# 8762

Diag'd. on Diag. Ch. 1218

Form 50

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

### DESCRIPTIVE REPORT

	4
Type of Survey Photogrammetric Topograp	1
Field NoOffice No8762	
LOCALITY	
State Delaware	
General locality Delaware River	
Locality Frederica	
Project PH-7(46)A	
<u> 194 6</u>	
CHIEF OF PARTY	
Thos.B.Reed	
LIBRARY & ARCHIVES	
	1

DATE June 7, 1948

3-1870-1 (1)

### DATA RECORD

T- 8762

Quadrangle (II): FREDERICA

Project No. (II):

PH-7(46)A

Field Office:

Chief of Party:

New Castle, Delaware.

E. L. Jones

Compilation Office:

Chief of Party:

Baltimore Photogrammetric Office

Thos. B. Reed

Instructions dated (II III):

25 March 1946 (Field)

Report No. T-

Copy filed in Descriptive

19 July 1946 (Office)

Division Photogrammetry

Office Files

Completed survey received in office:

23 January 1948

Reported to Nautical Chart Section:

Reviewed: 26 March 1948 Applied to chart No.

Date:

Redrafting Completed:

Registered: 6 April 1948

Published:

Compilation Scale: 1:20,000

Published Scale: 1:24.000

Scale Factor (III): 1.000

Geographic Datum (III): N.A. 1927

Datum Plane (III): MSL

Reference Station (III): UNION, 1932

Lat.: 39° 00' 44.4" 1369.2m Long.: 75° 30' 38.7" 932.4 m

Adjusted

State Plane Coordinates (VI): Delaware

X = 473,260.70 feet Y = 368,688.56 feet

Military Grid Zone (VI)

### PHOTOGRAPHS (III)

Number	Date	75th merid Time	ian Scale	Stage of Tide
15563 & 15564	3-21-46	1110	1:20,000	5.2 above M.L.W.
15591 & 15592	3-21-46	1230	1:20,000	5.0' above M.L.W.

Actual tide observation at Atlantic City with corrections

Tide from (III): to St. Jones River to Mispillion River.

Mean Range: 5.4 Spring Range: 6.3

J.W. Vonasek

checked by:

Camera: (Kind or source) U.S.Coast and Geodetic Survey nine lens camera focal length 81"

Field Inspection by: E. L. Jones date: May-July 1946

Field Edit by: Donald G. Flippo date: 1 Sept. to 18 Sept. 1947

R.J. Sipe, Chief of Party

Date of Mean High-Water Line Location (III): As of date of photographs supplemented by field inspection during April 1946.

Projection and Grids ruled by (III) T.L.J.	date:	8-26-46
" " checked by: T.L.J K.N.M.	date:	8-26-46 , 3-24-48
Control plotted by: L.A. Senasack	date:	1-6-47
Control checked by: G.O.Fellers	date:	1-7-47
Radial Plot by: F.J.Tarcza	date:	4 <b>-18-47</b>
Detailed by: D.M.Brant	date:	4-30-47 6-12-47
Reviewed in compilation office by: J.W. Vonasek	date:	6-19-47 to 6-23-47
Manuscript Elevations on Fibility Chrotx		6 20 1#

date: 6-20-47

### STATISTICS (III)

Land Area (Sq. Statute Miles): 48

Shoreline (More than 200 meters to opposite shore): 5 statute miles

Shoreline (Less than 200 meters to opposite shore): 24 "

Number of Recoverable Topographic Stations established: 9

hydrographic signal sites
Number of \*\*Temporence-Hydrographic Stations located by radial plot: 5

Leveling (to control contours) - miles: 44 statute 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:

Field Edit Corrections by: Gladys S. Nottenburg

Jan. 1948

STATION	SOURCE OF INFORMATION (INDEX)	ратим	LATITL	IDE OR V-C UDE OR x-(	LATITUDE OR V-COORDINATE	OM GR	D IN FEET. IN METERS	DATUM	N.A. 15 bi FROM GRID O	27 - DATUM STANCE S PROJECTION LINE	DISTA
2						FORWARD	(BACK)		FORWARD		FORWARD (BACK)
大   上ら 	5-1664	N.A.	39°	051 5	58.176"	Reported	day lo	**************************************	1794.0	(56.2)	
	3	1927	75°	2410	02.996"	2) 149/ vir	Sectorno	526	72.0	(1369.8)	
MURDERKILL RIVER	G-1751	2	36.		17.991"	-		\	554.8	(1295.4)	
rkak kange di 1999 rg.192 r. 1946	F8.132	:	75°	2 1772	23.951"				575.9	(8,998)	
UNION, 1932,	G-1249	=	36°	7 100	44.400"		,		1369.2	(481.0)	
	Pg. 15		75°	30.	38.754"				932.4	(511.2)	
SUB. STA.		=	39°	100					1264.3	(585.9)	
UNION PT.'A'			75°	8,					755.9	(687.7)	
SUB. STA. UNION			34°	100					1270.6	(9.675)	
PT. 'B'		=	75.	301					1 1	(602.1)	•
T.T. No.45,1926	Bowers		39°	01, 3	32, 31"	996.3 (853.9)	)	- 11.5	984.8	(865.4)	
,	Quad	N.A.	75°	271 3	37,36"	(9.44.6) (5.44.6)	(9	+ 4.3	903.0	(5,00.3)	
PRIM. TRAV. STA. No.4			38.	591 5	57.5"	1773.1 (77.1)		• 11.5	1761.6	(988.6)	
1917(U.S.G.S.)	Creek Quad.	N.A.	75°	231 2	23.6"	567.9 (875.9)	3	+ 4.3	572.2	(91178)	
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1 FT. = . 3048006 WETER & A. Janon co.	magac	-	<b>_</b>	12/31/16	2		1. Sep. 3.	A. t.	X	E1/0/ 5	M-2368-12
COMPUTED BY: L.A.Senasack	пазаск	40 D.A	DATE	サイハン	,	2000	H. E. E.			1/7/	

### SYMBOLS Project Ph.7 (46) 29 April 1946

MEAN HIGH WATER LINE (fast line)	
OFF SHORE EDGE OF MARSH (apparent shoreline)	
CRASS IN WATER	Gr
IN SHORE LIMITS OF MARSH	
MEAN LOW WATER LIME (definite)	
APPROXIMATE MEAN LOW WATER LINE	
INTERMITTANT DRAINAGE	
PERENNIAL DHAINAGE,	
COWPOURS	20
PLANE TABLE ELEVATIONS FOR CONTOURS	XIT OT XIT
ELY LEVEL ELEVATIONS,	CE 12 59.7
RENCH MARKS, marked and described	O Elev. 36.47ft.
TOPO STATIONS, natural object, described	REX, 1946 (dm)
TOPO STATIONS, marked and described	TANK (ELEV) steet (15'high)
TCPO STATIONS, addition Hydro Control, not named	/ T. Sta. # 6201
TANDMARES OF COLUMN 1 DO SOURCE CONTRACTOR SOURCE STATES	Landmarks: STACK, black, (55' high)
FIXED AIDS TO MAVIGATION, (official light list name)	/ CHERRY PT L+ 11
TRIANGULATION STATIONS	/ SMITH 1925
SURSTITUTE STATIONS,,co	/ (5.54a.) SMITH 1925
BOUNDARIES: Refer to U.S.G.S. Bulletin 788 E for	•

BOUNDARIES: Refer to U.S.G.S. Bulletin 788 E for symbol, ink in purple or violet ink.

# ABBREVIATIONS FOR FIELD INSPECTION PHOTOS Project Ph-7 (46) 10 May 1946

### ROADS

Rd - road

X - abandoned (delete)

RR - railroad track

RR(2) - railroad, 2 tracks

### SHORELINE

MHW - mean highwater

MLW - mean low water

M - marsh

inid - mud

S - sand

Rky - rocky

Rk - rock

Dk - dock

Jet - jetty

Bkhd - bulkhead

### STREAKS PONDS

D - large ditch

DX - small ditch (delete)

Cr. - creek

P - pond

### OBSTRUCTIONS TO NAV

Shl - shoal .

