

# 9510

# 9510

Diag. Cht. 6152

<p>Form 504</p> <p>U. S. COAST AND GEODETIC SURVEY</p> <p>DEPARTMENT OF COMMERCE</p> <p><b>DESCRIPTIVE REPORT</b></p>	
<p>Type of Survey <u>Shoreline (Photogrammetric)</u></p>	
<p>Field No. <u>Ph-50 (49)</u> Office No. <u>T-9510</u></p>	
<p>LOCALITY</p>	
<p>State <u>Washington-Oregon</u></p>	
<p>General locality <u>Columbia River</u></p>	
<p>Locality <u>Crims Island to Wallace Island</u></p>	
<p><u>1950</u></p>	
<p>CHIEF OF PARTY</p>	
<p><u>W.H. Bainbridge-Chief of Party; Field</u></p>	
<p><u>C.W. Clark-Chief, Portland Photo Office</u></p>	
<p>LIBRARY &amp; ARCHIVES</p>	
<p>DATE <u>April 13, 1955</u></p>	

DATA RECORD

T -9510

Project No. (II): Ph-50(49)      Quadrangle Name (IV):

Field Office (II): Ship HODGSON      Chief of Party: Walter H. Bainbridge

Photogrammetric Office (III): Portland, Oregon      Officer-in-Charge: Charles W. Clark

Instructions dated (II) (III): 27 June 1949 & Supplemental 1 dtd.      Copy filed in Division of  
9 June 1950      Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10000      Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III):

Date received in Washington Office (IV): 2-19-51      Date reported to Nautical Chart Branch (IV): FEB 26 1951

Applied to Chart No.      Date:      Date registered (IV): 7 Jan. 1955

Publication Scale (IV):      Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): ~~Mean Sea Level~~ *Col. R. Datum*

Mean sea level except as follows: *see attached profile, p. 20*  
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): SMELT (WASH) 1934

Lat.: 46° 10' 35.708"      1102.5m      Long.: 123° 12' 37.959"      814.2m      Adjusted x  
(750.1)m      (472.8m)      Unadjusted

Plane Coordinates (IV):      State:      Zone:

Y=      X=

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

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



## DATA RECORD

Field Inspection by (II): **Paul Taylor** Date: **September, 1950**

Planetable contouring by (II): **None** Date:

Completion Surveys by (II): **Ship HODGSON** Date: **October, 1950**

Mean High Water Location (III) (State date and method of location): **Located in field on field photographs by Ship "Hodgson" in Sept. 1950.**

Projection and Grids ruled by (IV): Date:

Projection and Grids checked by (IV): Date:

Control plotted by (III): **C.C. Wiebe** Date: **10/10/50**

Control checked by (III): **F.H. Elrod** Date: **10/11/50**

Radial Plot or Stereoscopic **J.E. Deal and R.A. Davidson** Date: **10/30/50**  
Control extension by (III):

Stereoscopic Instrument compilation (III):  
     Planimetry Date:  
     Contours Date:

Manuscript delineated by (III): **M.B. Elrod** Date: **12/1/50**

Photogrammetric Office Review by (III): **Ree H. Barron** Date: **12/5/50**

Elevations on Manuscript  
checked by (II) (III): Date:

Camera (kind or source) (III): Single lens

PHOTOGRAPHS (III)					
Number	Date	Time	Scale	Stage of Tide	
4252	9/18/48	2:00	1:10000 ratio	7.3 ft. above M.S.L.	
4254	9/18/48	2:00	"	7.3 "	
4346 to 4354 incl.	9/25/48	3:15	"	3.2 "	
4365 to 4374 "	9/18/48	2:55	"	7.3 "	
4386 to 4395 "	9/18/48	3:10	"	7.2 "	
4420 to 4428 "	9/18/48	3:20	"	7.0 "	

Tide (III)

Reference Station: ASTORIA, ORE. TONGUE PT.  
 Subordinate Station: EAGLE CLIFF, WASH.  
 Subordinate Station:

Diurnal

Ratio of Ranges	Mean Range	<del>Spring</del> Range
--	6.5	8.2
--	4.5	5.5

Washington Office Review by (IV): *Lana T. Stevens*  
 Final Drafting by (IV): *J. H. Francis*  
 Drafting verified for reproduction by (IV): *W.D. Hallum*  
 Proof Edit by (IV):

