11141

Diag. Cht. Nos. 229, 1205, &1205 Insert.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-114 Office No. T-11141

LOCALITY

State Maine - New Hampshire

General locality Portsmouth

Locality Piscataqua - Bellamy Rivers

194 51-54

CHIEF OF PARTY
E.H.Kirsch, Chief of Field Party
I.R.RUbottom, Tampa hoto. Office

LIBRARY & ARCHIVES

DATE July 21, 1958

B-1870-1 (I)

T-11141

Project No. (II): Ph-114(53) Quadrangle Name (IV):

Field Office (II): Newburyport, Mass.

Chief of Party: E. H. Kirsch

Photogrammetric Office (III):

Tampa, Florida

J. E. Waugh Officer-in-Charge:

Ira R. Rubottom Copy filed in Division of

Photogrammetry (IV)

Instructions dated (II) (III): 20 Feb. 1953

Supplement No.1, 28 Mar. 1953

2, 30 Apr. 1953

3, 6 May 1953 4, 26 May 1953

5, 25 June 1953

Graphic Method of Compilation (III):

Manuscript Scale (III):

1:10,000

Stereoscopic Plotting Instrument Scale (III): Ina pplicable

Scale Factor (III):

None

Date reported to Nautical Chart Branch (IV):

Date received in Washington Office (IV): 3

Applied to Chart No.

Date:

Date registered (IV): 4/10/58

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

N. A. 1927

Vertical Datum (III): MHW

Menn sealeye except as follows: Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III): FROST 1908

44.392 (1369.9m.) Long.: 70° 47° 24.370 (550.6m.)

Adjusted 2345345563

Plane Coordinates (IV):

State:

Zone:

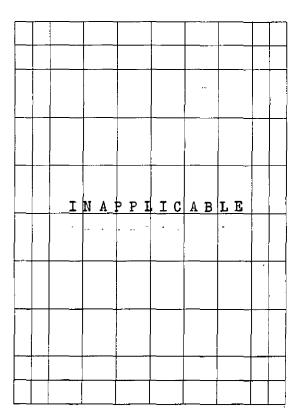
Y =

Roman numerals Indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or ((V) Washington Office.

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

Form T- Page 1

M-2618-12(4)



Areas contoured by various personnel (Show name within area) (II) (III)

DATA RECORD

Field Inspection by (II): None Date:

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location):

Air Photos Compilation 2 July 1952

Projection and Grids ruled by (IV): S. Rose (W. O.) Date: 14 Feb. 1953

Projection and Grids checked by (IV): H. D. Wolfe (W.O.)

Date: 16 Feb. 1953

Control plotted by (III): R. E. Smith Date: 2 Mar. 1953

Control checked by (III): I. I. Saperstein Date: 2 Mar. 1953

Radial Plot da See Constant Date:

Planimetry Date:

Stereoscopic Instrument compilation (III): Inapplicable

Contours Date:

Manuscript delineated by (III): R. Dossett Date: 17 Mer. 1953

Photogrammetric Office Review by (III): J. A. Giles Date: 18 Mar. 1953

17 Mar. 1954

Elevations on Manuscript Date:

checked by (N) (III): None

. Camera (kind or source) (III) = Single-lens

DEPARTMENT OF AGRICULTURE (Mark Hurd Mapping Co.)

Date:

			Fairchild	Cartographic Cam	era J & :	wild camera
)		•		PHOTOGRAPHS (III)		_
	N	umber	Date	Time	Scale	Stage of Tide
D.	2W-91	K - 175	2 July 1952	1050	1:10,000	3.05 /
12	th	176	11	1050	11	n
fi	t)	177	\$1	1050	# >	ú
11	13	178	tt	1050	Ų	ű
U	tt	1 7 9	#	1051	ų.	Ĩf
11	U)	180	ú	1052	Ħ	t i
tt	11	181	11	1053	ú	ú
Ħ	10	182	n n	1055	Ų	ú
U	Ħ	183	0	1055	ŧı	li .
ij1	#1	131	û	1030	ti	11
()	ñ	132	tt	1030	ti	II
5	11-	<i>5</i> 980	2 NOV. 1951		1.5	
5	4 w-	1363	29 JAG 1954		11	- 01.2
		1364	Apr.	Tide (III)	» I	
			FROM PREDICTED TIDES			Ratio of Mean Spring Ranges Range Range
	R	eference Station:	PORTLAND			0.7 6.5 7.5
	S	ubordinate Station:		Salmon falls river	ENT,	
	S	ubordinate Station:	(Mear	1)		
	Washington Office Review by (IV):					Date:
	Fi	inal Drafting by (1V)	:			Date:
	D	rafting verified for re	eproduction by (IV):			Date:

Land Area (Sq. Statute Miles) (III): 6

Shoreline (More than 200 meters to opposite shore) (III): 26

Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling · Miles (II):

Proof Edit by (IV):

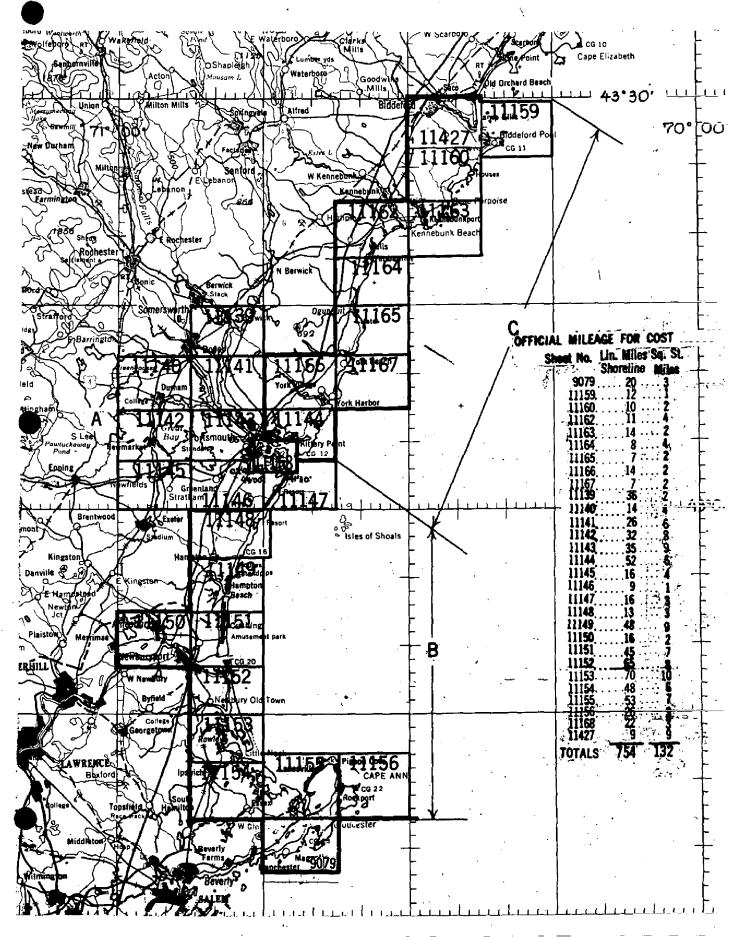
Number of Triangulation Stations searched for (II): #4 Recovered: #4 Identified: #4

Number of Recoverable Photo Stations established (III): ** O Number of Temporary Photo Hydro Stations established (III): #15 6 7

Remarks: Twenty four (24) of the temporary photo-hydro stations

were established by the Photogrammetric field Party.

SHORELINE MAPPING PROJECT PH-114 BIDDEFORD POOL, MAINE TO CAPE ANN, MASS.



Summary to Accompany T-11141

Field instructions were issued for Ph-114 on 13 March 1953 to provide shoreline and control for inshore hydrographic surveys and to provide standard shoreline manuscripts for chart compilation. The hydrographic phase of this surveying was accomplished in the summer of 1953 under instructions for project CS-355 (Plum Island Sound to Portsmouth Harbor), and CS-361 (Cape Porpoise Harbor).

a pulininary compilation was prepared prior to Hydrographic Surveys. Later the final Compilation was prepared fect.

ADVANCE COMPILATION REPORT T-11111

PHOTOGRAMMETRIC PLOT REPORT.