Cov - covers

Wk - wreck

Subm - submerged

Dol - dolphin

Pile - pile

### VEGETATION

Gr - grass

WH - woods, hard wood

WS - woods, soft wood

WM - woods mixed

B - brush

SH - scattered hardwood

SS - scattered softwood

0 - orchard

### BUILDINGS

d - dwelling

b - barn

Bo Ho - boat house

### BUILDINGS (con'td)

Ch - church

C.H. - courthouse

P.O. - post office

Sch - school

R R Sta - railroad station

Hosp - hospital

### LANDMARKS & AIDS TO NAV:

TK tank

TK(ELEV) tank elevated

Stk - stack

Bn - beacca

In light

Re range

F Rg - front range

R Ng - rear range

Chy - chimney

Cup - cupola

S.Pipe - stand pipe

Gab - gable

### BOUNDARIES

Bary - boundary

Cem - cemetery

F - fence

### BRIDGES

Br · bridge

Culv - culvert

C1 - clearance

Hor - horizontal

Ver - vertical (above MHW)

Wo - wood

Conc - concrete

### STATIONS

BM - bench mark

T Sta - topo station

S Sta - substitute station

TBM - tidal bench mark

(d) - described

(dm) - described and marked

# FIELD INSPECTION REPORT T 8762 (39° 00' / 75°2'30" / 7.5') PROJECT PH 7 (46) Sub-Project A E. L. Jones, Chief of Party

### 1. Description of the Area:

This quadrangle is located on the western shore of Delaware Bay, south of Dover, and in Kent County, Delaware.

80% of the terrain is fertik, undulating land. In general, the remaining 20% of the area is salt water or tidal marsh.

Drainage is through numerous streams feeding the St. Jones and Murderkill Rivers. A mosquito drainage ditch project along the marshes augments the above.

There are no prominent topographic features: the highest elevations are forty feet and range to sea level in gentle slopes.

Economically, agriculture is predominant and the towns of Frederica and Magnolia are farm villages. Bowers has seasonal fishing interests, some oystering and summer resort trade.

Practically all roads are excellent and the Dupont Highway passes through the area. There are no railways, but they are readily accessible at Dover which is about 5 miles to the Northwest.

### 2. Completeness of Field Inspection:

Field inspection was accomplished by two parties. The shoreline party accomplished shoreline inspection and the contour party did the interior inspection. It is believed to be adequate.

There are no telephone or power transmission lines of cross country or prominent nature within the quadrangle limits.

Woods were classified in accordance with paragraph 54 of the instructions for this project, dated 25 March, 1946. Filed in Division of Photogrammetry Office Files

Deletions are shown in green ink.

### 3. Interpretation of the Photographs:

40.0

Numerous smooth, oftimes round, dark areas usually denote the heads of drains or depressions.

Marshes bordering streams were often indistinguishable from the adjoining foliage.

Occasionally areas adjoining marshes appear fast land on photos but are intermittently flooded and not tillable. This was noted on inspection.

### 4. Horizontal Control:

Horizontal control was recovered and identified according to paragraphs 13-33, incl., of the project instructions, dated  $\sim$  25 March. 1946.

Work consisted of recovery and identification of control on photographs and was completed in April, 1946, as a training program under the direction of John M. Neal, Photogrammetric Engineer. The trainees were Frederick F. Kaiser, Air-Photo. Observer, and Thomas W. Merriken, Jr., Photo. Aid.

The following is a tabulated list of information on horizontal control recovered and stations identified:

STATION	establish. Agency	RECOVERED	IDENTIF. ON PHOTO 15562	METHOD OF IDENTIF.	QUAD
UNION	U.S.C.& G.S.	yes	15563	Sub. Sta.	West of
MURDERKILL R. RG. LT.	U.S.C.& G.S.	yes	15563	Picked Direct	8762
PRIM.TRAV. STA. #4 J	U.S.G.S.	yes	15600	Picked Direct	8762

### 5. Vertical Control:

nder Organisa Work consisted of B.M. recovery, and the establishing of new 4th order levels.