Date: *12 Sept. 1952*  
 Date: *Jan 22, 1954*  
 Date: *2-9-54*  
 Date:

Land Area (Sq. Statute Miles) (III): 20  
 Shoreline (More than 200 meters to opposite shore) (III): 13  
 Shoreline (Less than 200 meters to opposite shore) (III): 17  
 Control Leveling - Miles (II): None  
 Number of Triangulation Stations searched for (II): 46 Recovered: 26 Identified: 21  
 Number of BMs searched for (II): 4 Recovered: 4 Identified: 3  
 Number of Recoverable Photo Stations established (III): 23  
 Number of Temporary Photo Hydro Stations established (III): 13

Remarks:

Summary to Accompany T-9510

As originally set up Columbia River shoreline project Ph-50(49) consisted of two parts: Part I from Sandy Island, near Kalama, downstream to include Crims Island; Part II from Wallace Island, downstream to Altoona and Svensen, Cathlamet Bay. This layout left a four-minute gap between parts I and II and between Part I and project CS-322 next south.

Two new surveys (1:10,000) were added to project Ph-50(49) by supplementary instructions 1 and 2: T-9510 for the gap west of Part I and T-9511 for the gap south of Part I.

A third supplementary instruction provided for a series of surveys to complete the shoreline mapping of Columbia River from Cathlamet Bay to the Pacific Ocean. This is Part III of the project.

Part I consists of twelve map manuscripts at a scale of 1:5,000, T-9254 to T-9265, inclusive.

Part II has seven map manuscripts at a scale of 1:10,000, T-9266 to T-9272, inclusive.

Part III has ten map manuscripts at a scale of 1:10,000, T-9886 to T-9895, inclusive.

These three parts, together with T-9510 and T-9511, provide for the shoreline mapping of Columbia River from its mouth to Woodland, Washington.

Hydrographic and photogrammetric parties worked concurrently and cooperatively on the whole project, under the supervision of Comdr. H. J. Healy in 1949, Comdr. W. H. Bainbridge in 1950 and Comdr. H. G. Conerly in 1951 on the ship HODGSON.

FIELD INSPECTION REPORT  
Map Manuscript T-9510  
Project Ph-50(49)

Refer to the Field Inspection Report for T-9266 to T-9269 Inclusive and T-9510 which is included in the descriptive report for T-9266 to T-9269 inclusive.

PHOTOGRAMMETRIC PLOT REPORT  
 Map Manuscript T-9510  
 Project Ph-50(49)

21: AREA COVERED:

The area of the map manuscript covers only a small section of the Columbia River lying between Abernethy Point and the upstream end of Wallace Island. In order to furnish hydrographic signals to the Ship HODGSON for the area of Boat Sheet No. H-1450 it was necessary to extend the limits of this radial plot to cover a section of the Columbia River between Lácoda, Oregon and the downstream end of Wallace Island. Included in this radial plot were Map Manuscripts T-9510, the west half of T-9254, and the east half of T-9272.

22: METHOD:

There is a considerable difference between Map Manuscripts T-9272 and T-9510 in acetate distortion and a good junction of the two projections could not be made when the sheets were joined. To correct this condition the portion of the projection for T-9272, which fell in the area of this radial plot, was redrawn on new acetate using the same distortion factor as that existing for T-9510. Also, the original radial plot for T-9254 had been made at a scale of 1:5,000 and this office was furnished an ozalid print of a reduction of T-9254 at a scale of 1:10,000. Considerable paper distortion was evident in this print and it was necessary to extend the projection of T-9510 eastward (in the margin and by dog ear) to include the triangulation stations LÁCODA (ORE.) 1936 and STELLA RANGE REAR LIGHT (WASH.) 1936.

The photo hydro stations and recoverable topographic stations, located by the radial plot, in the west margin of T-9510 were transferred to T-9272.

The radial plot progressed in the same manner as that described in the Photogrammetric Plot Report for T-9266 to T-9267 inclusive.

Items 23, 24, 25, and 26, of the Photogrammetric Plot report for T-9266 to T-9269 inclusive are applicable to the radial plot for T-9510.

