9254 9265 [mil



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Diag. Cht. Nos. 6152 & 6153

Form, 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAPMETRIC)
T-9254 tO
Field No. Ph-50 (49) Office No.T-9265 Incl.

LOCALITY

State OREGON-WASHINGTON

General locality COLUMBIA RIVER

Locality KALAMA, WASHINGTON TO THE DOWNSTREAD

END OF CRIMS ISLAND

194 9...

CHIEF OF PARTY
H.J.Healy, Chief of Field Party.
C.W.Clark, Portland Photogrammetric Office

LIBRARY & ARCHIVES

DATE May - 25- 1953

B-1870-1 (1

DATA RECORD

T -9254 to T-9265 Inclusive

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

Field Office (II): Ship "HODGSON"

Chief of Party: Henry J. Healy

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

Instructions dated (II) (III): 27 June 1949 (Field and Office)

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:5,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): None

Date received in Washington Office (IV): 2-15-50. Date reported to Nautical Chart Branch (IV): 2-2/-50

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): Mean Sea Level (136) Mean sea level except as follows:

Elevations shown as (25) refer to mean high water Efevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III): See reverse side of this page.

Lat .:

Long.:

Unadjusted

Plane Coordinates (IV):

State:

Zone:

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

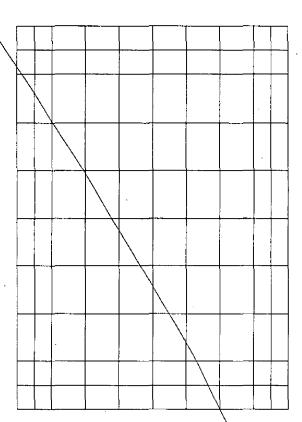
When entering names of personnel on this record give the surname and initials, not initials only.

Reference Stations

```
T-9254
MIDWAY TREE (USE) (WASH.), 1936
Lat. 46° 11' 28.535"
                                    881.0(971.5)
     Long. 123° 08' 44.460"
                                    953.4(333.2)
T-9255
WORK (USE) (WASH), 1936 RM 1
Lat. 46 10' 41.187" 1271.7( 580.8)
Long. 123° 05' 41.063" 880.8( 406.2)
T-9256
No control in this map manuscript.
Use WORK (USE) (WASH.) 1936 RM. 1 listed above.
T-9257
FISHER ISLAND DIKE 1 LIGHT U.S.E. (Topo. Station)
Lat. 46° 09' 27.147" 838.2(1014.4)
     Long. 123° 03' 15.824" 339.5( 947.9)
T-9258
RINEARSON 2 (ORE.), 1936
 Lat. 46° 07' 56.538" 1745.7(106.9)
Long. 123° 02' 29.346" 630.0(658.0)
T-9259
BLAST (USE) (WASH.), 1936
Lat. 46° 07' 41.163" 1270.9(581.7)
Long. 122° 59' 14.128" 303.3(984.8)
T-9260
WILLIAMS, 1934
Lat. 46° 06' 24.423" 754.1(1098.5)
     Long. 123° 01' 33.816"
                                   726.3(562.4)
T-9261
RAINIER HIGH SCHOOL FLAGPOLE (ORE.), 1936
Lat. Lat. 46° 05' 07.793" 240.6(1611.9)
     Long. 122° 55' 46.724" 1003.9( 285.2)
T-9262
COWEMAN (WASH.), 1873
Lat. 46° 06' 25.499" 787.3(1065.3)
     Long. 122° 52! 35.678"
                                    766.2(522.3)
T-9263
WARREN 2, (ORE.), 1937
Lat. 46° 04' 58.148"
Long. 122° 54' 40.041"
                                   1795.4( 57.1)
                                  860.3(428.9)
T-9264
COFFIN ROCK (USE) (ORE.), 1912
Lat. 46° 02' 02.706"
                                    83.5(1769.0)
     Long. 122° 52' 47.150"
                                   1014.0(276.3)
```

Reference Stations - Continued

T-9265
DUMP (USE)(WASH.), 1937
Lat. 46° 00' 09.711" 299.8(1552.7)
Long. 122° 51' 20.175" 434.1(856.9)



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

DATA RECORD

	chief of Party: Henry J. Survey J. O. Boy	SON" Healey		Date: Ju	ly & Aug	. 1949
	Planetable contouring by (II):	-	• •	Pate:		
	Completion Surveys by (II):	,		Date:		·
*	Mean High Water Location (III) (State da above mean lowest low water in July and August 1949 on 18th Sept. 1948 when the rilow-water of the U.S. Engin Projection and Grids ruled by (IV):	ete and method of location (Columbia River U.S. Engineers prover was at a low	Datum) and hotographs m stage after	was located ade on the the 1948 f ngton is 0	in the 5th, 6th lood. T	field , and he -0.67ft,
	Projection and Grids checked by (IV):	,		Date:		-
		lrod, Roy A. Dav Helen L. Laube	idson and	Date: A	ug., Sep	t. 1949
	Control checked by (III):Frank H. El	rod, James L. Ha Ree H. Barron	rris and	Date: <u>A</u>	ug., Ser	ot. 1949
•	Radial Plot or Stereoscopic James L Control extension by (III):	. Herris & J.E.	Dea 1 .	Date: <u>A</u>	ug., Sèr	ot. 1949
•	Stereoscopic Instrument compilation (III):	Planimetry : Contours	•	Date:		
	Manuscript delineated by (III): See Re	everse Side		Date:		
,	Photogrammetric Office Review by (III):	See Reverse Si	de	Date:		
	Elevations on Manuscript checked by (II) (III):			Date:		•