*This report will be submitted at a later date.

**X Filed as a part of Report T11146
31. DELINEATION.

The graphic method was used.

The photographs were of reasonably good scale. Part of the detail shown north of Latitude 43° ll' was uncontrolled. It was shown for the benefit of the hydrographer only. All detail points established by the intersection of two radial lines only have been indicated with ticks.

32. CONTROL.

Sufficient pass points were adequately located by the radial plot to accurately control each photograph.

33. THROUGH 34.

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS.

The high-water line was located by stereoscopic study of the photographs and delineated accordingly.

The limits of alongshore areas, outside of the M.H.W.L., which may be shallow, shoal, grass-in-water, marsh, grass-and-mud or mud have been delineated approximately by a black dashed line. In some areas, short stretches of what appeared to be the channel limits have also been indicated approximately by a dashed line. Unless such limits were sharp and clearly discernible on the photographs they were not shown. It is requested that these areas be investigated and properly classified.

All piers apparent on the photographs have been delineated.

36. OFFSHORE DETAILS.

None noted.

37. LANDMARKS AND AIDS.

To be located by the hydrographer.

38. CONTROL FOR FUTURE SURVEYS.

Recoverable topographic stations, Forms 524, located on T-8527 () were examined; however, none appeared to be usable as photo-hydro stations and since the field photographs on which these stations were identified were not available no attempt was made to locate them on this survey.

Forty-three (43) temporary photo-hydro stations are shown. These have been listed under Item 49.

39. JUNCTIONS.

No junction could be made with T-11139 on the north due to a lack of photographic coverage. Satisfactory junction was made with T-11143 on the south. Although this survey joins T-8528 () on the east and T-11140 on the west, no detail extends to either neat line.

LO. HORIZONTAL AND VERTICAL ACCURACY.

Reference Item 31 and Photogrammetric Plot Report relative to horizontal accuracy.

41. OVERHEAD CABLE.

There is a cable crossing at Latitude 43° 10° 15" Longitude 70° 49° 05". This is shown on Nautical Chart No. 229 as "OVHD. CAB." but no clearance is given. The transmission towers are temporary photo-hydro stations Nos. 003 and 004 respectively.

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with USC&GS Quadrangle T-8527 (). Dover East No outstanding shoreline differences were noted.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with USC&GS Nautical Chart No. 229, scale 1:30,000, published November 1914 and corrected to 26 January 1953.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Rudolph Dossett Cartographic Photogrammetric Aid

APPROVED AND FORWARDED:

J. E. Waugh, Chief of Party

48. GEOGRAPHIC NAME LIST.

Only base map names have been shown. They were taken from USC&GS Nautical Chart No. 229.

49. NOTES FOR THE HYDROGRAPHER.

NUMBER

A number of temporary photo-hydro stations were selected in the Tampa Office for use by the hydrographer. The stations selected and pricked on the photographs consist principally of lone trees, bushes, gables of houses, tanks, chimneys, transmission towers, piers and the like. An effort was made to select stations about one-quarter of a mile apart; however, it was impossible in certain areas to prick any object whatsoever which could be positively recovered in the field. In small coves and inlets, wherever possible, photo-hydro stations were pricked at closer intervals in order that a fix might be obtained readily.

The number and description of each temporary photo-hydro station follows:

DESCRIPTION

NOPERT	DEPORTATION		
001 HIT	Large tree, the most southerly on point.		
002 - MAX	Lone tree, on SE side of small cove.		
003 - GIN-	Center of transmission tower, on west shore of river, about 45 m. inshore, in cleared area.		
004-NAY	Center of transmission tower on east shore of river.		
005 - PAL -	West gable of house at offshore end of pier.		
006—	Low tree at waters edge, on west shore.		
007	NW corner of pier on east side of river.		
008	Large bush in cleared area, about 25m. inshore.		
009 - VAL	Lone bush near point of land at south entrance of stream.		
010	Lone bush in cleared area, near small point of land about 15 m. inshore.		
011-	West gable of large building, about 70 m. south of shoreline.		