Frederick F. Kaiser, Air-Photo Observer, started B.M. recovery and the establishing of 4th order control April 30, 1946, and completed same on May 17, 1946.

The 4th order control was established by Wye levels. Spot elevations were used for control by the contour party, and were located at strategic, identifiable points. They are shown on the photographs by a dot in blue ink. The points are numbered consecutively from 1 to 96, incl., and each number is preceded by the prefix letters EW.

About 44 miles of 4th order levels were run by fly leveling methods: the maximum error of closure was 1.0 feet. All lines with an error of closure greater than 0.30 feet were adjusted, prorating the error among the spot elevations established.

The following is the Recovery data for the Bench Marks in this quadrangle:

BENCH MARK DESIGNATION	IDENTIF. ON PHOTO	QUAD	RECOVERED	USED IN 4th ORDER CONTROL
T.T.Sta. #3J	none	8762	no	no
T.T.Sta. #2J	none	8762	no	no
T.T.Sta. #4J √	15591	8762	yes	yes
G-2 1931 ✓	15563	8762	уев	yes Copy of Form 685
H-2 1931 V	15563	8762	yes	yes Copy of Form 695  yes filed in Division of Photogrammetry yes General Files.
F-2 1931	15564	West of ~ 8762	yes	yes General Files.

### 6. Contours and Drainage:

Contouring was started May 20, 1946, and was completed July 23, 1946, by Frederick F. Kaiser, Air-Photo Observer. The contour interval is 10 feet. Work, done directly on 9-lens photos. nos. 15563, 15564, and 15565 was held as near the center of the photographs as practical in order to minimize distortion. Planetable methods were used.

Drainage and form lines were sketched on photographs from time to time during stereoscopic examinations of the photos. Drainage was checked in the field as planetable contouring progressed.

Elevations were shown along the south and west limits of the quadrangle, also the project limits, at a maximum interval of 600 ft. as per instructions.

Critical elevations are shown, together with elevations of other points deemed advisable by the topographer for better topographic expression.

### 7. Mean High Water Line:

Delaware Bay is affected by the tide all along the shoreline of this quadrangle. Shoreline inspection was completed in the last part of April, 1946, by Frederick F. Kaiser, Air-Photo Observer.

The mean high water line as seen from offshore is indicated by a dashed red line at intervals where the line is indistinct on the photographs. At frequent intervals the MHWL was verified by actual measurements from points of detail.

In some areas the HWL in indefinite, or too far removed from the grass line to be of value to the charts. Where this condition exists the apparent shoreline follows along the outside edge of vegetation. This vegetation is usually supported by a low mud bank, which is, in most cases, about 4 feet high. Generally the LWL follows this same line, but in some cases the tide and wave action has caused this mud bank to single off and flatten out, and in some cases the LWL is outside the grass line.

### 8. Mean Low Water Line:

No special attempt was made to locate the mean low water line. If, during shoreline inspection, an area was visited at low water, the low water line and areas awash were indicated on the photographs.

### 9. Wharves and Shoreline Structures:

The wharves and shoreline structures in the quadrangle were delineated and noted on the photographs in red ink.

### 10. Detail Offshore from Mean High Water Line:

No obstructions were noted offshore. The shoreline inspection was done on foot or from a small boat close inshore. It was impractical to range more than one-half mile outside.

### 11. Landmarks and Aids to Navigation:

There were no charted landmarks along the shore of this quadrangle. A newly constructed steel tower at South Bowers should be added and is described on Form 567 attached hereto.

Three non-floating aids to navigation were identified on the photographs and are listed on the accompanying Form 567. One other aid was missing, having been destroyed in a June, 1943 storm, according to local information.\* All aids present were checked against the 1945 Light List and found to be in agreement.

