

8773

Diag. Cht. No. 294

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey PHOTOGRAMMETRIC SHORELINE

Field No. PH-7(16)C Office No. T-8773

LOCALITY

State NEW JERSEY AND DELAWARE

General locality DELAWARE RIVER

Locality NEW CASTLE TO CARNEY POINT

194 9

CHIEF OF PARTY

E. L. Jones, Chief of Party

T.B. Reed, Baltimore Photogrammetric Office

LIBRARY & ARCHIVES

DATE October 17, 1951

B-1870-1 (11)

8773

DATA RECORD

T- 8773

Quadrangle (II): *New Castle - Carney Point* Project No. (II):
Ph-7(46)C

Field Office: Camden, N. J. Chief of Party: E. L. Jones.

Compilation Office: Baltimore Photogrammetric Office. Chief of Party: Thos. B. Reed

Instructions dated (II III):
25 March 1946, 19 July 1946

Copy filed in *Div. of Photogrammetry*
Report No. T- (VI)

Completed survey received in office: *9-9-47*

Reported to Nautical Chart Section: *9-16-47*

Reviewed: *12/2/49* Applied to chart No. Date:

Redrafting Completed:

Registered: *9-25-51*
3-19-51 Published: *April 1951*

Compilation Scale: 1:10,000 Published Scale: 1:10,000

Scale Factor (III): 1.000

Geographic Datum (III): N.A. 1927 Datum Plane (III): *MWW*

Reference Station (III): DYE, 1933

Lat.: 39° 41' 41.275 1273.0m. Long.: 75° 30' 31.928 760.7 m Adjusted
~~Unadjusted~~

State Plane Coordinates (VI): *Delaware and New Jersey*

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)
75th meridian

Number	Date	Time	Scale	Stage of Tide
D-2008 - D-2013	3/12/46	1312	1:10,000	1.3 above MLW
D-2014 - D-2019	3/12/46	1320	"	1.3 " "
D-2036 - D-2041	"	1345	"	0.9 " "
D-2029 - D-2031	"	1338	"	1.0 " "
D-2049 - D-2050	"	1352	"	0.9 " "

Tide from (III): Actual tide observations at Philadelphia corrected to "Oldmans Pt. to New Castle.

Mean Range: 5.3' Spring Range: 5.8'

Camera: (Kind or source) U.S.Coast and Geodetic Survey single lens camera wide angle, type "D" focal length 12"

Field Inspection by:

date:

E.L.Jones

April to Sept. 1946

Field Edit by: R.A. Horn - see Field Edit Reports for T-8751 and T-8752.

date: 1949

Date of Mean High-Water Line Location (III): Same as date of photographs supplemented with field inspection obtained from April to September 1946.

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

date: 8-9-46

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

date: 8-9-46

Control plotted by: L.A.Senasack

date: 1-20-47

Control checked by: G.O.Fallers

date: 1-21-47

Radial Plot by: D.M.Brant

date: 7-47

Detailed by: D.M.Brant

date: 7-16-47 to 8-22-47

Reviewed in compilation office by: J.W.Vonasek

date: 8-25-47 to 9-8-47

Elevations on Field Edit Sheets checked by: J.W.Vonasek

date: 8-29-47

STATISTICS (III)

Land Area (Sq. Statute Miles): 10

Shoreline (More than 200 meters to opposite shore): 8

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

Number of Recoverable Topographic Stations established: ~~86~~ *See T-8751*

Number of Temporary Hydrographic Stations located by radial
plot: None

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-8773

This is one of a series of 24 shoreline maps in Project Ph-7(46) covering both sides of the Delaware River from Trenton, New Jersey and extending southward to lower Delaware Bay.

These shoreline sheets at a scale of 1:10,000 are to furnish material for revision of the nautical chart for this area, and, for a series of 18 topographic compilations at a scale of 1:20,000 which are to be published by the U. S. Geological Survey, as standard topographic quadrangles at 1:24,000. This map has furnished shoreline information for two of these topographic compilations, specifically, T-8751 and T-8752.

FIELD REPORT

SHORELINE MANUSCRIPT, SURVEY NO. T-8773

The area of this shoreline survey is within the limits of topographic surveys Nos. T-8751 and T-8752. For field data concerning Survey No. T-8773 refer to the field reports of the above mentioned topographic surveys.