23 Adeq control  
 24 Sufficient detail  
 25 Photogrammetry  
 26

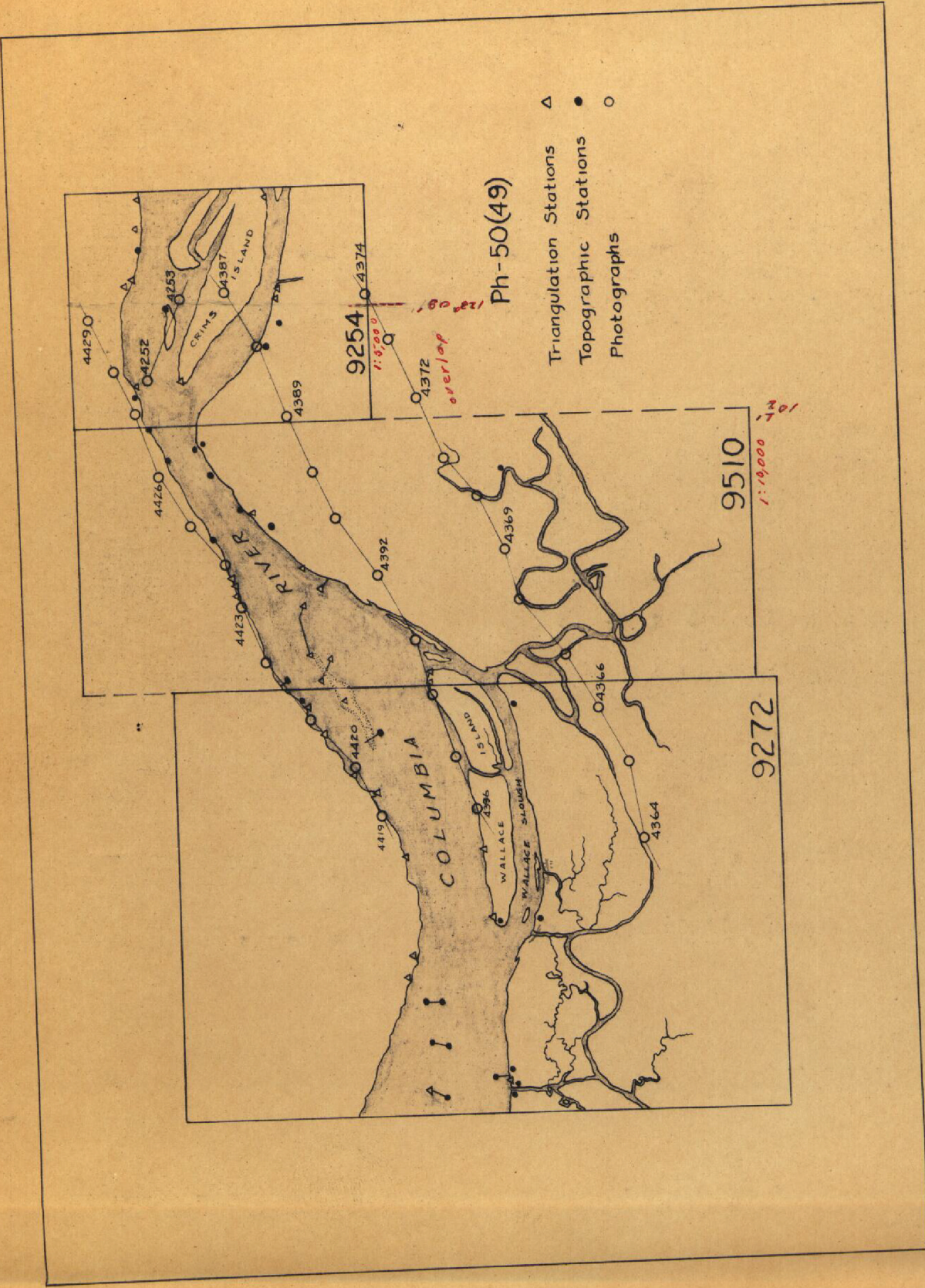
Approved:

*Charles W. Clark*  
 Charles W. Clark  
 Officer-in-Charge

Respectfully submitted:

*J. Edward Deal Jr.*  
 J. Edward Deal, Jr.  
 Cartographer





MAP T. 9510 PROJECT NO. Ph-50 SCALE OF MAP 1:10000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\mu$ -COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
✓ EUREKA DIKE UPPER LT, 1950	d 393 p 27 Ship HODGSON	NA 1927	46° 10' 03.544" 123° 12' 50.706"	G-8894, p.1110 (adj)	03.848" 50.705"	109.4 (1743.2) 1087.8 (199.4)			
✓ HOTCHKISS DIKE LT, 1950	" p.27	"	46° 09' 52.397" 123° 12' 38.543"	" p.1111	52.395" 38.545"	1617.9 (234.7) 826.9 (460.3)			
✓ SHAD 2, 1950	" p.29	"	46° 10' 03.842" 123° 12' 11.573"	" p.1110	03.842" 11.574"	118.6 (1734.0) 248.3 (1038.9)			
✓ DOT (USE), 1950	"	"	46° 10' 36.64" 123° 12' 35.39"	"		1131.3 (721.3) 759.2 (527.8)		fm 524 (sta. not marked. Center of whitewashed 5-ft circle)	
✓ BOUNDRY POST COWLITZ - (WAHAKIAKUM COUNTIES WN), 1950	"	"	46° 10' 34.961" 123° 12' 43.576"	" G.P. name: Cowlitz - Wahkiakum (Counties Boundary Post 1950 (Wash))	un changed	1079.5 (773.1) 934.7 (352.3)			
✓ SMELT (WASH) 1934 r 1936	G-3422 p. 330	"	46° 10' 35.708" 123° 12' 37.959"	"		1102.5 (750.1) 814.2 (472.8)			
✓ DIKE 62.5, DOLPHIN, E. END (WASH-ORE) 1936	G-3422 p. 349	"	46° 09' 43.926" 123° 13' 40.807"	"		1356.3 (496.3) 875.6 (411.7)			
✓ ABERNETHY POINT LIGHT (WASH) 1936	G-3422 p. 358	"	46° 11' 25.69" 123° 09' 59.44"	"		793.2 (1059.4) 1274.6 (12.0)			
✓ H and B. FISHHOUSE FLAGPOLE (ORE) 1936	G-3422 p.349	"	46° 10' 33.143" 123° 11' 30.830"	"		1023.3 (829.3) 661.3 (625.7)			
✓ POINT (USE) (ORE) 1936	G-3422 p.332	"	46° 11' 01.86" 123° 09' 57.05"	"		57.4 (1795.2) 1223.6 (63.2)			
✓ MAC (TOPO) 1937	From USE Coor.	"	46° 10' 54.592" 123° 11' 44.082"	"		1685.6 (167.0) 945.5 (341.4)		fm. 524.	
✓ BRADBURY (ORE) 1873	G-3422 p. 317	"	46° 09' 10.267" 123° 09' 15.794"	"		317.0 (1535.6) 338.9 (948.6)			

COMPILATION REPORT  
Map Manuscript T-9510  
Project Ph-50(49)

Items 31 to 38 inclusive, and Items 48 and 49 of the compilation report for T-9266 to T-9269 inclusive are applicable to T-9510.

39: JUNCTIONS:

Satisfactory junctions have been made between T-9254 and T-9510 and between T-9272 and T-9510.

46: COMPARISON WITH EXISTING MAPS:

A visual comparison was made with the 15 minute CLATSKANIE, WASH.-OREG., Scale 1:62,500, Edition 1942 published by Corps of Engineers, U.S. Army. In general the planimetry which is common to the Map Manuscript and quadrangle is in agreement.

The prints of T-6524 and T-6567-a on clear acetate of the 1936 surveys which covered portions of this map manuscript were forwarded to the Ship HODGSON along with other data for Map Manuscripts T-9254 and T-9272 and therefore were not available for comparison purposes.

47: COMPARISON WITH NAUTICAL CHART:

Comparison was made with nautical chart No. 6152, Scale 1:40,000, published July 1944, last printed 7/4/49 and hand corrected 8/22/49.

There is a small island above mean high water at Lat.  $46^{\circ} 09' 50''$  and Long.  $122^{\circ} 13' 35''$  which does not appear on this nautical chart.

