

8785
Diag'd. on Diag. Ch. No. 1218-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Photogrammetric ^(Planimetric) ~~Shoreline~~
Project No. Ph-7(46)-B
Field No. _____ Office No. T-8785

LOCALITY

State New Jersey
General locality Delaware Bay
Locality Dividing Creek to Needs Beach

1946

CHIEF OF PARTY

Thos. B. Reed

LIBRARY & ARCHIVES

DATE August 13, 1948

DATA RECORD

T-8785

Quadrangle (II):

Project No. (II): PH-7(46)B

Field Office: New Castle, Del.

Chief of Party:

E. L. Jones

Compilation Office:

Chief of Party:

Thos. B. Reed

Baltimore Photogrammetric Office

Instructions dated (II III):

25 March 1946

19 July 1946

Copy filed in Descriptive

~~Report No. T-~~ (VI)

Division of Photogrammetry

Office Files

Completed survey received in office:

10 February 1948

Reported to Nautical Chart Section:

Reviewed: 9 April 1948

Applied to chart No.

Date:

Redrafting Completed:

Registered: 7 May 1948

Published: Vault copy only.

Compilation Scale: 1:20,000

~~Published Scale:~~

Scale Factor (III): 1.000

Geographic Datum (III): N.A. 1927

Datum Plane (III): M.S.L.

Reference Station (III): MATTS, 1935

Lat.: 39° 14' 00.120" 3.7m

Long.: 75° 00' 39.308"

942.8m

Adjusted

~~Unadjusted~~

State Plane Coordinates (VI):

N.J. State Grid:

X = 1,902,483.19 Feet

Y = 145,881.07 Feet

Military Grid Zone (VI)

PHOTOGRAPHS (III)

75th Meridian

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
15615 - 15618	3/21/46	13:35 to 13:42	1/20,000	4.7 above MLW.
15619	"	13:44	"	4.6 " "
15620	"	13:50	"	4.5 " "
15621	"	13:53	"	4.5 " "
6D 1538 to 46D 1542	3/1/46	14:03 to 14:05	1:10,000	1.4 " "

*(Field inspection only)

Tide from (III): Actual observations at Atlantic City with correction to "False Egg Island Point to Dennis Creek".

Mean Range: 5.7 Spring Range: 6.7

Camera: (Kind or source) U.S.C.&G.S. Nine Lens Camera, focal length $8\frac{1}{4}$ " and single lens camera type D.

Field Inspection by: E. L. Jones

date: April to June 1946

Field Edit by: Donald G. Flippo

date: Dec. to Jan. 1948
(1947)

Date of Mean High-Water Line Location (III): Same as date of photographs supplemented by field data obtained April to June 1946.

Projection and Grids ruled by (III) T.L.J.

date: 8/15/46

" " " checked by: T.L.J.

date: 8/15/46

Control plotted by: L. A. Senasack

date: 10/21/46

Control checked by: G.O. Fellers

date: 10/22/46

Radial Plot by: F. J. Tarca
D. M. Brant

date: 10/24/46

Detailed by: J. W. Vonasek

date: 10/31/46 to
1/28/47

Reviewed in compilation office by: R. Glaser

date: 5/5/47 to
5/8/47

Elevations on ^{Manuscript} Field Edit Sheet
checked by: —

date: —

STATISTICS (III)

Land Area (Sq. Statute Miles): 44

Shoreline (More than 200 meters to opposite shore): 31 statute miles.

Shoreline (Less than 200 meters to opposite shore): 37 statute miles,
measured along centerline of streams.

Number of Recoverable Topographic Stations established: 15, one of which
falls on a previously triangulated position and is also recommended as a
landmark.

Number of Temporary Hydrographic Stations located by radial
plot: 2

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:

SCALE FACTOR

[illegible]