Form T-Page 3

M-2618-12(4)

Manuscript Delineation

		14		Date
Marie B. Elrod	T-9254, T-	-9260, T-9261,	T-9264 Seg	ot. 1949
Carita C. Wiebe		-9262, T-9263		ot. 1949
Helen L. Laube		-9258, T-9265	Ser	t. 1949
Ree H. Barron	T-9257, T-		Ser	t. 1949

Photogrammetric Office Review

the field 6th, and . The	Frank H.	Elrod	T-9254, T-9262,	T-9256, T-9263,	T-9257, T-9264	T-9258, T-9259 and T-9265	, T-9261 Sept. & Oct.	1949
15 6					4-			

Ree H. Barron	T-9255 and T-9260	U.S. Ingineers	Sept. & Oct. 1949
			ALCOHOL CANADA SERVICE

persistence of the Marie S. Mirod, Acy A. Davidson and Crims Island T-9254 Crims Island to Fisher Island T- 9255 7-9256 Mayger Hoe H. Harron 7-9258 Walker Island 7-9259 Mount Coffin 7-9260 Longview Bridge 7-9260 7-9261 Longview Bridge to Rainier Barnet . I come accompany to the Carroll Channel North 7-9262 Cottonwood Island 7-9263 T-9264 Coffin Rock

7-9265 Sandy Island

Camera (kind or source) (III): Single lens K-17 12 inch focal length

				PHOTOGRAPHS	(III)				
	Number		Date	Time	Scale		Stage of	Tide	
3940	to 3944	Incl.	9/5/48	2:07	1:5,000	ratio	1.45 ft.	above	M.S.L.
	to 4160		9/6/48	1:07	i i	11	1.35 #	~ H	11
	to 4190	ii .	9/6/48	1:37	ū	H	1.25 "	11	, n
4202	to 4213	ii	9/6/48	1:30	1.0	11	1.25 "	11	. 11
4225	to 4231	ii ii	9/6/48	1:17	ıı ı	11	1.45 "	11	11
4239	to 4246	II.	9/18/48	1:25	ii ii	n	0.35 "	11	11
4252	to 4296	ii.	9/18/48	2:00	tt .	11	1.75 "	#	11
4308	to 4321	11	9/18/48	2:13	ii ii	11	1.95 "	11	11
4370	to 4390	ii .	9/18/48	3:10	ii ii	H	3.15 "	- 11	- 11
4426	to 4429	ij	9/18/48	3:20	tt	11	3.35 "	tt	11

Tide (III)

Reference Station: Stage of tide reduced from actual readings
Subordinate Station: Of U.S. Engineers Tide Gage, Longview,
Subordinate Station: Washington. 0400 of gage = -0.67 ft. M.S.

Range	Range
3.3	4.0
	3.3

Washington Office Review by (IV):

L.T. Stevens

Date: 8- 21- 52

Final Drafting by (IV): Variou

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

11

- 1

Land Area (Sq. Statute Miles) (III): 6.7 (No interior detail inshore from shoreline.)

Shoreline (More than 200 meters to opposite shore) (III): 81.8 Statute Miles Shoreline (Less than 200 meters to opposite shore) (III): 7.5 Statute Miles

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 174

Recovered: 73

Identified: 40*

Number of BMs searched for (II): Unknown Recovered:

Number of Recoverable Photo Stations established (III): 67 = 39 aids + 29 ather

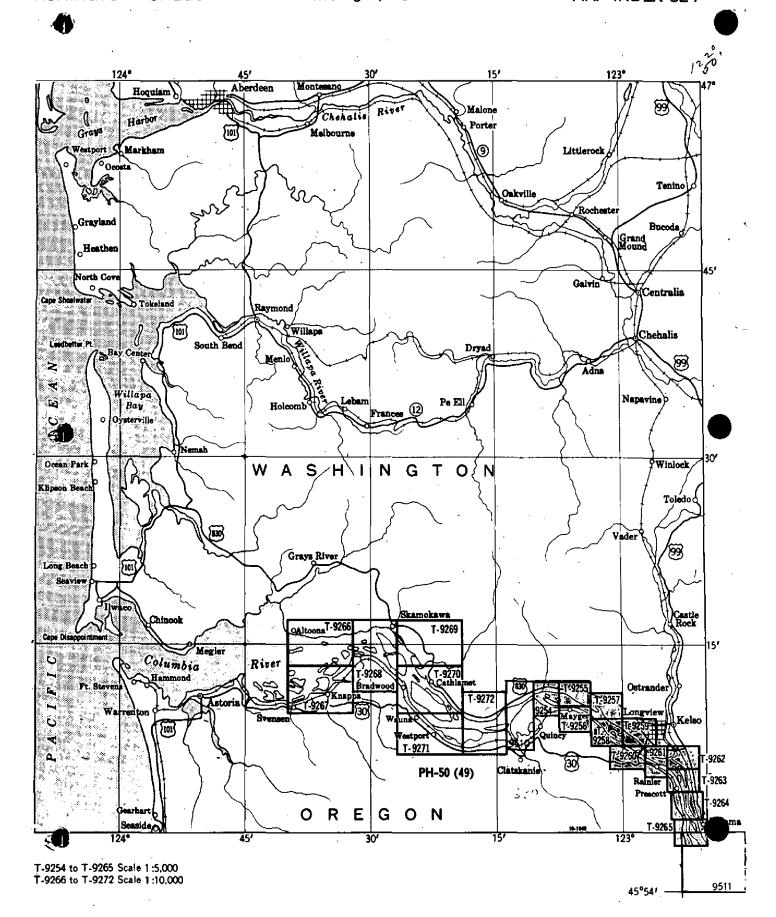
Number of Temporary Photo Hydro Stations established (III): 91

Remarks: * In addition there were 24 stations that were formerly triangulation stations but now can only be considered topographic stations which were identified for use in the radial plot. See remarks in Photogrammetric Plot Report under "Control".

