very crooked creek.
- 209 (S) Northwest tip of grass at entrance to very crooked creek.
- 210 (S) Northwest tip of grass at entrance to very crooked creek.
- 211 (S) Northwest tip of grass at entrance to very crooked creek.
- 212 (S) Northwest tip of grass at entrance to very crooked creek.
- 213 (S) Northwest tip of grass at entrance to very crooked creek.
- 214 (S) Northwest tip of grass at entrance to very crooked creek.
- 215 (S) Northwest tip of grass at entrance to very crooked creek.
- 216 (S) Northwest tip of grass at entrance to very crooked creek.
- 217 (S) Northwest tip of grass at entrance to very crooked creek.
- 218 (S) South tip of grass island.
- ✓ 219 (S) Northwest tip of break 20 meters North of point.
- ✓ 220 (S) North center tip of double break in grassline.
- ✓ 221 (S) Small grass island 1.5 meters long at break in shoreline. Westerly of two. Easterly one has log behind it.
- ✓ 222 (S) Center of break in shore 50 meters West of point and first break from upstream point for about 30 yards coming from point.
- ✓ 223 (S) Bushy pine tree, 20' high, 4 meters upstream from small cedar and 15 meters downstream from dead pine (white trunk).
- ✓ 224 (S) Mast of wreck on beach.
- 225 (S) Southeast tip of grass at break in grassline across and slightly downstream from bluff.
- 226 (S) Northwest tip of grass at stream.
- 227 (S) Southeast tip of grass at small stream in marsh.

80- Pole on W gable of house on pier

81- Dolphin SE of end of pier

82- Dolphin N of end of pier

- 194 (S) Northwest tip of grass at entrance to stream in marsh.
- 195 (S) Northwest tip of grass at entrance to stream in marsh.
- 196 (S) Center of break in grass.
- 197 (S) Northeast tip of grass at entrance to small creek.
- 198 (S) Northwest tip of grass at entrance to easterly on two small creeks.
- 199 (S) Southeast tip of square point.
- 200 (S) Northwest tip of grass. "Posted" sign on point.
- 201 (S) Southeast tip of grass, log near tip.
- 202 (S) 8' lone bushy pine in marsh. Pine is on South side of small creek and approximately 4 meters from its edge.
- 203 (S) Northwest tip of grass at entrance to very crooked creek.
- 204 (S) South tip of grass island.
- 205 (S) Northwest tip of break 20 meters North of point.
- 206 (S) North center tip of double break in grassline.
- 207 (S) Small grass island 1.5 meters long at break in shoreline. Westerly of two. Easterly one has log behind it.
- 208 (S) Center of break in shore 50 meters West of point and first break from upstream point for about 30 yards coming from point.
- 209 (S) Bushy pine tree, 20' high, 4 meters upstream from small cedar and 15 meters downstream from dead pine (white trunk).
- 210 (S) Mast of wreck on beach.
- 211 (S) Southeast tip of grass at break in grassline across and slightly downstream from bluff.
- 212 (S) Northwest tip of grass at stream.
- 213 (S) Southeast tip of grass at small stream in marsh.

No.

- 228 (S) Northwest tip of grass at small stream in marsh.
- 229 (S) Northeast tip of grass at small stream in marsh.
- 230 (S) North tip of grass on North side of round point.
- 231 (S) Northwest tip of grass at stream.
- 232 (S) Northeast tip of grass at break in shoreline.
- 233 (S) Southeast tip of grass at small stream in marsh
75 meters from bluff.
- 234 (S) Center of bare clay patch on bank, 50 meters down-
stream from boat landing.
- 235 (S) Southwest tip of grass at break in shoreline.
- 236 (S) Southeast tip of grass at small stream in marsh.
- 237 (S) West tip of upstream side of point.
- 238 (S) East tip of clump of tall grass sticking out in
stream.
- 239 (S) Southeast tip of grass at stream in marsh.
- 240 (S) Southwest tip of break in center of marsh.
- 241 (S) Northeast tip of small stream in marsh.
- 242 (S) Southwest tip of grass at stream in center of marsh.
- 243 (S) Northeast end of very small dock.
- 244 (S) East tip of grass at small stream, downstream
part of curve.
- 245 (S) End of small skiff dock.
- 246 (S) Southwest tip of grass at large stream in marsh.
- 247 (S) Southeast tip of break in shoreline.
- 248 (S) Southwest tip at small stream.
- 249 (S) Lone tree in marsh, 25 meters back from H.W. line.
- 250 (S) Northwest tip of grass at ditch.
- 251 (S) Southeast tip of grass at stream in marsh.
- 253 (S) Southwest tip of point.

- No.
- 254 (S) Southeast tip of grass on North side of wide break in marsh line.
- 255 (S) Northwest tip of grass at entrance of wide stream in marsh.
- 256 (S) 40' cypress tree on marsh side of bank, at waters edge.
- 240 "Posted" sign on South side mouth Lawnes Creek and at East side entrance to small, crooked creek.
- 241 Low, bushy pine on point.
- 242 One bushy top pine just West of beginning of marsh.
- 243 Small bush at inner end of fish trap on point. Marked by cloth.
- 244 Large, bushy pine in patch of deciduous brush on bluff.
- 244¹ Roots of large pine lying in water on point. 300 meters from its mouth, southerly of a row of pine. ^{Bushy pine on N. side Lawnes Creek, about 300 m. from its mouth, southerly from a row of pine.}
- 249
- 250 Blaze on pine on Northeast side of point and offshore from a line of sand and dead grass. Larger pine in back of this one.
- 252 Blaze on double deciduous tree on small bank on point. Northerly of 2 rocky points.
- 253 Outer end of row of piling.
- 255 Small pine bush on point of marsh. Marked by cloth around trunk.
- 256 Intersection of North end of stake fence in front of small dam and W.L. marked by cloth.
- 257 Stake on marshy point about 100 meters North of edge of pines along shore. Marked by cloth.
- 258 Outer end row of piling, awash M.H.W.
- 259 Lone deciduous tree in cultivated field.
- ~~260 Offshore gable of large house.~~
- ~~261 Northerly gable of red reefed house. Northerly house in area.~~