49. NOTES FOR THE HYDROGRAPHER (CONTINUED)

NUMBER	DESCRIPTION		
012-PIG	East gable of house, on west shore of river.		
013-KAD	Center of west end of house on east shore of river.		
014	NE corner of pier, the most northerly and longer of 2 piers.		
015-JAY	Large lone tree about 70 m. SW of point.		
016 —	SW corner of pier.		
017 - PUG	East gable of large house about 30 m. inshore. (H-8094: Egable red roof barn)		
018-NUL V	Small tree, the most southerly of 2 trees near point.		
019	Largest bush of 4 in row, on causeway in west center of cove.		
102 —	The largest and most westerly tree in row of 3 trees.		
055 NIL	SW corner of pier (4-8094 wh. flag on rock)		
056 FIX	Center of west end of pier.		
-118-	The most westerly of 3 large trees on		
024 YAP	SW corner of pier.		
025 IKE	SW corner of pier.		
026 HIM	SW corner of pier		
027	Center of southern tip of fender, south side of bridge.		
028 WAG	Center of northern tip of fender, north side of bridge.		

49. NOTES FOR THE HYDROGRAPHER (CONTINUED)

NUMBER	DESCRIPTION		
029 RIP :	West gable of, house about 20 m. inshore. (7)		
030 TOY	Center of west end of pier.		
031 RAY	Center of west end of pier.		
032	Large tree at waters edge.		
033 JAM	Tall tree on knoll.		
034 STA	Center of cross arm, transmission tower.		
035 Gus	Northeastern most of two bushes about 10 m. apart, near beach.		
036 HOG	Northernmost of two trees on rounded point of land.		
037 ZAG	North gable of house, about 10 m. inshore.		
038 -	Sw corner of pier.		
039 NIC	SW corner of pier.		
040	Center of southern end of pier.		
叶	Lone tree, on round point of land, near shore.		
042	West gable of large building, about 200 m. north of shoreline.		
043	Lone tree, on waters edge, on north side of island.		
149 —	Center of offshore end of pier.		

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11141

1. Projection and grids J.G. 2. Title J.G. 3. Manuscript numbers J.G. 4. Manuscript size J.G.
CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy M.M.S. 6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations) <u>XX</u> 7. Photo hydro stations <u>J.G.</u> 8. Bench marks <u>XX</u>
9. Plotting of sextant fixes XX 10. Photogrammetric plot report J.G. 11. Detail points J.G.
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline J.G. 13. Low-water line XX 14. Rocks, shoals, etc. J.G. 15. Bridges J.G. 16. Aids
to navigation XX 17. Landmarks XX 18. Other alongshore physical features J.G. 19. Other along –
shore cultural features
PHYSICAL FEATURES
20. Water features $\frac{J_*G_*}{21}$ 21. Natural ground cover $\frac{XX}{22}$ 22. Planetable contours $\frac{XX}{23}$ 23. Stereoscopic
Instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical
features_J.G.
CULTURAL FEATURES
27. Roads XX 28. Buildings XX 29. Railroads XX 30. Other cultural features
BOUNDARIES
31. Boundary lines XX 32. Public land lines XX
MISCELLANEOUS
33. Geographic names $J_{\bullet}G_{\bullet}$ 34. Junctions $J_{\bullet}G_{\bullet}$ 35. Legibility of the manuscript $J_{\bullet}G_{\bullet}$ 36. Discrepancy
overlay XX 37. Descriptive Report J.G. 38. Field inspection photographs XX 39. Forms J.G.
40. Reviewer Supervisor, Review Section or Unit
V Reviewed Supervisor, Review Section of Giff
41. Remarks (see attached sheet)
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.
Compiler Supervisor

COMPILATION REPORT T-11141

PHOTOGRAMMETRIC PLOT REPORT

This report submitted separately.

**Eiled as a part of Report 711148
31. DELINEATION.

Reference Item 31 of advance report.

There was no field inspection.

Since the preliminary report was written, the radial plot has been extended to cover the area mentioned in the second paragraph of Item 31 of the advance report.

Subsequent changes made since receiving additional photographic coverage are shown in red (including temporary photohydro stations). These changes only occur near the northern limits of the manuscript where junction is made with T-lll39.