RADIAL PLOT REPORT

PROJECT NO. Ph-7(46)-C

DELAWARE RIVER

SURVEY NO. T - 8773

1. GENERAL DESCRIPTION

Survey No. T-8773 is one of 12 shoreline maps in sub-project No. Ph-7(46)-C, located along the Delaware River between Carneys Point, N.J. and New Castle, Delaware. This survey will be compiled in accordance with instructions dated 25 March 1946 and 19 July 1946 by graphic photogrammetric methods.

2. LAYOUT

The layout of the map, horizontal ground control and photograph centers are shown on the attached sketch.

3. PHOTOGRAPHS

The photographs used in this radial plot were taken with the U. S. Coast and Geodetic Survey wide angle Type D camera, focal length 12 inches, at contact scale of 1:16,000, ratioed to a scale of 1:10,000.

4. MANUSCRIPTS

The projection for this radial plot was ruled with polyconic projections, scale 1:10,000, New Jersey State Grids, and Delaware State Grids (5000 foot intervals). The projection and grid lines were ruled with the ruling machine and checked in the Washington Office.

5. CONTROL

Since sufficient previously established horizontal control stations were available, no new control stations were established.

6. FIELD INSPECTION

The field identification of the horizontal control with the exception of station NEWPORT ARTISAN WATER CO., SQUAT SILVER WATER TANK, 1933, was good. From results of the radial plot it was found that the station identified as NEWPORT ARTISAN WATER CO. SQUAT WATER TANK, 1933, was actually control station NEWPORT MUNICIPAL WATER TANK, 1933. Another water tank identified in the compilation office as control station NEWPORT ARTISAN WATER CO., SQUAT SILVER WATER TANK, 1933, was held in the radial plot.

7. SUMMARY

An additional control station in the southeastern section of the map would have been desirable to control the end of the flight of photographs at the southeastern corner of the map.

Additional flights of photographs in the southern and western areas of the map would also have been desirable.

DETAILS OF RADIAL PLOTTING

8. The field party recovered 20 of 22 horizontal control stations in the area of this plot, 8 of which were identified. Two of the unrecovered stations, namely, NEW CASTLE "BREDE" BRICK STACK, 1933, and CHRISTINA RIVER SOUTH ENTRANCE LT., 1933, were destroyed. Twelve of the recovered stations were pricked in the compilation office and used to control the plot.
New Castle "Bredt" Brick Stack, 1933 retained - see field report for T-8751

In addition to the horizontal control plotted on the projection sheet, several pass points previously established by radial intersection on the 1:20,000 scale radial plot covering the same area were transferred to the projection sheet for this survey by the following method: Points to be transferred were fixed by radials drawn on celluloid templets from each point through intersections of projection lines, intersections of state grid lines, or the intersection of a projection line with a state grid line. A minimum of four radials were drawn on each templet. Each templet was then superimposed on the 1:10,000 projection sheet with the radials, which had been extended for scale difference passing through their corresponding projection line or grid line intersections. The pass point was then pricked through the templet to the 1:10,000 scale projection sheet.

All pass points common to Survey No. T-8774 to the south were also transferred to Survey No. T-8773 and used in the radial plot.

9. The radial plot was then made by placing each photograph directly beneath the projection sheet and orienting on the horizontal control and pass points. All of the horizontal control as identified by the field party or in the compilation office was held to tangentially or better, except as noted in paragraph 6 of this report.

10. The positions of all new pass points as determined by the intersection of radials and the positions of all photograph centers as determined by resection were then pricked directly on the projection sheet.

11. The positions of all pass points and photograph centers are within 0.5 mm of their correct geographic positions.

REMARKS

12. The identification of horizontal control and substitute stations was very good.

The horizontal control station identified as NEWPORT ARTISAN WATER CO.

SQUAT SILVER WATER TANK, 1933, held to the geographic position of control station NEWPORT MUNICIPAL WATER TANK, 1933, while another tank identified in the compilation office held to the geographic position for station NEWPORT ARTISAN WATER CO. SQUAT SILVER WATER TANK, 1933.

The photographic coverage for shoreline delineation was adequate; however, additional controlled flights would have increased the accuracy of the radial plot.