1 FT. - 3048006 METER	10/17/46	10/18/46	M. 2388-12
COMPUTED BY: L. A. Semasack			
		CHECKED BY: G. O. Fellers	

MAP T. 8785 PROJECT NO. PH-7(46)B SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ν -COORDINATE LONGITUDE OR κ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	FORWARD (BACK)
			<u>Stations Recovered and Identified</u>						
SHARP, 1935	G-3023 Pg. 319	N.A. 1927	39° 15' 29.302" 74° 59' 36.756"				903.6 881.3	(946.7) (557.3)	
SQUARE BRICK SMOKE STACK, 1935	G-3023 Pg. 329	"	39° 14' 42.157" 74° 00' 16.077"				1300.0 385.5	(550.3) (1053.3)	
MATTS, 1935	G-3023 Pg. 320	"	39° 14' 00.120" 75° 00' 39.308"				3.7 942.8	(1846.6) (496.3)	
Sub. Sta. MATTS		"	39° 13' 75° 00'				1827.2 889.7	(23.1) (549.4)	
LEESBURG, 1932	G-1249 Pg. 14	"	39° 13' 57.765" 74° 57' 47.684"				1781.4 1143.7	(68.9) (295.4)	
Sub. Sta. LEESBURG		"	39° 13' 74° 57'				1744.8 1140.3	(105.5) (298.8)	
LEESBURG STATE PRISON, Farm Water Tank, 1932	G-447 Pg. 24	"	39° 13' 55.850" 74° 57' 50.614"				1722.3 1214.0	(128.0) (225.1)	
EAST, 1933	G-1664 Pg. 65	"	39° 11' 46.142" 75° 01' 30.553"				1422.9 733.2	(427.4) (706.6)	
Sub. Sta. EAST		"	39° 11' 75° 01'				1438.7 748.8	(411.6) (691.0)	
GOSHEN, 1932	G-1249 Pg. 14	"	39° 08' 13.308" 74° 51' 12.195"				410.4 292.9	(1439.9) (1148.1)	
Sub. Sta. GOSHEN		"	39° 08' 74° 51'				380.6 356.6	(1469.7) (1084.4)	

M. 2368.12

1 FT. = 3048006 METERS
COMPUTED BY: L. A. Senasack

DATE 10/17/46

CHECKED BY: G. O. Fellers

DATE 10/18/46

SCALE FACTOR

DISTANCE
FROM GRID OR PROJECTION LINE
IN METERS

FACTOR DISTANCE
FROM GRID OR PROJECTION LINE
IN METERS

DATE 10/18/46

M. 2388-12

FIELD REPORT

MAP MANUSCRIPT SURVEY NO. T-8785

For field report covering this survey, see original Field Report for Surveys Nos. T-8784 and T-8785, submitted to Washington office February 3, 1947.

*Field inspection report for T-8784 and T-8785
is included in the descriptive report
for T-8784.*

COMPILATION REPORT

MAP MANUSCRIPT SURVEY NO. T-8785

26. CONTROL:

Refer to the radial plot report for a layout of control in this area. Additional information relative to the control is contained on Form No. M-2388-12 included in this report.

27. RADIAL PLOT:

The radial plot for the area of this survey is part of a combined plot covering the area of Surveys Nos. T-8784 and T-8785. Report for this radial plot was submitted to the Washington Office on 26 November 1946.

28. DELINEATION:

Attached to Desc.
Report T-8784

~~Filed in Div. Photogrammetry~~
~~General Files.~~

The compilation is in accordance with the written instructions pertaining to Project Ph-7(46) dated 19 July 1946. Filed in Div. Photogrammetry Office Files.

The photographs were satisfactory for office delineation. Delineation of the entire marsh area and the inshore limit marsh was based on office interpretation of the photographs because these features were not field inspected.

Three streams at the mouth of Maurice River were identified in the field as intermittent streams. They appear so large compared with the greater part of the drainage shown that this is believed to be incorrect. They are delineated as perennial streams.

29. SUPPLEMENTAL DATA:

None

30. MEAN HIGH-WATER LINE:

The mean high-water line and the marsh line (outer limits of marsh visible at M.H.W.) were identified by the field party. Approximately forty percent of the marsh line however, was identified only by a note locating its position as "along grass line" or "along top of low bluff". These areas were delineated by office interpretation using the field notes as a guide.

In those areas where the field data located the marsh line by use of a note as well as a line, stereoscopic examination revealed that in some places the line was in slight disagreement with the note. These areas were delineated based upon use of the note.

Refer to letter of 30 Dec. 1947 -
subject: Shoreline. - attached to
this report.

31. MEAN LOW WATER LINE:

Approximately 20 percent of the mean low-water line was identified by the field party and it has been delineated only in those areas where it was inspected.

32. DETAILS OFFSHORE FROM THE MEAN HIGH WATER LINE:

Seven wrecks have been delineated along the shores of Maurice River.

33. WHARVES AND SHORELINE STRUCTURES:

No comment.

34. LANDMARKS AND AIDS TO NAVIGATION:

Refer to Forms 567 attached to this report.

Chart letter 303 (1947)
Filed in Div. of Charts.