32. CONTROL.

Reference Item 32 of advance report.

33 THROUGH 34.

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS.

Reference Item 35 of advance report.

The alongshore areas mentioned as "shallow, shoal, etc.," have been changed to marsh. This change was made after recommendations by a member of the hydrographic party and is shown in red.

The low-water line has been taken from the boat sheet and is shown on the map manuscript in black pencil lines. Corresponding lines in most instances were not discernible on the photographs.

36. OFFSHORE DETAILS.

Reference Item 36 of advance report.

37. LANDMARKS AND AIDS.

Reference Item 37 of advance report.

38. CONTROL FOR FUTURE SURVEYS.

Reference Item 38 of advance report.

Twenty four (24) additional temporary photo-hydro stations, established by the field party, are listed under Item 49.

39. JUNCTIONS.

Reference Item 39 of advance report.

Junction has been made with T-11139 on the north and T-11140 on the west. The junction with T-11143 on the south has been completed by the addition of woodland cover symbol (stickup). There is no contemporeanous survey on the east.

40. HORIZONTAL AND VERTICAL ACCURACY.

Reference Item 40 of advance report.

41. OVERHEAD CABLE.

Reference Item 41 of advance report.

Vertical clearance for subject cable is given in N.M. No.42, October 17, 1953 as 65 feet above mean high-water.

46. COMPARISON WITH EXISTING MAPS.

Reference Item 46 of advance report.

47. COMPARISON WITH NAUTICAL CHARTS.

Reference Item 47 of advance report.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Rudolph Dossett

Cartographic Photogrammetric Aid

APPROVED AND FORWARDED:

Ira R. Rubottom, Chief of Party

n i minimu er min 1896

48. GEOGRAPHIC NAME LIST.

BACK RIVER ROAD
BACK ROAD
BELLAMY
BELLAMY RIVER

CEDAR POINT
CLEMENTS POINT
COCHECO RIVER
CUSHINGS

EAST SIDE STATE ROAD

FRESH CREEK
FORT HILL

GOAT ISLAND

HILL ROAD HILTON HUCKLEBERRY HILL

KENNARDECORNER

LITTLE BAY LORD BROOK

MAINE

NEW HAMPSHIRE NEW SAINT MARYS CEMETERY

PISCATAQUA RIVER

QUAMPHEGAN_BROCK

RIVER ROAD ROYALLS COVE

SAIMON FALLS RIVER
SCAMMEL BRIDGE
STA CY CREEKSTATE ROAD 16
STURGEON CREEK
SUNSET HILL

_- !!!!!

TIDY ROAD

UPPER NECK SCHOOL

U.S. 4

VARNEY BROOK

Names approved 1-7-55. L. Heck. 50.

PHOTOGRAMMETRIC OFFICE REVIEW

11141
1. Projection and grids J.G. 2. Title J.G. 3. Manuscript numbers J.G. 4. Manuscript size J.G.
CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy M.M.S. 6. Recoverable horizontal stations of le
than third-order accuracy (topographic stations) XXX 7. Photo hydro stations J.G. 8. Bench marks XXX
9. Plotting of sextant fixes XXX 10. Photogrammetric plot report J.G. 11. Detail points J.G.
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline <u>J.G.</u> 13. Low-water line <u>J.G.</u> 14. Rocks, shoals, etc. <u>J.G.</u> 15. Bridges <u>J.G.</u> 16. Al to navigation <u>XXX</u> 17. Landmarks <u>XXX</u> 18. Other alongshore physical features <u>J.G.</u> 19. Other along
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27. Roads J.G. 28. Buildings J.G. 29. Railroads J.G. 30. Other cultural features J.G.
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BOUNDARIES
31. Boundary lines J.G. 32. Public land lines XXX
en e
MISCELLANEOUS
33. Geographic names <u>J.G.</u> 34. Junctions <u>J.G.</u> 35. Legibility of the manuscript <u>J.G.</u> 36. Discrepan
overlay J.G. 37 Descriptive Report J.G. 38. Field inspection photographs XXX 39. Forms J.G.
40. For Jesse A. Giles William A. Rasure Reviewer Supervisor, Review Section or Unit
41. Remarks (see attached sheet)
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.
Compiler Supervisor
43. Remarks: M.2623-1

49. NOTES FOR THE HYDROGRAPHER.

Reference Item 49 of advance report.