Respectfully submitted
22 August 1947

Harry R. Rudolph
Supervisor

Approved and Forwarded
12 September 1947

Thos. J. Anderson
Officer in Charge
Baltimore Photogrammetric Office

MAP T-8773

PROJECT NO. Ph-7(46)-C

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR x -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)	
NEWPORT, MUNICIPAL WATER TANK, 1933	G Pg. 1751 120	N.A. 1927	39° 42' 58.243"				1796.3	(54.2)	
NEWPORT, KREBS CO., STACK, 1933	" 121	"	75° 36' 34.528"				822.4	(606.7)	
NEWPORT, KREBS CO., SQUAT WHITE WATER TANK, 1933	" " "	"	39° 42' 41.141"				1268.8	(581.6)	
NEWPORT, AZIMUTH MARK, 1933	" " "	"	75° 36' 38.167"				909.2	(520.0)	
	" " "	"	39° 42' 38.846"				1198.0	(652.4)	
	" " "	"	75° 36' 43.211"				1029.3	(399.9)	
	" " "	"	39° 42' 38.153"				1176.7	(673.8)	
	" " "	"	75° 36' 32.679"				778.4	(650.8)	
NEWPORT, 1933	" 73	"	39° 42' 14.151"				436.4	(1414.0)	
Sub. Sta. NEWPORT	"	"	75° 36' 33.436"				796.6	(632.8)	
	"	"	39° 42' 11.598"				357.7	(1492.7)	
	"	"	75° 36' 35.586"				847.8	(581.6)	
ATHRAY BEACON NO. 66-A, 1933	" 121	"	39° 42' 11.206"				345.6	(1504.9)	
	" 121	"	75° 31' 48.411"				1153.3	(276.1)	
CARNEYS POINT DU-POINT POWDER CO., TALL BLACK WATER TANK, 1933	" 120	"	39° 42' 48.955"				1494.4	(356.1)	
	"	"	75° 29' 19.094"				454.8	(974.4)	
CARNEYS POINT DU-POINT POWDER CO., BRICK STACK, 1933	" 120	"	39° 42' 42.591"				1313.5	(536.9)	
CARNEYS POINT WATER TANK, 1933	" 121	"	75° 29' 25.894"				616.8	(812.4)	
	" 121	"	39° 42' 36.111"				1113.7	(736.7)	
	" 121	"	75° 28' 24.834"				591.6	(837.7)	
DEEPWATER POINT BEAR, RANGE LT., 1933	" 121	"	39° 41' 59.067"				1821.7	(28.7)	
	" 121	"	75° 29' 38.212"				910.4	(519.1)	

COMPUTED BY L.A. Senasack

DATE 1/17/47

CHECKED BY G.O. Fellers

DATE 1/20/47

M-2388-12

MAP T: 8773 PROJECT NO. Ph-7(46)C SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ν -COORDINATE LONGITUDE OR x -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)
DELAWARE STATE HOSPITAL TALLER WATER TANK, 1933	G-1751 Pg. 121	N.A. 1927	39° 41' 56.313" 75° 34' 38.066"			1736.7 (113.7) 906.9 (522.6)	
DYE, 1944	G-1664 73	"	39° 41' 41.275" 75° 30' 31.928"			1273.0 (577.5) 760.7 (668.9)	
SUB. STA. DYE		"	39° 41' 41.273" 75° 30' 32.024"			1272.9 (577.6) 763.0 (666.6)	
DEEPWATER, DUPONT DYE WORKS, N. TWIN STACK, 1933	G-1751 122	"	39° 41' 13.095" 75° 30' 21.854"			403.9 (1446.6) 520.8 (908.9)	
DEEPWATER, DUPONT DYE WORKS, SOUTH TWIN STACK, 1933	"	"	39° 41' 11.768" 75° 30' 21.858"			362.9 (1487.5) 520.9 (908.8)	
DEEPWATER TALL BLACK WATER TANK, 1933	"	"	39° 41' 00.181" 75° 29' 36.236"			5.6 (1844.8) 863.5 (566.3)	
DEEPWATER, OPERATING CO. NORTHERNMOST OF THREE STACKS, 1933	"	"	39° 41' 00.904" 75° 30' 32.892"			27.9 (1822.5) 783.8 (646.0)	
DEEPWATER, OPERATING CO. SOUTHERNMOST OF THREE STACKS, 1933	"	"	39° 40' 58.711" 75° 30' 33.471"			1812.6 (37.9) 797.6 (632.2)	
DEEPWATER, OPERATING CO. SQUAT BLACK WATER TANK, 1933	"	"	39° 40' 51.400" 75° 30' 31.664"			1585.2 (265.2) 754.6 (675.3)	
HARE, 1933	G-1664 57	"	39° 40' 35.034" 75° 36' 05.740"			1080.5 (770.0) 136.8 (1293.2)	
NEW CASTLE, AIRPORT AIRWAY BEACON No. 65 GREEN FLASH, 1933	G-1751 123	"	39° 39' 51.632" 75° 35' 20.226"			1592.4 (258.0) 482.1 (948.1)	
DEEPWATER, DUPONT DYE WORKS ALCOHOL PLANT STACK, 1933	G-1751 121	"	39° 41' 38.261" 75° 30' 20.710"			1180.0 (670.4) 493.5 (936.1)	