The dome of an abandoned light house at East Point was recommended by the field party as a landmark and was also submitted as recoverable topographic station, "FAST" on form 524. This abandoned lighthouse is also the triangulation station, EAST POINT LIGHT (N.J.) 1933.

524 card discarded, Replaced by Form 526, Triangulation Recovery Card

Three 3-point sextant fixes were taken by the field party (see field report heading No. 11 - LANDMARKS AND AIDS TO NAVIGATION) in order to establish an azimuth on the Maurice River Range.

These points have been plotted on the map manuscript.

35. HYDROGRAPHIC CONTROL

2 Hydrographic Signal Sites.

36. A list of the descriptions of the hydrographic signal sites is attached to this report.

36. LANDING FIELDS AND AERONAUTICAL AIDS:

None.

37. GEOGRAPHIC NAMES

814 ✓
Geographic names have been taken from final name standards dated 12/9/46, furnished by the Washington Office. List of approved names attached to this report.

See also item 18 of the field report for Surveys Nos. T-8784 and T-8785.

A list of the geographic names on the manuscript is attached to this report.

38. JUNCTIONS:

A satisfactory junction was made with Survey No. T-8784 to the west. There are no contemporary surveys to the north, east or south of this survey.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

T-8785 has been compared in detail with the Corps of Engineers, Port Norris, N. J. Quadrangle, scale 1:62,500, 1940-41, and the Army Map Service, Dennisville, N. J. Quadrangle, scale 1:50,000, 1946.

Within the common area of the two surveys, T-8785 is complete for all planimetric details shown on the quadrangles.

45. COMPARISON WITH NAUTICAL CHARTS:

T-8785 has been compared in detail with chart No. 1218, scale 1:80,000, published January 1942, corrected to July 12, 1946.

The following topographic information shown on T-8785 is of sufficient importance to warrant immediate application to the chart:

Seven wrecks along the shores of Maurice River.

The following topographic details above the plane of mean high-water are not shown on this manuscript, but are believed to still exist and should be carried forward on the chart:

None.

Low water features are shown only in part and will be completed by the hydrographic party.

Respectfully submitted:
8 May 1947

Joseph W. Vonack
Photogrammetric Engineer
Compilation and
Compilation Report

Harry R. Rudolph
Supervisor

Samuel H. Hsu
Photogrammetric Aid
Photogrammetric Office Review

Approved and Forwarded
13 May 1947.

Thos. B. R. J.
Officer in Charge
Baltimore Photogrammetric Office

Field Edit Report of Map Manuscript T-8785
Project Ph-7(46)
R. J. Sipe, Chief of Party

The field edit of this shoreline manuscript was accomplished during the period 5 December 1947 to 8 January 1948 by Donald G. Flippo, Photogrammetric Aid. All work was done in accordance with the field edit instructions for project Ph-7(46), dated 24 August 1945 and supplemental field instructions.

7. Mean High-Water Line: Considerable difficulty has been encountered in the clarification of the shoreline in this area. The compiler had interpreted the shoreline differently in many cases to that outlined by the field inspector. It was found in inspecting the shoreline on field edit that the field inspector was right in most cases. This has been corrected on the field edit sheet and also an explanatory note can be found on field photograph No. 15616.

14. Road Classification: Roads on this sheet were reclassified in accordance with Amendment to Photogrammetry Instructions No. 10, dated 10-24-47.

46. Methods: All delineated features such as roads, structures, and drainages were checked either visually by driving along roads or trails or by planetable method.

Delineation and some additions were made directly on the field edit sheet. Some additions and corrections were noted on the photographs with a reference to the photograph on the field edit print. A legend to the symbols and to the colored ink used during the field edit is on the field edit print.

47. Adequacy of the Compilation: No compiled roads or trails were deleted during the field edit. Several marsh roads were not deleted as they are important as haying roads and are used extensively by hunters and trappers. Very few structures have been deleted but several have been added to the field edit print

The relative position of compiled detail was found to be entirely satisfactory. With the addition of the field edit data to the manuscript, this map will be complete and accurate.

48. Accuracy Tests: No vertical accuracy test was made as this is a shoreline manuscript.

The field edit party has made no attempt to verify the horizontal accuracy of this map.

49. Review of First Proof: The following gentleman has expressed his willingness to review the first proof:

Mr. George M..Lehmuth
P.O. Box 32
Port Norris, New Jersey

Respectfully submitted

Donald G. Flipppo
Photogrammetric Aid
8 December 1948

Don.