Sec Item 34 of this report

To determine the Azimuth of the Murderkill River Ranges, a point was established on the range. This is approximately 1.1 miles southwesterly of the rear range and determined with the same accuracy as a horizontal control station. This information is found on Photo 15591.

### 12. H ydrographic Control:

. ..... Hydrographic control was established and identified by the shoreline party. In addition to existing horizontal control, 6 recoverable topographic stations and 5 additional hydrographic control stations were identified.

The following recoverable topographic stations were identified. Form 524 is submitted for each at these stations, but form M-2226-12 is/not submitted in all cases.

Filedin Division of Photogrammetry General Files.

\* See attached copy of letter to Director.

STATION	IDENTIFIED ON PHOTO	METHOD OF IDENTIFICATION
ВАНВ	15591	Picked Direct
ABEL	15591	ti n
TAPE	15591	ti ti
Kent	<b>1</b> 5591	t1 ts
MURD	1 <b>6</b> 500	ti ti
EBBA	15591	n 11
DAYM	15600	is at

### 13. Landing Fields and Aeronautical Aids:

Dover Army Air Base is partially located in this quadrangle: the major portion containing installations is located in Quadrangle T 8761 as the east-west boundary line is in the lower third of the field.

The contouring and field inspection of the entire base was done by Elmer L. Williams, Engineering Aid, and further information is contained in paragraph 13 of the Descriptive Report of Quadrangle T 8761.

### 14. Roads:

Roads were classified in accordance with paragraph 49 of the instructions for this project with State and Federal Route numbers shown.

### 15. Bridges:

There are two bridges, both over the St. Jones River, in this quadrangle.

At Barkers Landing is a bascule bridge having a horizontal distance between fenders of 50 ft. and a 5 foot vertical classed clearance when closed. This bridge is tended from 6a.m. to 7p.m., but few craft require a lift. This information checks with the 1941 Revised Edition of the List of Bridges over Navigable Waters of the United States.

At Lebanon is an iron swing bridge which has been stuck shut since Oct., 1945, according to local sources.

The following differences were noted:

	HOR. CLEARANCE	VERTICAL CLEARANCE OVER MEW	DESCRIP.
FIELD INSPECTION	36 feet	3 feet	swing
1941 List of Bridges	30 feet	6 feet	draw

The horizontal clearances were measured with a steel tape to the nearest 0.1 of a foot and the vertical clearance was measured from the MHWL estimated to the nearest 0.1 of a foot with a steel tape.

### 16. Buildings:

All obscure buildings were delineated on the photographs in red ink. Public buildings were identified and named.

### 17. Boundaries:

Boundaries were verified, checked in the field, and delineated in purple ink.

### 18. Geographic Names:

Geographic names for this quadrangle were obtained by the topographer and will be covered in a special report on Geographic Names, Project PH 7 (46)A, by Lowell I. Bass, Engr. Aid. Approved is attached to this report.

### 19. Coast Pilot Information:

Coast Pilot Information for this quadrangle will be covered in a special report, Project PH 7 (46)A, by George E. Varnadoe, Photogrammetric Engineer.

### 20. Inshore Limits of Marsh:

Junctions were made with Quadrangle 8763 on the west and Quadrangle 8761 on the north.

### 48. Accuracy Tests: (Vertical)

One unofficial vertical accuracy test was completed on July 24, 1946, by Harland R. Cravat, Photogrammetrist. The test was not made to take the place of any accuracy checks to be made at the time of Field Edit but to determine the quality of the field party's work.

A planetable level profile test was completed in the N.W. corner of 9-lens photograph # 15564, starting at spot elevation BW 88 and ending at spot elevation BW 89. The horizontal error of closure was 25 feet ground scale and the vertical error of closure was 0.4 feet. All results of the test have been shown directly on the contour photograph in black ink.