1 FT. = 3048006 METERS
COMPUTED BY: L.A. Senasack
CHECKED BY: G.O. Fellers
DATE 1/17/47
DATE 1/20/47
M-2388-12

MAP T-8773

PROJECT NO. Ph-7(46)C

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR LONGITUDE OR x-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	
NEW CASTLE MUNICIPAL STAND- PIPE, 1933	G-1751 Pg. 123	N.A. 1927	39°	40'	13.828"				426.5 (1424.0)			
NEW CASTLE, DEEMER STEEL CO. SQUARE STACK, 1933	G-1751 Pg. 124	"	75°	33'	42.389"				1010.3 (419.8)			
NEW CASTLE, BELLANCA AIRPORT, SQUAT WATER TANK 1933	G-1751 Pg. 123	"	39°	39'	40.672"				1254.4 (596.1)			
NEW CASTLE "Credit" brick stack, 1933			75°	34'	33.549"				799.7 (630.6)			
NEW CASTLE, EMMANUEL PROTESTANT EPISCOPAL CHURCH SPIRE, 1933	G-1751 Pg. 123	"	39°	39'	38.854"				1198.3 (652.1)			
			75°	35'	09.935"				236.8 (1193.5)			
			39°	40'	13.587"							
			75°	33'	21.514"							
			39°	39'	38.370"				1183.4 (667.0)			
			75°	33'	46.985"				1120.0 (310.3)			
NEW CASTLE, MASONIC TEMPLE, BELFRY, 1933	G-1751 Pg. 123	"	39°	39'	36.296"				1119.4 (731.0)			
			75°	33'	54.351"				1295.6 (134.7)			
NEW CASTLE, COURT- HOUSE, 1892	G-1923 Pg. 44	"	39°	39'	34.932"				1077.3 (773.1)			
			75°	33'	50.306"				1199.2 (231.1)			
NEW CASTLE, (U.S.E.) 1900	G-1664 Pg. 79	"	39°	39'	30.330"				935.3 (915.0)			
			75°	33'	33.882"				807.7 (622.7)			
NEWPORT, ARTISAN WATER CO. SQUAT SILVER WATER TANK, 1933	G-1751 Pg. 124	"	39°	43'	24.041"				741.4 (1109.0)			
			75°	36'	32.881"				783.1 (645.9)			
WILMINGTON, TANNING CORP. CONCRETE STACK, 1933	G-1751 Pg. 120	"	39°	42'	55.428"				1709.5 (141.0)			
			75°	31'	42.275"				1006.9 (422.2)			