There are numerous minor changes since the chart was compiled.

48: GEOGRAPHIC NAMES:

An alphabetical list of all geographic names appearing on the map manuscript is included in this descriptive report. Unless otherwise noted these names were secured from Nautical Chart No. 6152. Refer to Item 13 of the field inspection report for T-9266 to T-9269 incl. and T-9510 which is attached to the descriptive report for T-9266 to T-9269 inclusive.

Approved:

*Charles W. Clark*  
Charles W. Clark  
Officer-in-Charge

Respectfully submitted:

*J. Edward Deal Jr.*  
J. Edward Deal, Jr.  
Cartographer

T-9510  
GEOGRAPHIC NAMES

- Abernethy Creek
- Beaver Slough - (Clatskanie 15 min. Quad U.S.E.) *(also apply to waterway into Columbia R. ←)*
- Bradbury Slough
- Clatskanie Creek
- Clatskanie - (Clatskanie 15 min. Quad. U.S.E.)
- Clatskanie Slough - (Clatskanie 15 min. Quad. U.S.E.) *(delete at downstream position ←)*
- Columbia River
- Crims Island
- Eureka Channel
- Gull Island
- Gull Island Channel
- Mill Creek
- Quincy - (Clatskanie 15 min. Quad. U.S.E.)
- Wallace Island
- OREGON
- WASHINGTON

Names underlined in  
red are approved.  
9-11-52  
L. Heck

T-9510Recoverable Topographic Stations: 1950

- BM L 202 (1941)
- ABLE, 1950
- TBM 3 (1945)
- BM R 63 (1934)
- ORE (1937)
- OAK POINT LIGHT
- MAC (1937)
- PIN (Filed under T-9272)
- GAB (1937)
- BIL, (1937)
- ANMO
- TERM
- BEAVER TANK (Ldmk. Ch. Let. No. 983, 1950)
- TANK (D/S) (Filed under T-9254)
- TANK ELEV. (U/S) " " "
- BARN, MIDDLE CUPOLA
- DOT (USE)

Topographic Stations Located in Radial Plot but Falling to East of T-9510:

BUNKER HILL LIGHT

Topographic Stations located in Radial Plot but Falling in Area of T-9272:

PIPE TREE, 1950  
 BM 1  
 NO. 1 NEW DOL.  
 JET, 1950  
 REST, 1950  
 WALLACE SLOUGH RED BARN CUPOLA, 1949 (CUP 1930)

T-9510Recoverable Hydrographic Stations:

<u>Station No.</u>	<u>Description</u>
234	WW cross boards on pile U/S log dump.
235	WW and banner on triple pile.
242	WW double pile and old flag.
244	WW rock.
252	White cross banner on stub pile.
274	White banner on NW one of a group.
275	R/G boat house on piling.
276	WW 4-pile dolphin.
279	R/G Point Adams Fish Station (painted) (NOTE: Delete overhead cable which is shown <sup>Guy</sup> on Chart No. 6152. Lat. 46 - 08.3N, Long. 123 - 13.7W).
290	D/S gable Beaver dock office building.
293	WW dike dolphin.
294	WW dolphin at small wharf.
295	WW stub dolphin.
296	WW tall pile at end of jetty.
299 (5720, 1949) <sub>T-9254</sub>	R/G red cannery building.
305 (5714A, 1949) <sub>T-9254</sub>	Yellow flag on dolphin offshore of #6.
306 (5716A, 1949) <sub>T-9254</sub>	WW dolphin No. 7.
307	W flag on dolphin offshore from No. 9.
308	WW and W and yellow flag, outside end dolphin.
309	WW dolphin and yellow flag (inshore of 5712B, 1949 which is destroyed.).