UNITED STATES DEPARTMENT OF COMMERCE Coast and Geodetic Survey Washington, D. C.

ASHINGTON - OREGON

MAP INDEX 52-F



Summary to Accompany T-925h - T-9265 (One Descriptive Report)

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 Project Ph-50(49).

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 on the Ship HODGSON.

FIELD INSPECTION REPORT
Map Manuscripts T-9254 to T-9265 Inclusive
Project Ph-50(49)
1st. Priority Section

The field inspection for this area was done by the Ship "HODGSON" during July and August 1949.

For facts concerning the field inspection work refer to the Descriptive Reports for the hydrographic survey Project C.S. 339.

H-7742 to 7748,

4-7742 647748

PHOTOGRAMMETRIC PLOT REPORT Project Ph-50(49) Map Manuscripts T-9254 to T-9265 Inclusive

21: AREA COVERED:

This radial plot covers the shorelines of approximately a thirty mile portion of the Columbia River from the northwest end of Crims Island upstream to the north end of Deer Island. The area comprises map manuscripts No¹d. T-9254 to T-9265 inclusive and was radially plotted at a scale of 1:5,000.

22: METHOD:

The radial plot was run in three sections and each section included four map manuscripts as follows:

Section No. 1: T-9254 to T-9257 inclusive.

Section No. 2: T-9258 to T-9261

Section No. 3: T-9262 to T-9265 "

Base grid sheets were not necessary and each section of the radial plot was laid directly on the map manuscripts with acetate templets made from 1:5,000 scale ratio prints of 1:12,000 contact scale single lens photography.

This photography was made at a low water stage after the 1948 flood of the Columbia River by the Leonard Delano Co. of Portland, Oregon for the Corps of U.S. Engineers, Portland District. The contact negatives were obtained by this office and forwarded to the Washington Office where ratio prints were made.

Special fiducial marks for paper distortion correction were printed on these ratio prints. At the time these radial plots were started this office had not been furnished a master templet for use in paper distortion correction. Due to the urgency of completing the radial plots so that locations of photo hydro stations could be immediately furnished to the Ship "HODGSON", the corrections for paper distortion were omitted in the radial plots for Sections 1 and 2 when drawing the radials on the acetate templets. No serious trouble was encountered when orienting the templets in the area of these two sections of the radial plot.

Since the completion of the radial plot for section 3 was not especially urgent because the hydrographic work had been finished, paper distortion corrections were applied. The Washington Office was

requested to furnish a master templet for paper distortion corrections and on separate dates two templets were received. Both of these templets were laid out in twelve sections instead of sixteen. The master templets were measured and it was found that the two sides containing four sections each were divided equally. The other two sides containing only two sections each were then subdivided into four equal sections each by rotating the guide templet 90 degrees or one-quarter turn.

There were many cases where large differences existed between the principal point (located by the camera fiducial marks) and the position of the cross printed on the photographs. None of the differences equalled the maximum amount of 2 "m" millimeters when "m" is the ratio of enlargement.

Much more difficulty was encountered when orienting these templets in Section 3 of the radial plot which were corrected for paper distortion, than was encountered when orienting the templets in Sections 1 and 2 which were not corrected for paper distortion. Other factors however, such as the distribution and identification of horizontal control stations, tilted photographs, and the location of photograph flights may have been contributing to the difficulty. The radial plot was satisfactorily completed with the radials corrected for paper distortion.

Most of the radials to horizontal control stations passed through or were held tangent to their plotted positions and the intersections of radials to pass points, topographic station, and photo hydro stations, were very good throughout all three sections of this radial plot.

23: ADEQUACY OF CONTROL:

The horizontal control stations identified by the field party were adequate to control the orientation of the templets.

Attached to this report is a copy of a letter to The Director giving facts regarding triangulation stations FISHER (USE) 1936 and 7-9257 LONGVIEW LONG-BELL LUMBER CO., Center Tank (Wash.) 1934 both of which 7-9261 could not be held to during the running of the radial plot.

Many of the stations in the area are aids to navigation for which positions, by triangulation methods, had been established by the Coast and Geodetic Survey in 1934, 1935, and 1936. According to the 1949 Pacific Coast Light List practically every one of these aids to navigation has been rebuilt since 1936 and in most cases information could not be obtained to determine if the original object was rebuilt in exactly the same position or the distance and direction in which it may have been moved. The Portland District, Corps of U.S. Engineers

has established new positions since 1936 on most of these rebuilt aids to navigation but they state that these positions are probably less than 3rd. order accuracy. In any event many of these stations have again been rebuilt since their positions were established by the U.S. Engineers. After conferring with parties concerned with the location and upkeep of aids to navigation in the Columbia River it was believed that most of these aids to navigation when rebuilt were moved only slightly and in some cases not at all. It was therefore deemed advisable to classify these stations as recoverable topographic stations and plot the latest position available for use as control in the radial plot.

In general these rebuilt stations could be held to strongly along with the numerous 2nd and 3rd order Coast and Geodetic Survey stations which had been identified by the field party for use in the radial plot. Attention is called to the fact that a movement of as much as six feet from the original position would be difficult to detect by radial plot methods.