### - RESULTS -

- 21 points tested
- 19 points in error less than 5 feet
- 2 points in error from 5 to 10 feet
- O points in error over a full contour interval
- 90.5% of points tested were found to be in error less than a contour interval

Submitted By,

Frederick F. Kaiser.
Air Photo Observer

Approved and Forwarded: August 2, 1946

Edmund L. Jones, Chief of Party

Signatur Signatur

### COMPILATION REPORT

### MAP MANUSCRIPT SURVEY NO.T-8762

T-8762 (Frederica Quadrangle) is one of four topographic maps in Project No. Ph-7(46)A located along the Delaware River and Bay. This survey is to be compiled in accordance with instructions dated 25 March 1946 and 19 July 1946 by graphic photogrammetric methods. The contouring will be compiled from data obtained by planetable methods. Instructions filed in Division of Photogrammetry Office Files

### 26. CONTROL:

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

### 27. RADIAL PLOT:

See report for combined radial plot covering the areas of T-8761 to T-8764 inclusive, submitted to the Washington Office 12 May 1947.

### 28. DELINEATION:

The compilation is in accordance with written instructions pertaining to Project PH-7(46) dated 19 July 1946.

The contours were traced directly from field photographs.

### 29. SUPPLEMENTAL DATA:

Town map of Frederica, Del. dated 3-5-42, scale 1"= 400. Town map of Magnolia, Delaware, dated 3/24/41, scale 1"=200'. Filed in Division of Photogrammetry General Files

### 30. MEAN HIGH-WATER LINE:

The mean high water line was delineated in accordance with field data.

### 31. MEAN LOW-WATER LINE:

Only that part of the mean low water line identified by the field inspection party was shown on the map manuscript.

### 32. <u>DETAILS OFFSHORE FROM THE HIGH-WATER LINE:</u>

No comment.

### 33. WHARVES AND SHORELINE STRUCTURES:

No comment.

- 42.4

### 34. LANDMARKS AND AIDS TO NAVIGATION:

Refer to form No. 567, submitted with this report and to the field report for data pertaining to one landmark and three nonfloating aids to navigation, to be charted. Filed in Division of Charts

Refer to form No. 567 attached to the field report for data pertaining to one non-floating aid to navigation to be deleted, Nodeletions, See photostat copy of Form 567 attached to this report. There

are 4 non floating aids.

### 35. HYDROGRAPHIC CONTROL:

Five hydrographic signal sites, identified by the field party, have been plotted on this map accompanied by their description.

### 36. LANDING FIELDS AND AERONAUTICAL AIDS:

Refer to paragraph No. 13 of the field report.

### 37. GEOGRAPHIC NAMES: T.M

Geographic names have been taken from final name standards dated. 12/9/46 furnished by the Washington Office. A list of the geographic names is attached to this report. Approved by L. Heck-Geographic Mannes Sect. Div. of Charts.

verified by legal descriptions

### 38. JUNCTIONS:

A satisfactory junction has been made with Surveys Nos. T-8761 to the north and T-8763 to the east. To the south and west is the project limits.

### 39. DISCREPANCY OVERIAY:

A discrepancy overlay has been prepared.

### 40. BOUNDARIES:

The district boundaries were delineated as shown on the U.S.G.S. Bowers Quadrangle. The boundaries of Frederica and Magnolia have been of town bdry's taken from town maps listed under side heading No. 29. The identifica- and district body tion of the boundary lines of the town of Bowers and legal description filed in Div. of thereof were not furnished the compilation office. The boundary lines of Bowers were, therefore, not shown on the map manuscript.

· Legal descripting Photogr. General files.

The field inspection party identified the boundary lines of Dover Army Air Base on the field photographs and were delineated on the map accordingly.

Discrepancies between boundary lines plotted from descriptions and those shown on the U.S.G.S. Bowers Quadrangle were noted on the discrepancy overlay.