T-9510Recoverable Hydrographic Stations - Continued:

<u>Station No.</u>	<u>Description</u>
310 (5710 B, 1949)	WW inshore 1 of 2 dolphins.
311 (5708 B, 1949)	Unmarked dolphin, inshore of 3.
312 (5706 B, 1949)	WW and flag on inshore one of three, dolphins.
Not Numbered	Beaver Tree (USE). Whitewash and white wrap on tree at east end of Gull Island. HWL on range to STELLA RANGE REAR is 13 meters and on range to Hydro #235 is 21 1/2 meters.
	Hydro #235 64° 06'
	MIDWAY TREE (USE) 41° 54'
	STELLA RANGE REAR 41° 54'
	MIDWAY TREE (USE) to Bunker Hill Lt. 31° 23'
Not Numbered	Large white target in willows. HWL on range to ABERNETHY POINT LT. is 10.9 meters and on range to BUNKER HILL LT. is 7.0 meters.
	ABERNETHY POINT LT. 104° 12'
	MIDWAY TREE (USE) 38° 58'
	STELLA RANGE REAR 38° 58'
	MIDWAY TREE (USE) to BUNKER HILL LT. 29° 38'

Hydrographic Stations Located in Radial Plot but Falling to the East of T-9510: (T-9254)

<u>Station No.</u>	<u>Description</u>
300 (5718, 1949)	D/S gable shiny tin-roofed boat house.
301	WW single pile at float.
302	D/S gable tin boat house.
303 (5710 A, 1949)	Old flag on dolphin No. 4.
304 (5712 A, 1949)	Dolphin No. 5, unmarked.

T-9510Hydrographic Stations Located in Radial Plot but Falling to the East of T-9510 - Continued:

<u>Station No.</u>	<u>Description</u>
313	White banner in tree.
314	Yellow banner on tallest of 5 piles.
315 (5704 B, 1949)	R/G barn.
316	Yellow flag on stub pile.
No Number	Large whitewashed tripod, 1 meter inshore of HWL: ABERNETHY POINT LT.      38° 34' MIDWAY TREE (USE) STELLA RANGE REAR      102° 46' MIDWAY TREE (USE) to BUNKER HILL LT.      48° 18'

Hydrographic Stations Located in Radial Plot but Falling in Area of Sheet #T-9272:

<u>Signal No.</u>	<u>Photo</u>	<u>Description</u>	
255	4418	WW detached boulder, 3 m. offshore bares 8 feet.	Fat
256 (1101-1949)	<i>Not identical (photo 4418) (see over) (see also Rev. Rept. T-9272)</i>	WW board signal over iron pipe (Shale USE) on HWL. Believe signal pricked in 1949 is boulder and signal is to NE. (Check before using for hydro.)	
* 259 (1103-1949)	<i>7 (see over) 4394</i>	Whitewash on large <sup>inshore</sup> rock downstream of 2.	Hide
261	4394	WW tripod over bush 12 m. N of HWL.	Gas
262	<i>Vol. 1, p. 4</i>	White X banner in marsh (not on photo).	Add
263 (1102-1949)		WW dolphin and yellow flag.	Day
264	4397	Yellow pile and white flag.	Elf
266	"	R/G open face unpainted barn.	see
267	"	WW snag tree.	Cop

\* back of photo 4396 says No 257 = 1103, 1949. No. changed to 259 on Ms.  
 No number 259 found on field inspection photos

260      Bob      4396      Snag.      Sextant fix & pricked point photo 4396  
 257 = 1103, 1949. .... 310 20'  
 Waterford Lt. .... 410 27'  
 Cooper Lt. ....  
 Waterford Lt. .... 730 35'  
 A Reka - - - - -



T-9710

Hydrographic Stations located in Radial Plot but falling to the East of

No 258 (Vim on H-7862) sextant fix data on back of photo 4394  
 Cooper Point Lt. 36° 42'  
 Reka, 1959  
 Eureka Dike Lower Lt 33° 07'  
 Reka, 1957  
 Eureka Dike Upper Lt. 33° 09'

No. 1101 (1949) was pricked on H.W.L. in field photo 4414. A second point was pricked (but not circled) NE of the first point. This pt. had the note "Approx. location SHALE (USE). Plat. for Hydro. use." "White wooden signal. Use with caution. Unmarked 2" iron pipe. Identity not positively established."