In several instances, however, errors were found in the positions furnished this office by the U.S. Engineers and in each of these cases evidence was obtained which proved that the aid to navigation had been moved considerably since the U.S. Engineers position was established.

These conditions are also applicable to dolphins on the Columbia River on which positions have been established. There were cases where aids to navigation and dolphins were being rebuilt and moved from their original location while the hydrographic and planimetric surveys were in progress.

Forms 524 have been submitted to the Ship "HODGSCN" for all of these rebuilt aids to navigation having positions established by the U.S. Engineers and which were held to in the radial plot. Also Forms 2016 1924 have been submitted to the Ship "HODGSCN" for other stations, held to in the radial plot, established by the U.S. Engineers and which have not been tied into a Coast and Geodetic Survey scheme of triangulation. The geodetic position, converted from a position on Oregon State Grid coordinates, is shown on the Forms 524. It is assumed that the Ship "HODGSCN" has made recommendations for the deletion as triangulation stations, of these rebuilt aids to navigation on Forms 526, "Recovery Note, Triangulation Station."

Attached to this descriptive report are Forms M-2388-12 for each map manuscript listing all recovered horizontal control stations in the area. Notes have been added on these forms to show how the stations were used during the running of the radial plot.

24; SUPPLEMENTAL DATA:

For the area of this radial plot this office was furnished enlargements at a scale of 1:5,000, printed on clear acetate, of the 1936 topographic surveys, scale 1:10,000 which show graphic control stations established at that time. As previously stated in side heading 23, "Adequacy of Control", the dolphins and aids to navigation are continually being rebuilt and moved due to damage by annual floods in the Columbia River and because of deterioration. It is believed that because of these reasons the field party was unable to recover more than two or three of these 1936 graphic control stations.

Attention is also called to the fact that discrepancies were noted when positions of triangulation stations, accurately plotted on the map manuscripts, were compared with those on the enlargements of the 1936 surveys. These errors are believed to be due to the magnification during the enlarging process of small errors in the plotting of triangulation stations on the original surveys.

These same discrepancies were found on the boat sheets when this office attempted to transfer the photo hydrographic stations, located during the radial plot, to the boat sheets. It is believed that the 1936 topographic survey data, on the boat sheets, was traced from the enlargements and therefore the same errors would exist.

25: PHOTOGRAPHY:

The photograph coverage was adequate for the radial plot work. Photograph No. 4379 is believed to be excessively tilted and should be used with caution. This photograph is not needed for coverage since photograph No. 4292 may be used in its place.

26: REMARKS:

It is believed that this radial plot furnished accurate locations for photo hydrographic stations, for use by the Ship "HODGSON" during the hydrographic survey and that shoreline surveys have been compiled that are well within the limits of the accuracy requirements for the project.

Charles W. Clark

Chief of Party

Respectfully submitted:

J. Edward Deal Je.
J. Edward Deal, Jr.

Cartographer

DEPARTMENT OF COMMERCE
U.S. Coast and Geodetic Survey
c/o Swan Island Postal Station
Portland 18, Oregon

RESTRICTED

19 October 1949

To:

The Director

U.S. Coast and Geodetic Survey

Washington 25, D.C.

Subject:

Triangulation Stations Project Ph-50(49)

During the running of the radial plots for Project Fh-50(49)
the two substitute stations identified by the field party for BISHER
(USE), 1936 could not be held. This station has a no check position
and was established by an angle and distance from FISHER (USE) Auxiliary (Wash.) 1936, (See description: Pamphlet 395 Page 11). This
latter station has been washed out or covered over. The land area in
the vicinity of FISHER (USE) 1936 is flooded during high water in the
Columbia River. A temporary station was established on the downstream
end of Fisher Island to replace FISHER (USE) 1936 for use as control
in the radial plot. This station held along with other stations in
the area. For this reason it is believed that either the pipe recovered by the field party is not FISHER (USE) 1936 or the published gec79257
graphic position is in error. The pricking card (Form M-2226-12)
notes that the station identified is FISHER (USE) 1926. The U.S.
Engineers do not have any record of a station of this name established
in 1926. R. card No 4774 (Heady) says as disk set in concrete mon. about 8 in
below surface, stamped Fisher, 1916.