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

DATE 1/20/47

CHECKED BY: G.O. Fallers

DATE 1/20/47

M-2388-12

LIST OF CONTROL
PROJECT PH-7(46)-C
SURVEY NO. T-8773

No.	Name of Station	Method of Identification
365 ✓	CARNEYS POINT, DUPONT POWDER CO. TALL BLACK WATER TANK, 1933	Pricked direct
366 ✓	CARNEYS POINT, DUPONT POWDER CO. BRICK STACK, 1933	Pricked direct
367 ✓	CARNEYS POINT WATER TANK, 1933	Pricked direct in compilation office
368 ✓	DEEPWATER POINT REAR RANGE LIGHT, 1933	Pricked direct
399 ✓	WILMINGTON TANNING CORP. CONCRETE STACK, 1933	Pricked direct in compilation office
407 ✓	NEWPORT ARTISAN WATER CO. SQUAT SILVER WATER TANK, 1933	Pricked direct. Reidentified in compilation office.
410 ✓	NEWPORT, 1933	Sub. Point.
411 ✓	NEWPORT KREBS CO STACK, 1933 Also Water Tank	Pricked direct in compilation office.
412 ✓	NEWPORT MUNICIPAL WATER TANK, 1933	Pricked direct
413 ✓	DELAWARE STATE HOSPITAL TALLER WATER TANK, 1933	Pricked direct in compilation office
415 ✓	DYE, 1933	Sub. Pt.
416 /	DEEPWATER DUPONT DYEWORKS ALOCHOL PLANT STACK, 1933	Pricked direct in compilation office.
417 ✓	DEEPWATER, DUPONT DYEWORKS NORTH TWIN STACK 1933	Pricked Direct in compilation office
417 ✓	DEEPWATER, DUPONT DYEWORKS SOUTH TWIN STACK 1933	" " " "
418 /	DEEPWATER OPERATING CO. N. STACK 1933 S. STACK 1933	Pricked direct in comp. office. " " " "
419 ✓	DEEPWATER OPERATING CO. SQUAT BLACK WATER TANK, 1933	Pricked direct in comp. office

<u>No.</u>	<u>Name of Station</u>	<u>Method of Identification</u>
420 ✓	DEEPWATER OPERATING CO. TALL BLACK WATER TANK, 1933	Pricked direct.
422 ✓	NEW CASTLE MUNICIPAL STANDPIPE, 1933	Pricked direct in comp. office.
424 ✓	NEW CASTLE MASONIC HALL BELFRY, 1933	Pricked direct in comp. office.
425 ✓	NEW CASTLE EMMANUEL PROT. EPIS. CHURCH SPIRE, 1933	Pricked direct in comp. office.
426	NEW CASTLE, 1933	Sub. Pt.

COMPILATION REPORT

SHORELINE MANUSCRIPT, SURVEY NO. T-8773

Survey No. T-8773 is one of twelve shoreline manuscripts in Project No. Ph-7(46)C located along the Delaware River. These surveys are to be compiled in accordance with instructions dated 25 March 1946, and 19 July 1946 by graphic photogrammetric methods.

26. CONTROL:

See individual radial plot report for this survey for layout of control in this area. A list of stations on Form No. M-2388-12 is included in this report.

27. RADIAL PLOT

See individual radial plot report for T-8773, submitted to Washington 12 September 1947.

28. DELINEATION:

The compilation is in accordance with the written instructions pertaining to Project No. Ph-7(46) dated 19 July 1936. For delineation of interior detail, see topographic surveys Nos. T-8751 and T-8752.

Due to lack of photographic coverage that portion of the Salem Canal in the southeast corner of the manuscript could not fully delineated.

The delineation of the Christina R. was extended beyond the northern limits of the manuscript, in order to make a complete junction with T-8772.

The northwestern end of a pier at Pennsville falls within the limits of T-8973 but has been delineated on T-8774.

29. SUPPLEMENTAL DATA:

Map of New Castle Co. Delaware.

30. MEAN HIGH WATER LINE:

No comment

31. MEAN LOW WATER LINE:

The mean low water line was delineated in accordance with the field inspection along the east shore of the Delaware River. Since the field party did not inspect any low water line along the west shore of the river it was delineated by office interpretation of the photographs.

32. DETAILS OFFSHORE FROM THE MEAN HIGH WATER LINE:

No comment.

33. WHARVES AND SHORELINE STRUCTURES:

No comment.

34. LANDMARKS AND AIDS TO NAVIGATION:

See Form No. 567 submitted with the report for Survey No. $\left\{ \begin{array}{l} \text{T-8751.} \\ \text{T-8752} \end{array} \right.$

35. HYDROGRAPHIC CONTROL:

None.

36. LANDING FIELDS AND AERONAUTICAL AIDS

Refer to Field Report for T-8751. *Attached to descriptive report for T-8751.*

38. GEOGRAPHIC NAMES:

Geographic names were taken from final names standards, dated 12/10/46 and 12/18/46 furnished by the Washington Office. A list of geographic names is attached to this report.

39. JUNCTIONS:

Junctions with Surveys Nos. T-8772 and T-8774 to the north and south respectively have been made and are in agreement.