### 41. BRIDGES:

100

All bridge information for the area covered by this report as listed

### 41. BRIDGES: (Continued)

in the U.S. Engineers "List of Bridges Over Navigable Waters in the U.S." dated July 1, 1941 was verified in the field; all clearances were carefully measured with a steel tape, and the published descriptions and clearances were found to be correct except for the following discrepancies which were not reported to the local District Engineer:

(Letter to the local Dist. Engir being prepared by the Review Section) # 5/4/48

BRIDGE AT:	FIELD MEASUREMENTS	LISTED MEASUREMENTS
FREDERICA, DEL.	Hor. Cl. 75'	24'
over Murderkill River	Vert. Cl. 3'	3.7'
FREDERICA, DEL. over Murderkill River	Hor. Cl. Fixed concrete Vert. Cl. bridge. Skiff clearance only.	26¹ 3.9¹
FREDERICA, DEL.	Hor. Cl. 30'	26'
over Spring Creek	Vert. Cl. 3'	2.2'

See paragraph No. 15 of the field report for field data on two additional bridges.

### 44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

T-8762 has been compared in detail with the U. S. Geological Survey Bowers Quadrangle, scale 1:62,500 and found to be in good agreement except the contours, which are, in general, somewhat in disagreement.

### 45. COMPARISON WITH NAUTICAL CHARTS:

T-8762 has been compared to Nautical Chart No. 1218, scale 1:80,000 and found to be in fair agreement. The following topographic information shown on T-8762 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 in part and will be completed by the hydrographic party.

Respectfully submitted: 13 June 1947

Photogrammetric Aid
Compilation and Descriptive Report

Photogrammetric Engineer Photogrammetric Office Review

Approved and Forwarded 2 July 1947

Officer in Charge Baltimore Photogrammetric

Office

1		
	267	1945
	Form	April

DEPARTMENT OF COMMERCE

EODETIC SURVEY U. S. COAST AN

# NONFLOATING AIDS OR LANDMARKS FOR CHARTS

STRIKE OUT ONE TO BE CHARTED TO XBE CHARTED

Baltimore, Maryland

January 20

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

H. R. Rudblph charted on (abdenced chost) the charts indicated.

The positions given have been checked after listing by

Chief of Party. 1218 1218 1218 1218 отганове силв X INSHORE CHART × TRAHD ROBRAH LOCATION 1946 1933 1947 2761 Rad. Ploc T-8762 | METHOD OF LOCATION AND SURVEY NO. T-8762 Tr. DATUM A A 1927 Ξ 575.9 D. P. METERS 1,385 777 351 LONGITUDE 3 **5**7 77 77 POSITION 1947 75 75 75 July D, M, METERS 554.8 1779 817 1797 ď LATITUDE ashington 39 03 6 6 6 3 \$ \$ charting Supersedes Form No. 567 forwarded to Same as Murderkill Kiver Range Front | Nurderkill River Hange Rear St. Jones River Range Front St. Jones River Range Rear DESCRIPTION STATE DICLAWARE CHARTING NAME

# Field Edit Report of Map Manuscript T-8762 Project Ph-7(46) R. J. Sipe, Chief of Party

The field edit of this quadrangle was accomplished during the period 1 September to 18 September 1947 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.

- ll. Landmarks and Aids to Navigation: Two Range lights have been established in the Quadrangle since the field inspection. They are St. Jones Front and Rear Ranges, and were rebuilt in October 1946. St. Jones Front Range 1946 was identified on the manuscript but was rebuilt after the identification. These two Ranges have been identified by the field editor, and also a Pt. on Range has been identified.
- 46. Methods: All delineated features such as roads, structures, drainages, and contours were checked either visually by traveling on 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: Some compiled roads and trails were deleted during the field edit. These were, however, valuable to the field editor in many instances. Several: small outbuildings had been compiled but these have been deleted. Also some structures were added.

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: Two accuracy tests were made in this quadrangle.

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

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

Mr. W.M. Stevenson Frederica, Delaware

Respectfully submitted

Donald G. Flippo Photogrammetric Aid 18 September, 1947

### Division of Photogrammetry Review Report of Topographic Map Manuscript T-8762

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

### 40. Boundaries .--

A notation on the field edit discrepancy sheet states that the identification and legal description of the Bowers' boundary line has been provided. These data were not available at the time of review. The boundary line of Bowers has not been shown on the map manuscript.