Office printing of # 251

ABERNETHY POINT LT. 38° 24'  
 MIDWAY TREE (USE) 102° 46'  
 STELLA RANGE REAR  
 MIDWAY TREE (USE) to  
 BUNKER HILL LT. 18° 48'

Hydrographic Stations located in Radial Plot but falling in area of

Sheet T-9272

Description	Station No.
WW detached boulder, 3 m. offshore bars 8 feet.	252
WW board signal over iron pipe (Shale USE) on H.W.L. Believe signal pricked in 1949 is boulder and signal is to NE. (Check before using for hydro.)	256 (1101-1949)
Whitewash on large rock downstream of S.	259 (1103-1949)
WW tripod over bush 1.5 m. N of H.W.L.	261
White X banner in marsh (not on photo).	262
WW dolphin and yellow flag.	263 (1105-1949)
Yellow pile and white flag.	264
R/G open face unpainted barn.	266
WW snag tree.	267

No. changed to 257 on A. back of photo 4394. No. 257 was pricked on H.W.L. in field photo 4394.

T-9510Hydrographic Stations Located in Radial Plot but Falling in Area of Sheet #T-9272 - Continued:

<u>Signal No.</u>	<u>Photo</u>	<u>Description</u>	
268	4397	Yellow wrapped snag in water.	Dew
269	"	White banner on stub pile. (3rd row inshore and 3rd row inshore.)	Gam
270	"	Cupola, unpainted E-W barn.	Ash
271	4396	Cupola, unpainted hip-roofed barn.	Cut
272	"	R/G unpainted barn on levee.	Dud
273	"	WW 3-pile dolphin.	Eva
274	4394	White banner on NW one of a group.	Wad
275	"	R/G boat house on piling.	Mal
276	"	WW 4-pile dolphin.	Hum
277	"	WW dolphin.	Rug
278	"	WW leaning dolphin.	Rip
279	"	R/G Point Adams Fish Station (painted). (NOTE: Delete overhead cable which is shown on chart No. 6152. Lat. 46 - 08.3 N, Long. 123 - 13.7 W).	Guy
280	"	R/G red boat house on piling just west of Clatskanie Creek.	Fir
285	4396	White banner in tree.	Hub
286	"	Small stack on mint still.	But
No Number		Yellow flag and whitewashed boards.	
		Hydro # 273	31° 20'
		" # 272	
		" # 271	36° 41'
		# 272 to # 270	111° 06'
No Number		WW single pile downstream end of row of piles.	
		No trespassing sign.	
		Hydro # 276	26° 45'
		" # 280	
		" # 281	94° 42'
		# 280 to # 273	140° 50'

T-9510Hydrographic Stations Located in Radial Plot but Falling in Area of Sheet # T-9272 - Continued:

<u>Signal No.</u>	<u>Description</u>
· No Number	WW target on wrecked boat 1 meter south of shoreline:
	Hydro # 281                    76° 50'
	" # 273
	" # 272                    42° 19'
	# 273 to # 271            50° 43'
· No Number	WW target in tree 2 meters south of HWL:
	WATERFORD LT.            31° 09'
	COOPER POINT LT.
	EUREKA LT.                44° 21'
	COOPER POINT LT. to REKA                    49° 20'

### PHOTOGRAMMETRIC OFFICE REVIEW

T-9510

1. Projection and grids  2. Title  3. Manuscript numbers  4. Manuscript size

#### CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy  6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)  7. Photo hydro stations  8. Bench marks   
9. Plotting of sextant fixes  10. Photogrammetric plot report  11. Detail points

#### ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline  13. Low-water line  14. Rocks, shoals, etc.  15. Bridges  16. Aids to navigation  17. Landmarks  18. Other alongshore physical features  19. Other along-shore cultural features

#### PHYSICAL FEATURES

20. Water features  21. Natural ground cover  22. Planetable contours  23. Stereoscopic instrument contours  24. Contours in general  25. Spot elevations  26. Other physical features

#### CULTURAL FEATURES

27. Roads  28. Buildings  29. Railroads  30. Other cultural features

#### BOUNDARIES

31. Boundary lines  32. Public land lines

#### MISCELLANEOUS

33. Geographic names  34. Junctions  35. Legibility of the manuscript  36. Discrepancy overlay  37. Descriptive Report  38. Field inspection photographs  39. Forms