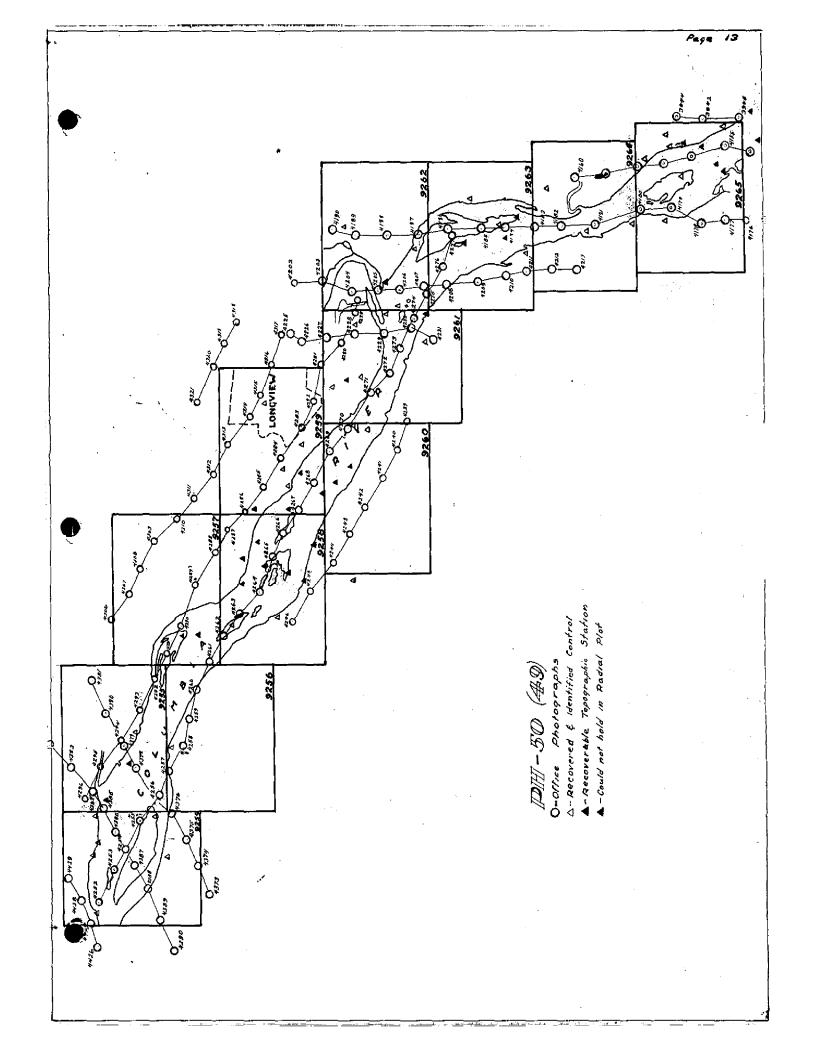
In addition the intersection station LONGVIEW LONG-BELL LUMBER CO., Center Tank (Wash.) 1934 could not be held by approximately 10 meters in latitude during the running of the radial plot.

Lt. Comdr. Paul Taylor of the Ship "HCDGSCN" was consulted about this station and he stated that while the hydrographic survey for this area was in progress it was evident that the published position of the tank was in error. He further stated that since there were many other smaller tanks in the area, it was believed that an error had been made in identification when observations were originally made on the station. This tank has been radially plotted and the scaled position is:

Latitude 46° 06' 487 meters Longitude 122° 56' 439 meters

Form 524 "Description of Recoverable Topographic Station" is being submitted for this tank.

Charles W. Clark Lt. Comdr.-USC&G Survey Chief of Party



STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DAIUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	1927 - DAIUM DISTANCE OR PROJECTION LINE IN METERS RD (BACK)	FACTOR DISTÂNCE FROM GRID OR PROJECTION LINE IN WETERS FORWARD (BACK)
MIDWAY TREE (USE)G-3422	G-3422	N.A.	111 097	28.535"			381.0	(971.5)	
(WASH.), 1936	Page 331	1927	123 081	44.460"			953.4	(333.2)	
1-1	fice Com	" 0	101 977	14.215"			438.9	(1413.7)	
9	G-3422	=	1230 071	42.008"			901.2	(386.0)	
LACODA SCHOOL	6-3752	п	101 097	08.715"			269.1	(1583.5)	
1,624	Pg 346		1230 081	45.366"			973.2	(313.9)	
STELLA RANGE REAR	G-37.22	ш	111 097	23.37 "	9		721.6	(0.131.0)	
36	Page 358		1230 071	32.39 "			9.769	(592.1)	
ABERNETHY POINT	6-3422	=	11.	25.69 #			793.2	(1059.4)	
LIGHT (WASH.),1936 Page 358	Page 358	4	160	1 77.65			1274.6	(12.0)	
			The following stations	e station	were recovered but	not	The same of	4	
			identified f	for use in	the radial plot.		1		
T.Acona (Oreg.)	6-3422	=		10.064"			310.7	(15/1.8)	
	Page 317		1230 081	149.84711			1069.4	(217.8)	
	6-3422	=	111 997	29.88 "			922.5	(930.0)	
, 1936	Page 317		1230 081	45.46 "			8.776	(311,8)	
	6-3422	H	460 111	22.872"			706.2	(1146.3)	
NEST (WASH.) 1936Page 317	Page 317		1230 071	59.430			1274.5	(12.2)	
	*		The following station but is now considered	ng station considered	has been rebuilt sinc		established	peq	
1			satisfactory for use	v for use	as control in the radia	al plot.		1	/
BUNKER HILL LIGHT	I G-3422	-	111 097	22.52 #			695.3	(1157.2)	Form 524
1949 (Topo.)	Page 359		1230 081	18.04 "			386.9	(899.8)	
			- "						
1 FT.=.3048006 METER	Richter		8/8/49	(CHECKED BY. J. C.	Lajoye		8/9	8/9/49