- No.
- 262 ~~Lone spruce on East side of point.~~
- 263 ~~Cedar on North side of point. Only cedar there.~~
- 264 ~~Cedar in water.~~
- 266 ~~Blaze on large, bushy pine at W.L., just Southwest of a lagoon.~~
- 267 Blaze on lone cypress at water line.
- 268 Blaze on dead tree in water.
- 269½ Blaze on double cypress tree at W.L.
- 270 Blaze on small cypress tree in water off point.
- 271 Blaze on small spruce at W.L. at sand beach.
- 272 Blaze on outermost cypress in group at cypress trees at W.L. on point.
- 274 Large dead pine at W.L.
- 275 Blaze on cypress at W.L. about 300 meters North of mouth of Lower Chippokes Creek.
- 277 Outer end of small landing North side of Lower Chippokes Creek.
- 278 Bush on point of marsh at South side entrance to Lower Chippokes Creek. Marked by cloth.
- 279 Blaze on dead pine at W.L. at small sand beach.
- 280 F.I.S. Gul-Lone cedar on bank East of a clump of trees and gully.
- 281 Small cedar in deciduous bushes on West side of small stream emptying into James River. There are many small cedars across the creek from this one. Marked by a blaze.
- 282 Chimney in center of deserted house.
- 283 Blaze on cypress at W.L. About 100 meters West are two more cypress trees.

GEOGRAPHIC NAMES

Survey No. T-8070

GEOGRAPHIC NAMES										
Survey No. T-8070										
Name on Survey	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
	A	B	C	D	E	F	G	H	K	
<u>Cobham Bay*</u>										1
<u>College Run</u>										2
<u>Hog Island*</u>										3
<u>Hog Point*</u>										4
<u>Homewood</u>										5
<u>James River</u>										6
<u>Lower Chippokes Creek*</u>										7
<u>Walnut Point</u>										8
<u>Lawnes Point*</u>										9
<u>Lawnes Creek*</u>										10
<u>Virginia*</u>										11
<u>Goose Hill (not shown)</u>										12
<u>Castle Mill Run</u>										13
<u>Chestnut Bluffs</u>										14
<u>Bayse Point</u>										15
<u>Drewry Point</u>										16
<u>Homewood Creek</u>										17
<u>Hog Island Creek</u>										18
<u>Hunnicut Creek</u>										19
<u>Mulberry Island</u>										20
<u>Mulberry Point*</u>										21
Decision of the BGN.										
Underlined names approved. 9-9-48. a.j.w.										
										22
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										26
										27

M 234

DIVISION OF PHOTOGRAMMETRY
Review Report of
Shoreline Map Manuscript T-8070

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

28 Detailing

Notes pertaining to features along the shoreline were added to the map manuscript from the overlay and the field photographs.

The features at Hog Point shown on the map manuscript as a pier was changed to a fish trap as indicated by the field inspector.

The limits of the map manuscript were changed to conform with the project layout. The area West of Long. $76^{\circ} 37.5'$ was added to this map manuscript from T-8059. The area North of Lat. $37^{\circ} 11.25'$ will be added to T-8071 during smooth drafting.

34 Landmarks and Aids to Navigation

The original forms 567 changing the positions of two Aids to Navigation and adding two landmarks were filed in the Nautical Charts Section. Duplicates were prepared and added to the descriptive report. Chart Letter 709, 1948. Superseded by Chart Letter 917(49)
Copy enclosed.

37 Recoverable Topographic and Photo-Hydro Stations

A list of the descriptions of photo-hydro stations was prepared and made a part of the descriptive report.

The photo-hydro stations were numbered on the map manuscript.

Names of recoverable topographic stations were shortened on the form 524 cards. The names and dates were added to the map manuscript.

38 State Grids

The state grid, Virginia, South Zone, was plotted on the map manuscript at a 5000 foot interval.

40 Geographic Names

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

43 Comparison with Contemporary Hydrographic Surveys

H-7025	1:10,000	1945
H-7087	1:10,000	1945-47

Fish traps and piles shown on H-7025 near Mulberry point are not visible on the photographs. No discrepancies were noted between the shoreline on the map manuscript and the positions of soundings on the hydrographic sheets.

44 Comparison with Existing Topographic Surveys

USGS · Yorktown Quadrangle 1:62,500 1907 reprinted 1944

T-1290	1:20,000	1873-4
T-1290a	1:20,000	1910
T-1289	1:20,000	1873

~~X T-8318 1:20,000 1944~~ See summary on page 4.

Common features on these surveys are superseded by the map manuscript in all common areas *for nautical charting purposes.*

~~* Corrections were not brought forward to the map manuscript from T-8318~~

45 Comparison with Nautical Charts

Chart No. 529 1:40,000 1944 Corr. 1947

Two recommended landmarks should be added to the chart.

51 Application to Nautical Charts

The map manuscript has been applied to the nautical chart.

Reviewed by:

Charles Theurer
Charles Theurer 16 Sept. 1948

Approved by:

<u>S. V. Griffith</u>	<u>H. C. Edmonston</u>
Chief, Review Section R.N.M.	Chief, Nautical Chart Branch, Division of Charts

<u>O. S. Reading</u>	<u>K. G. Crosby</u>
Chief, Div. of Photogrammetry	Chief, Div. of Coastal Surveys