The following temporary photo-hydro stations were established by the photogrammetric field party and their positions checked in the Tampa Office with no changes noted: (Descriptions from H-8094)

```
RED sw gable bo ho
   POP
        poplar tree
   TIP pole on bridge
   SIL w gable silver barn
020 WED tree
       s end buik head
   END
   SIC S. cor. bulk head
   VEX wh. cloth in bush
   BUD wh. sig. ard. bush
 * JOE end tree ( of hedge row along fence)
   EVA E gable bo. ho , west shore
   SAM w. gable of boat house
   USE yel sig on bush
  --- center small bush (w side river)
  --- w. gable barn
                         (E side river)
   BUS red & wh banner in bush
   ROB S gable of red ho.
   OWL str. green roof of shed
  --- east gable red garage ( bto Slurgeon Cr & Salmon Falls R.)
  --- east gable yellow barn (E side Salmon Falls R & S. of Stacy Cr)
   MUG end pier
   ASH Egable barn
   LEG yell cloth and bush
       red & who banner on pine
   PIN
```

* H-8094 JOE: White chimney gray house". There is no house at the end of the hedgerow.

Review Report T-11141 Shoreline Map 6 January 1955

61. General:

Stick-up was applied to the map manuscripts in this project as a part of the compilation process, i.e., prior to review. The map manuscripts at this phase are labeled, "Advance Print".

These map manuscripts were not altered during review. Any additions, alterations, or deletions recommended by the reviewer were recorded on review correction overlays to be used by the Drafting Section for application of the called-for revisions on black line impressions on vinylite. These positives on vinylite, with corrections applied, serve as the final map manuscripts.

62. Comparison with Registered Surveys:

T-2511 & a	1:10,000	1900, 1909
T-2903	1:10,000	1908-9
T-2958	1:10,000	1909

The older surveys are superseded by T-11141 for charting shoreline and planimetry.

63. Comparison with Maps of Other Agencies:

USE Dover East 1:25,000 1950

T-11141 supersedes the quadrangle for planimetry and shoreline for charting the area of T-11141.

64. Comparison with Contemporary Hydrographic Surveys:

H-8094 (ECFP 1753) 1:10,000 1953

A black-and-white print of the boat sheet was available during review. The shoreline on the boat sheet was that of a preliminary compilation and is a fast-land line.

During final compilation much of the shoreline was advanced to include a marsh fringe. This advanced shoreline was delineated after the hydrographic party had worked in the area and found that the fast land did not represent the limit of MHW. No photogrammetric field inspection was made in this map area either for shoreline, interior, bridges, or cables.

At the time of final compilation a line of 1954 photographs were available (54-W 1363, 1364, 1365). They were taken at -0.2 tide, so that the clearly defined channels in Bellamy River and Piscataqua River nearly

represent approximate low-water line. In Piscataqua River this channel or "shallow" boundary does not greatly conflict with the LWL on the boat sheet, but Bellamy River channel seems to have changed considerably between the summer of 1953 and April, 1954. No low water photographs cover the area south of 43° 08' 15"; therefore, the channel line ends at that point on the manuscript.

The hydrography in Bellamy was adjusted during neutration to harmonize with the channel on the Comparison with Nautical Charts: 1954 Pholography R.E.E. 2-13-57

65. Comparison with Nautical Charts:

229 1:30,000 ed. Nov. 1914

corr. May 1948

The shoreline and planimetry on T-11141 supersedes that of the chart in their common areas.

66. Accuracy:

This map area is well controlled and interior delineation meets the National Standards of Accuracy. Shoreline is delineated as accurately as office interpretation permits. (See 64, above.)

Reviewed by:

Lena J. Stevens

Lena T. Stevens

APPROVED:

Div. of Photogrammetry

Chief, Nautical Chart Branch

Div. of Charts

Chief, Div. of Coastal Surveys