(WEN) R.H. 1 G-3422 N.A. 46° 10' Alley" 880,8 (406.2) R. TANK (Orog.) G-3422 N.A. 46° 10' O5.501" 169.8 (1682.7) R. TANK (Orog.) G-3422 N.A. 46° 10' O5.501" 169.8 (1682.7) R. TANK (Orog.) G-3422 N.A. 46° 10' O5.501" 160" OTRICE N.A. 46° 10' 11.74" 4916.0 (1637.6) The following stations have been rebuilt since they were setablished but are provered by the propagation extinants and statisfactory for mee as outrol in the radial plot. (TOPO.) Page 38 1927 129 06' 21.58 " 4	STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	1927 - DATUM DISTANCE D OR PROJECTION LINE AN METERS ARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
## TANK (Cref. 16-4422 N.A. 46° 10' 05.501" Fage 349 1927 122° 06' 11.366" Office N.A. 46° 10' 11.174"		G-3422 Fg. 330	N.A. 1927	101			1271.7	(580,8)	
1 Office N.A. 123° 06' 11.366" 243.8 (10.3.3) 1 Office N.A. 46° 10' 11.174" 49.866 speaks 245.0 (1507.6) 1 Office N.A. 46° 10' 11.174" 49.866 speaks 49.87 1 1 1 1 1 1 1 1 1	MAYGER TANK (Oreg.)	G-3422	N.A.	101			169.8	(1682.7)	
Correction 1927 123° 004; 28:710" 1949 1924.5 1929	OI	Page 349	1927 N A	101	< /r>		27.3.8	(1043.3)	
The following stations have been rebuilt since they were established but are now considered recovered to propagative stations and satisfactory for use as of the feels polyment of the feel polyment of the feels polyment of the feels polyment of the feel polyme	DRARY), 1949	Comp.	1927	123° 04' 28,710"			594.5	(692.7)	
HT, G-3422 N.A. 46° 10' 54.90 " A polled "Clearless" 1695.1 (157.5) Firm 57 Rage 358 1927 123° 06' 21.58 " 4f * *Clearless" 462.8 (824.0) ROWT G-3422 N.A. 46° 11' 17.800" 54.90" 549.6 (1393.0) **Page 350 1927 123° 07' 22,266" 549.6 (1393.0)				The following station established but are rand satisfactory for	s have been rebuilt si ow considered recovers as as control in the	45	were raphic st	ations	
(Topo.) Page 358 1927 123° 06' 21.58" Af Crosverond" 4.62.8 (824.0) A RANGE FRONT G-3422 N.A. 46° 11' 17.800" 549.6 (1303.0) (TADEH.), Page 350 1927 123° 07' 22.266" 7.75 (809.2) (TOPO.) Page 350 1927 123° 07' 22.266" 7.75 (809.2) -3040006 MTPR AF Crosverond Af Cr	CLEVELAND LIGHT,	6-3422	N.A.	106 701 27.90 "	"buol"		1695.1	(157.5)	Farm 524
A RANGE FRONT G-3422 N.A. 46° 111 17.800" 549.6 (1303.0) (WASH.), Pege 350 1927 123° 071 22.266" 477.5 (809.2)	1949 (Topo.)			190	,		462.8	(824.0)	
Page 350 1927 123° 071 22,266"	A RANGE FRONT	The state of the s		111	6.9		549.6	(1303.0)	D 10 10 10 10 10 10 10 10 10 10 10 10 10
	1	Page 350		170			477.5	(809.2)	
						X			
DATE 8/9/43	1 FT.=.3048006 METER	chter	A.C.	8/9/49	CHECKED BY. J. C	C. Lajoye		67/6/8	м-2388-12

MAP T- 9256			PROJECT NO. Ph. 50(49)	SCALE OF MAP115	1:5,000	SCALE FACTOR	FOR Nane
STATION	SOURCE OF INFORMATION (INDEX)		LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN WETERS FORWARD (BACK)	FACTOR DISTANCE IE FROM GRID OR PROJECTION LINE IN WETERS FORWARD (BACK)
	,		The following station	was recovered but not	identifi	pe	
	,	\$*	for use in the radial	plot.			
TUNNET (USE)	G-3422	N.A.	46° 091 39.72 "		ļ	1226.4 (626.2)	(3
) 1936	렸		170			1150.0 (137.3)	3)
						-11	
17							
							-
						,	
		.					
							
		<u> </u>					
							P
		<u>-</u>					90
ص ا	F.1 r.od		- 10/13/79	T H Y	Laube	/01 310	10/13/49
		Y0	UAIE	1	,	:	

and the stage of the contract of the stage of the

None	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)		voc. 1949. Attached					Form 524										Pa	ge	49 L
SCALE FACTOR	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	held in	1900£. 1949 + reply 18 Wo		66.4 (1220.9)	s established		838,2 (1014.4)	339.5 (947.9)	*								b .		DATE 7/26/49
2,000	DATUM	4	Director.	7		it was	in the radial plot.	-												G. Richter
SCALE OF MAP 1:5,000	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	ied but	Letter written to The D	Mark Spirit		has been rebuilt since it was	U.													CHECKED BY:
PROJECT NO. Ph-50(49)	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	ing station	the radial plot. Lett	160	1230 031 03.097"	The following station	sfactory for use	460 091 27.147"	1230 031 15.824"	1				*						DATE 7/26/49
PROJEC	DATUM			N.A.	1927			d N.A.	es 1927											70
,	SOURCE OF INFORMATION (INDEX)			6-3422	Page 332			Converted from ISE	Coordinates											H. Elrod
MAP T. 9257	STATION			(wash.)	FISHER (USE),1936 Page	60011		FISHER ISLAND, DIKE	1 LIGHT (USE), 0											COMPUTED BY:

0			080 (8.9		100	Pag	Page 1 of 2	0
MAP T 9258		PROJEC	PROJECT NO. Ph-50 (49)	SCALE OF MAP 1:8,000	000	SCA	SCALE FACTOR	R None
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR V-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - D. DISTANCE FROM GRID OR PROJE IN WETERS FORWARD	ATUM CTION LINE (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
NAEKER USLAND REDG-3422	34-3422	N.A.	46° 081 49.30 "			1522.2	(330.4)	
r 1936	Page 359	1927	1230 021 45.44 "			975.2	(312.5)	
	,948 G-3422		46° 07' 56.538"			1745.7	(106.9)	
(Ore.) 1936	Page 318		1230 021 29,346"			630.0	(658.0)	
			0	was recovered but not	identifi	ed		
			for use in the radial	plot.				
BROWN (USE)	G-3422	=	460 071 57.31 "			1584.2	(268.4)	
(Ore.) 1935 (1944)	Page 332		100			567.6	(720,4)	
			ollowing stati	, which were establish	ed by th		Engineers, a	are
			considered to be of re	coverable topographic	station	accuracy	and satisf	satisfactory
			for use in the radial	plot.				
JW (USE), 1949	Converted from ISE	=	18,86 "			582,3	(1270.3)	Form 524
	Coordinates		1230 00 51.53 "			1706.4	(181.9)	
TOWER 2 (USE),	=	=	46° 08' 30.847"	Landmark (210Ft)		949.5	(903.0)	и
1949 (Topo.)		1	1230 001 50,707"			1088.3	(199.5)	
TOWER 3 (USE),	=	=	46° 081 06.508"			201.0	(1651.6)	
1949 (Topo.)	(4)		1230 01' 11.555"			278.0	(1039.9)	1
TOWER 4 (USE),	=	=	46 071 44.593"	3		1376.9.	(475.7)	~ *
	00		1 10			652.3	(635.8)	
TOWER 5 (USE), t	=	ш	46° 07' 29.375"	1		0.706	(945.6)	u ·
			110			933.1	(355.1)	
			19 (19)					
			2624 (1957) 3					
1 FT. = .3048006 METER COMPUTED BY. J. C. Lajoye	Lajoye	AQ	DATE 7/26/49	CHECKED BY. G. R.	Richter		DATE 7/26/49	M.2388.12
	A CONTRACTOR OF THE PARTY OF TH	一日 一日 日本						

Page 2 of 2 O.	M FACTOR DISTANCE ILINE FROM GRID OR PROJECTION LINE IN METERS CK) FORWARD (BACK)	blished satisfactory		616.3) Farm 524	(7)	835.1)								Pag	M - 2388-12	7/26/49
	N.A. JM FROM GF	they were established stations and satisfa		3	2	559.2 (1293. 452.2 (835.	*									DATE
	DISTANCE FROM GRID IN FEET. DATUM OR PROJECTION LINE IN METERS CORRECTION (BACK)	have been rebuilt since recoverable topographic	the radial plot.		1	25 HONN 3 1951										CHECKED BY. G. Richter
	DATUM LATITUDE OR *-COORDINATE LONGITUDE OR *-COORDINATE COORDINATE COORDINATE	The following stations but are now considered	control in	70.081 40.04	1230 01: 44.37	123° 00' 21.07 "										DATE 7/26/49
	SOURCE OF DATUM	*		Converted N.A.	dinates	your ch =										1
	STATION			POINT LIGHT	R. H	RANGE FRONT LIGHT									1 ET - 40Apone arres	COMPUTED BY. John C. Lajoye

			4	R						
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE	OR y-CO	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM		N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN WETERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
BLAST (USE)	G-3422	N.A.	977	7 . 40	41.163"			1270.9	(581.7)	
(WASH.), 1936	Page 331	1927	1220	591 1	14.128"			303.3	(984.8)	
HAUESER TUBER CO.	G-3422		977	07: 2	21.070"	Weyerhaeuser Lamb		650.6	(1202.0)	
-	Page 353	1	1220	581 1	14.786"			317.5	(970.8)	
HAVESTEW LUMBER CO.	G-3422	=		071 5	50.689"	Weyerhaguser Ldmh		1565.1	(287.5)	
PARSH PST 1937	Page 353	¢	1220	581 4	40.630"			872,2	(415.9)	
LONGVIEW COMMUNITY	G-3422	=		081 0	03.74 #			115.5	(1737.1)	
	Page 360			561 5	1 09.99			1215.0	((73.0)	
			03	owing	ation	111	by the U	co.	rs	
			and sati	satisfacto	tory for u	recoverable topographise in the radial plot.	ile stati	on accuracy	cy	
ALUMINUM TANK	Converted	g ==			374"	ndmark (C. Let. 85		563.0	(1289.6)	Form 524
USE, 1949 (Topo.) Coordinates	ordinate	to.		591	58.233"			125010	(37.9)	ė
			The followin	60	stations	22	140	were		
			established stations and	7	but are no	but are now considered recoverable satisfactory for use as control in	5	topographic	ot.	
SLAN	=	=	977		38,63 "	(25)		1192.7	(659.9)	11
S LIGHT USE, 1949		p. 359	1220	591 5	55.14 "			1183.8	(104.3)	
LIGHT USE, 1949	=			071 0	" 47.00			22.9	(1829.7)	, u
(Topo.)	-	25-9	1220	591 1	13.74 "			295.0	(993.4)	
LONGVIEW RANGE FRONT LIGHT USE.	=	=		071 2	27.419"			9.978	(1006.0)	H
1949 (Topo.)				581 4	41.246"			885.6	(402.6)	
			The foll	owing	The following station	was recovered but not	identified	ed for		
	4		use in the r	he rad	adial plot					
HARUSER LUMBER CO	G-3422	=	097	071	28.834"	I don't their stack,		890.3	(962.2)	
(WASH.), 19%	Page 353	7	1220	581	34.582"	vestad petters.		712.5	(57.5.7)	
TFT.=.3048006 METER TO H. COMPUTED BY.	. Elrod	70	DATE 7/	7/27/19		CHECKED BY. G. Richter	ichter		DATE 7/2	7/27/49 M.2388-12 N