Division of Photogrammetry
Review Report of
~~Shoreline Map Manuscript T-8785~~
~~Planimetric~~

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

34. Landmarks and Aids to Navigation.--The recoverable topographic station Cox, 1938 which is also a recommended landmark listed on form 567 was relocated on the map manuscript to agree with the position as shown on the field inspection photograph. The new position is approximately 30 meters east of the original location. *DMS DPs*
The correction in geographic position has been noted on the 524 *Corrected*
card in red ink. *in Div. of Photogrammetry* *Lat. 39°10' + 1593m. on L-303(1947)*
Long 74°55' + 1252m. L.S.S. 9/19/52

43. Comparison with Previous Surveys.--

T-152	1:20,000	1842
T-153	1:10,000	1842
T-154	1:10,000	1842
T-157	1:20,000	1842
T-1549b	1:20,000	1883-4
T-4668	1:10,000	1931-2
T-5650	1:10,000	1932

Common features on these surveys are superseded by the map manuscript in all common areas.

44. Comparison with Existing Topographic Surveys.--

Vineland, Del.-N. J.	U.S.G.S.	1:125,000	1886-96
Dennisville, N. J.	U.S.G.S.	1:62,500	1884
Maurice Cove, N. J.	U.S.G.S.	1:62,500	1886
Dennisville, N. J.	U.S.E.	1:62,500	1940-41
Port Norris, N. J.-Del.	USE.	1:62,500	1940-41
Dennisville, N. J.	A.M.S.	1:50,000	1946

45. Comparison with Nautical Charts.--

Chart No. 1218, 1:80,000, 12-8-47

This map manuscript has not been applied to nautical chart 1218.

Reviewed by:

K. N. Maki
K. N. Maki
4-9-48

Reviewed under direction of:

S. V. Griffith
S. V. Griffith
Chief, Review Section

APPROVED BY:

B. J. Jones 5/48
Technical Assistant to the
Chief, Division of Photogrammetry

K. T. Adams
Chief, Div. of Photogrammetry

[Signature]
Chief, Nautical Chart Branch
Division of Charts

C. H. Green
Chief, Div. of Coastal Surveys

NOTE TO OFFICE REVIEWER

MAP MANUSCRIPT T - 8785

PROJECT PH-7(46)

15. BRIDGES

From the information given by the field edit party for the bridge over Bidwell Ditch (lat. $39^{\circ} 07' 00''$, long. $74^{\circ} 52' 00''$), it appears that this bridge is the same as the one located on Biddle Creek, N. J. and listed on page 30 in the "List of Bridges Over Navigable Waters", dated July 1941. If these bridges are the same, there is a discrepancy in the vertical clearances. From the field edit information, they were determined to be 1.7' above MHW and 7.3' above MLW, while in the "List of Bridges" they are given as 3.3' and 8.39' respectively.

*Bidwell Ditch was formerly
Bidwell Creek, 814
(Decision USB & N) L.H.
1944)*

Respectfully submitted
6 February 1948

Madge S. Nottenburg
Cartographer (Photogrammetric)

Approved and forwarded
February 1948

Officer in Charge
Baltimore Photogrammetric Office

Letter to the local Dist. Eng'r. being prepared
by the Review Section.

5/7/48

30 December 1947

To: Lt. Comdr. Thomas E. Reed
U. S. Coast and Geodetic Survey
518 East Thirty-second Street
Baltimore 18, Maryland

Subject: Shoreline

During the recent inspection of field work on project Ph-7(46) by Lt. Comdr. E. L. Jones, an opportunity afforded itself to investigate a section of shoreline on the New Jersey side of lower Delaware Bay which has caused considerable extra work and concern, first to the field inspection party, then to the compilation office, and now to the field edit party.

The field inspection of shoreline sheets in question, Nos. T-8784 and T-8785, was made by Mr. E. O. Bryant and later revised by the supervisor, Mr. George E. Varnadoe. The office interpretation of this shoreline, which did not completely follow the field inspection, was made by your office. Since this stretch of shoreline has already caused more concern than is warranted and since similar situations may arise in the future, a discussion of the correct procedure in handling matters such as this may be of interest to all concerned.

As previously stated in my letter of 21 February 1947, the compilation office should not blindly follow the field inspection. They should, and must, feel free to question the field inspection and make changes where the inspection is obviously in error. Where there is a matter of interpretation involved, the compilation office should follow the field inspection, and request clarification either from the inspection party or the field edit party. If the compilation office still does not agree, then the matter should be referred to the Review Section of this office for final decision. In all cases, the matter must be fully discussed in the field and office descriptive reports.