43.	Comparison	with Previous	Surveys	The legal description is available and the bely
	T-150 T-1548a	1:20,000 1:20,000	1842 1883	line has been skown on the majo manuscript
	T-4667	1:20,000 1:10.000	1910 1931-32	malai 4-2-48

Numerous changes in shoreline and cultural features have occurred since the above surveys were made. These surveys are superseded by the map manuscript in all common areas.

- Vineland, Del.-N.J., USGS, 1:125,000, 1886-96 Bowers, Del.-N.J., USGS, 1:62,500, 1926, 1933-34
- 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.

### 48. Vertical Accuracy Test .--

Two vertical accuracy tests run for this quadrangle meet the project specifications. This map complies with the national standard map accuracy requirements.

Reviewed by:

K. N. Makt

3-25-48

APPROVED BY:

Chief, Review Section # Div. of Photogrammetry

Chief, Nautical Chart Division of Charts

Chief, Div. of Photogrammetry Chief, Div. of Coastal Surveys

### GEOGRAPHIC NAMES

· ASH GUT

· BARKERS LANDING V

BARRATTS CHAPEL

• BAY. ROAD

· BROCKONBRIDGE GUT

. BOWERS

• CYPRESS BRANCH 🔧

CYPRESS POND

• DOUBLE RUN 🔟

FREDERICA

. JOHN WESLEY CHURCH

. KITTS HUMMOCK

. KIUNK DITCH

LEBANON

MACNOLIA

• MILFORD NECK

• MURDERKILL RIVER V

· Lewis Ditch

. Dover Army Air Base

MURDERKILL NECK

OLIVE SCHOOL

SAND DITCH >

SOUTH BOWERS

SPRING CREEK

ST. JONES RIVER

· ST. JONES NECK

, UNION CHURCH V

WEBB LANDING (abandoned) · Delaware Bay

, Dupont Highway, U.S. 113 /

U.S. No. 115A

. State Nos. 9,12

preceded by . are approved

Photogrammet

Checked by: Photogrammetric Engineer

### Y

# DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

POST-OFFICE ADDRESS:

P. O. Box 110

New Castle, Delaware

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

7 June, 1946

To:

Director

U. S. Coast & Geodetic Survey

Washington 25, D. C.

Subject: Report of Aid to Navigation Destroyed.

Benjamin W. Hoxie, Photogrammetrist in charge of the Sub Office on Project Ph-7 (46) at Dover, Delaware reports that the St. Jones River Range Rear listed on page 234, No. 1630, of the Light List, Atlantic and Gulf Coast's (1945) and on chart No. 1218 (lat. 39° 04', long. 75° 24') has been destroyed.

According to local sources this rear range was washed out during a storm in June 1943.

Edmund L. Jones, Chief of Party.

## DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

12 June, 1946

EXPRESS ADDRESS:

To:

Lieut. Comdr. Edmund L. Jones, U. S. Coast and Geodetic Survey Post Office Box 110 New Castle, Delaware

Subject: Report of Aid to Navigation Destroyed

Receipt is acknowledged, with thanks, of your letter of 7 June, calling our attention to the destruction of St. Jones River Range Rear Light shown on Chart No. 1218.

Information received from the Coast Guard is that this light will be replaced at an early date. It will, therefore, be marked on the charts as being temporarily extinguished.

Acting Director.

### NOTES FOR HYDROGRAPHIC PARTIES DELAWARE RIVER

### MAP MANUSCRIPT, SURVEY NO. T-8762

### PROJECT PH-7(46)A

The  $2\frac{1}{2}$  millimeter circles, accompanied with a name and date, are the positions of the recoverable photo (topographic) stations. The dot accompanied with a number and description are the positions of the hydrographic signals.

The outline of the shoal areas are approximate and are for your advance information.

T-8762 has been compared to Nautical Chart No. 1218, scale 1:80,000, and found to be in fair agreement.

The following topographic information shown on T-8758 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 in part and will be completed by the hydrographic party.

Respectfully submitted 13 June 1947

Photogrammetric Aid

Approved and Forwarded:

3 July 1947

Officer in Charge

Baltimore Photogrammetric Office