40. Lee H. Barron J. Edward Deul Jr.  
Reviewer Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

#### FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

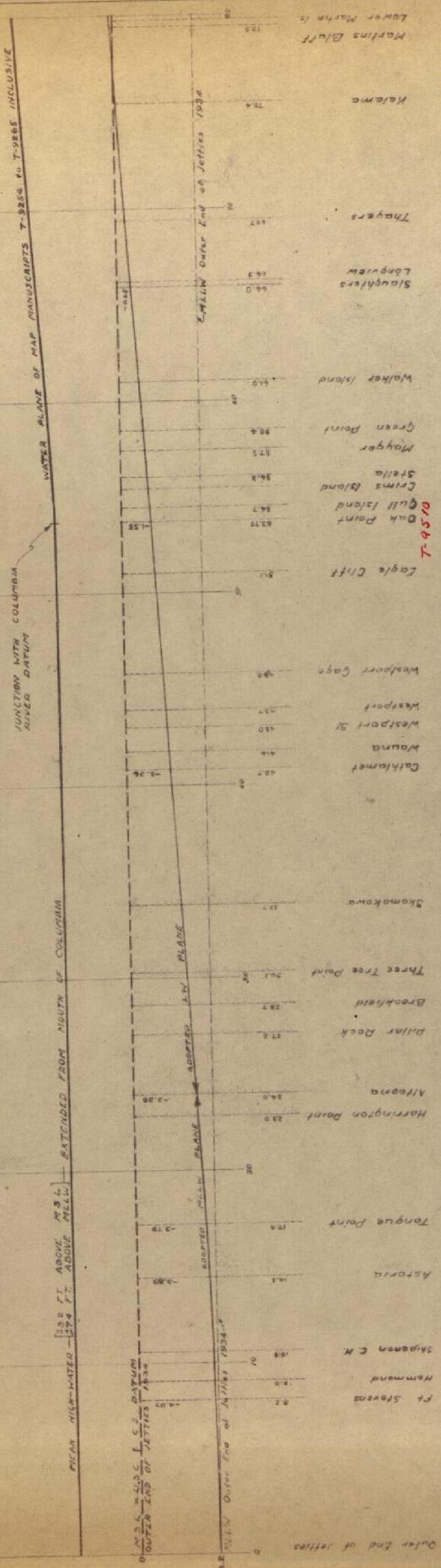
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

\_\_\_\_\_  
Compiler Supervisor

43. Remarks:

# COLUMBIA RIVER WATER PROFILES MOUTH TO LOWER MARIN ISLAND

ABOVE INFORMATION FROM COLUMBIA RIVER WATER  
PROFILES - MOUTH TO BONNEVILLE  
U.S. ENGINEERS OFFICE - PORTLAND OREGON



Foot Above MSL (Base 0) At Outer End of Jetty

HORIZONTAL 1" = 5 MILES  
VERTICAL 1" = 5 Feet

T-3224

Review Report T-9510  
Shoreline Map  
12 September 1952

62. Comparison with Registered Surveys:

T-1401b	1:10,000	1874	Wallace Island to Oak Point
T-6524	1:10,000	1936	Wallace Island to Eagle Cliff
T-6567a	1:10,000	1937	Oak Point to Walker Island

Except for contours on T-1401b and the bluff symbol along the north shore on T-1401b and T-6567a, survey T-9510 supersedes the older surveys for charting purposes.

63. Comparison with Maps of Other Agencies:

USE Clatskanie, Oregon-Washington 1:50,000, 1947 (1937 photos)

Because of the small scale of the quadrangle, visual inspections afford only evidence of general agreement in shoreline.

64. Comparison with Contemporary Hydrographic Surveys:

H-7862	1:10,000	1950
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Both T-9254 (1:5,000) and T-9510 (1:10,000) include the area 123° 09' to 10½' of the hydrographic survey. During review T-9510 has been revised to conform to T-9254 in shoreline, dolphin, and pile detail. (See, also, Review Report T-9254 to T-9265, heading 64.) *Hydro. revised 4/1/52 by R.E.E. - S.F.d.*

Snags delineated on H-7862 were not transferred to T-9510.

65. Comparison with Charts:

6152	1:40,000	July 1944, corr. January 1951
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This chart is based on a former survey so that it conforms only partially to T-9510.

T-9510 was applied to the reconstruction prior to review.

66. Accuracy:

This map complies with project instructions and the National Standards of Map Accuracy.

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Reviewed by:

Lena T. Stevens  
Lena T. Stevens

APPROVED:

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