30 December 1947

As a result of a recent investigation of the shoreline in the vicinity of Moores Beach, New Jersey, on manuscript No. T-8785 the apparent shoreline as originally indicated by the field inspector should be shown on the manuscript instead of the shoreline as interpreted in the Baltimore Office. The field editor has investigated this section of the shoreline in several places and found the original field inspection to be correct. The field editor will indicate on the field edit copy the sections of shoreline which are to be changed to conform to the original field inspection.

No further examination by the field editor of this particular question is thought to be necessary. However, should a similar conflict with the field inspection interpretation arise in another part of the project, you should not hesitate to request examination by the field editor.

(Signed) K. T. Adams

K. T. Adams
Chief, Division of Photogrammetry

cc: Lt. Comdr. Sipe
Mr. Flippo

GEOGRAPHIC NAMES
FOR
MAP MANUSCRIPT T-8785

Undisputed

- | | |
|---|---|
| ✓ • Basket Flat . | ✓ • Matts Landing |
| ✓ • Bivalve . | ✓ • Maurice River . |
| ✓ • Bidwell Ditch . | ✓ • Maurice River (village) . |
| ✓ • Central Railroad of New Jersey .
(Cumberland & Maurice River Railroad) | ✓ • Maurice River Cove . |
| ✓ • Crow Creek . | ✓ • Maurice River Neck . |
| ✓ • Delaware Bay . | ✓ • Moores Beach . |
| ✓ • Dennis Creek . | ✓ • New England Creek . |
| ✓ • East Creek . | ✓ • Old Robins Branch . |
| ✓ • East Point . | ✓ • Pennsylvania Reading Seashore Lines . |
| ✓ • Elder Point . | ✓ • Port Norris . |
| ✓ • Fowler Island . | ✓ • Reeds Beach . |
| ✓ • Goshen . | ✓ • Riggins Ditch . |
| ✓ • Goshen Creek . | ✓ • Shellpile . <i>South Port Norris</i> |
| ✓ • Goshen Landing . | ✓ • Sluice Creek . |
| ✓ • Hansey Creek . | ✓ • Stipson Island . |
| ✓ • Hay Press Island . | ✓ • Thompson Beach . |
| ✓ • Indian Creek . | ✓ • West Creek . |
| ✓ • Kenny Point . | ✓ • West Creek Landing . |
| | ✓ • Wilson Run . |
| ✓ • East Creek . (village) | ✓ • State 49 . |
| ✓ • Eldora . | ✓ • State 549 . |
| ✓ • Heislerville . | |
| ✓ • Delmont . | |
| ✓ • St. Elizabeth church . | |

Names preceded by • are
approved. 4/5/48.
L. Heck

NOTES
FOR
HYDROGRAPHIC PARTIES
MAP MANUSCRIPT SURVEY NO. T-8785

PROJECT No. Ph-7(46)

The two millimeter circles, accompanied with a name and date are the positions of the recoverable photo (topographic) stations. Such circles accompanied with a number are the positions of the hydrographic signal sites. Two copies of the list of descriptions of the hydrographic signal sites have been furnished for your use.

This survey has been compared in detail with chart No. 1218, scale 1:80,000, published January 1942, corrected to July 12, 1946.

The following topographic information shown on T-8785 is of sufficient importance to warrant immediate application to the chart:

Seven wrecks along the shores of Maurice River.

The following topographic details above the plane of mean high-water are not shown on this manuscript, but are believed to still exist and should be carried forward on the chart:

None.

Low water features are shown only in part and will be completed by the hydrographic party.

Joseph W. Mascek

Photogrammetric Engineer
Compilation and
Compilation report.

Henry R. Rudolph
Supervisor

Raymond G. Stark

Photogrammetric Aid
Photogrammetric Office Review

Approved and forwarded
13 May 1947

Thos. O. Baird

Officer in Charge
Baltimore Photogrammetric Office

LIST OF HYDROGRAPHIC SIGNAL SITES

<u>Site No.</u>	<u>Description</u>	<u>Pricked on Photo. No.</u>
8501	Station is southeast gable of a two story unpainted house with tin roof.	1540
8502	Station is the south gable of a two story red top house.	1540

Listed by

Joseph W. Orack
Photogrammetric Engineer

Checked by

Raymond E. Hawn