There are no contemporary surveys to the east or west.

40. BOUNDARIES:

None shown.

41. BRIDGES:

Refer to the descriptive reports for Surveys Nos. T-8751 and T-8752.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Comparison has been made between Survey No. T-8773 and the following quadrangles:

1. United States Geological Survey, Wilmington quadrangle, scale 1:62,500, edition of 1906.
2. United States Geological Survey, Salem quadrangle, scale 1:62,500.
3. United States Geological Survey, Wilmington and vicinity quadrangle, scale 1:31,680, edition of 1942.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES (Continued)

Survey No. T-8773 is in good agreement with existing quadrangles except for minor cultural features.

45. COMPARISON WITH NAUTICAL CHARTS:

T-8773 has been compared with chart No. 294, scale 1:40,000, published September 1943 (10th edition) (First edition 1895) corrected to 13 July 1946. The following topographic information shown on T-8773 is of sufficient importance to warrant immediate application to the chart:

None.

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 should be completed by the hydrographic party.

Minor changes in cultural and shoreline details shown on this manuscript need no special discussion.

Respectfully submitted:
25 August 1947

Donald M. Brant
Photogrammetric Aid
Compilation and Compilation
Report

Joseph W. Donack
Photogrammetric Engineer
Office Reviewer

Harry R. Rudolph
Supervisor

Approved and forwarded

Thos O. Bland
Officer in Charge
Baltimore Photogrammetric Office

GEOGRAPHIC NAMES

- .. Carney Point ✓
- .. Cedar Point ✓
- .. Central Park ✓
- .. Christina River ✓
- .. Church Landing ✓
- .. Deepwater ✓
- .. Deepwater Point ✓
- .. Delaware River ✓
- .. Helms Cove ✓
- .. Henby Creek ✓
- .. Magazine Ditch ✓
- .. Basin Road Del. No. 41 ✓
- .. Buttonwood Road ✓
- .. Brandriff Beach ✓

~~Magazine Ditch~~

~~Cotony Hills~~

Churchtown (shift name)

- .. New Castle ~~cut off~~ ✓
- .. New Castle ✓
- .. Newport ✓
- .. Nonesuch Creek ✓
- .. Pennsylvania Reading Seashore Lines ✓
- .. Philadelphia Baltimore and Washington Maryland Division ✓
- .. Pigeon Point ✓
- .. Riverview Beach ✓
- .. Salem Canal ✓
- .. Travis Cove ✓
- .. Pennsylvania - Reading Seashore Lines ✓
- .. Pennsylvania R.R. ✓
- .. Whooping John Creek ✓
- .. Newport Marsh ✓

Names preceded by .
are approved. 10-24-49
L. Heck

Review Report T-8773
Shoreline Map
December 5, 1949

62. Comparison with Registered Topographic Surveys:

T-1505 a	1:5,000	1882
T-1507 b	1:5,000	1881
T-1509 a, b	1:5,000	1881
T-1511 a	1:5,000	1881

The above surveys have been superseded by this shoreline map for nautical charting purposes.

63. Comparison with Maps of Other Agencies:

See item 44 of the Compilation Report included in this Descriptive Report.

64. Comparison with Contemporary Hydrographic Surveys:

None

65. Comparison with Nautical Charts:

Chart 294 1:40,000 Revised to April 1949

Definite, although not important, shoreline differences were noted along the western bank of the Delaware River.

66. Adequacy of Manuscript.-This compilation complies with the National Standards of Map Accuracy.

67. Navigation Ranges.-Sextant readings are given in Descriptive Report T-8751 for two points on DEEPWATER RANGE. The second pair of readings have been rejected, as indicated therein, as not falling on range.

One of the objects sighted in the above sextant readings and listed as "Light on Point, N.W. of Fort Mott Mon." is assumed to be FINNS POINT JETTY LIGHT as that is the only light N.W. of Fort Mott Mon.

For the CHERRY ISLAND RANGE azimuth see T-8772.

68. Contemporary Topographic Surveys:

T-8751	1:20,000	(Compiled 1948)
T-8752	1:20,000	(Compiled 1948)

All of the area of this shoreline manuscript is included in the above listed topographic quadrangles (not reviewed or registered as of the date of this shoreline review) to be published by the Geological Survey at 1:24,000.

Reviewed by:

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