LCNGVIEW BRIDGE NORTHEAST LIGHT (WashOre.)1934 Page 360 1927 LONGVIEW BRIDGE SOUTHWEST LIGHT (WASHORE.) 1934 Page 359 WILLIANS (ORE.) G-3422 1934 G-3422 LONGVIEW BRIDGE G-3422 "ILGHT (USE.) 1949 Page 311 SLAUGHTER'S DIKE (Topo.) Goordinates 18 SLAUGHTER'S DIKE 2, LIGHT (USE.) 1949 (Topo.) 1949 (Topo.)	Source of (INDEX) OGE GHT G-34.22 1934 Page 360 OGE G-34.22 1934 Page 351 E.) G-34.22 DIKE Converted 1949 OIKE OIKE E.) Coordinate OIKE E.)	M.A. 1927	DATUM LATITUDE OR **-COORDINATE DISTANCE FROM GRID IN FEET. DE LATITUDE OR **-COORDINATE FORWARD (BACK) N.A. 46° 06' 22.359" 1927 122° 57' 33.716" 122° 57' 42.864" 123° 01' 33.816" The following stations have been rebuilt since established but are now considered recoverable stations and satisfactory for use as control in 46° 06' 34.625" 122° 58' 36.420" 122° 58' 53.85" 122° 58' 53.85"	COORDINATE DISTANCE FROM GRID IN FEET. D COORDINATE OR PROJECTION LINE IN WETERS COI 22.359" 22.359" 42.864" 24.423" 33.816" Stations have been rebuilt since but are now considered recoverable satisfactory for use as control is 34.625" 36.420" 46.47 " 53.85 "		N.A. 1927 - DATUM RECTION RECTION RECTION RECTION RECTION RECTION IN WETERS 724.2 (564 381.8 (1470 920.6 (368 724.1 (1098 726.3 (562 they were topographic the radial plot. 1069.1 (783 782.2 (506 1434.8 (417 1156.4 (132	, तद्वन्त विविद्य	FACTOR DISTANCE IN METERS FORWARD (BACK) FORWARD (BACK)
I FT.=.3048006 METER COMPUTED BYJ. G.	C. Lajoye		DATE 7/28/49	CHECKED BY. G. Richter	Ichter		DATE 7/28/49	27 21-886-18 60 7/4/9

0	None	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)							-												ě	Po	92	10/12/49 N-2388-12 N
Page 2 of 2	SCALE FACTOR	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	4	1195.6 (93.2)	1802.5 (50.0)	834.1 (454.7)	328.3 (1524.2)	281,2 (1007.5)	697.9 (1154.6)	1124,8 (164,3)	(0.1441.0)	575.1 (714.0)	668.2 (1184.3)		839.5 (1013.0)	748.1 (540.5)	717.9 (1134.6)	143.7 (1144.9)						DATE 10/1
	:5,000	DATUM																		•				L. Laube
0	SCALE OF MAP. 1:5,000	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)		on dike		on dike									Landmark									CHECKED BY. H.
	PROJECT NO. Ph-50(49)	LATITUDE OR "-COORDINATE -CONGITUDE OR x-COORDINATE	051	1220 551 55.665"	46° 051 58,378"	1220 551 38.834"	190	1220 55' 13,091"	051	1220 551 52,355"	46° 05' 13,327	1220 551 26.769"	051	551	46° 061 27.188"	122° 55' 34.834"	46° 06' 23.251	1220 571 06.691"						DATE 10/12/49
		DATUM	N.A.	5 1927	-		=	2	.=	7	=	7		5	=	4	=	3						0
		SOURCE OF INFORMATION (INDEX)	G-3719	Page 376	-		·G-3422	Page 352	G-6331	Page 77	6-3719	Page 374	6-6331	Page 775	TG-3422	Page 354	G-3422	Page 353						Elrod
Ó	MAP T- 9261	STATION	1926	EMI (USE) (WASH.)	BELL (USE) 1/1179	(mag.) 1926	LONGVIEW FIBRE CO.G-3422	1934	(USE)(Ored)	RAINIER 2, 1912	INI	(OREG.) 1937	RAINIER MINERAL SOAP PACTORY	(OREG.) 1913	LUNGVIEW LONG-BELL	EAST TANK (MASH.)	AND ELEVATOR CO.	FLAGSTAFF (WASH.)						1 FT.=.3048006 METER COMPUTED BY:

	\ None	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)					Carroll Channel	Light 2 in 1952 high high			Form 524												Pa	98	M.2388.12
	SCALE FACTOR	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	715.6 (1136.9)	382.8 (906.2)	787.3 (1065.3)	766,2 (522,3)	1123,2 (729,3)=	823.0 (465.9)	.S. Engineers	on accuracy	1698.0 (154.5)	453.9 (834.8)	fied for use		168,2 (1684,3)	582,8 (706,4)	851.0 (1001.5)	522.9 (766.1)	1631.7 (220.9)	54.9.6 (739.2)					S DATE 8/31/49
	000	DATUM							the U	s cau			not identif											4	L. Harris
0	SCALE OF MAP. 1:5,000	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)					= 36.370" 943/6720	. 38.31" - 6-8346	which was established	recoverance topographic r use in the radial plot			were recovered but no				27.562 943/6720	24.389" G-8346	5.2.8 4.3.	20:0789"					снескер ву. Јашез
	PROJECT NO. Ph-50 (49)	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	46° 05° 23,178"	53.	190	521	051	54.1	s following station	and is satisfactory for	1560 051 54.99511	541		in the radial plot.	460 051 05.446"	122° 53' 27,125"		1220 531 24,340"	46° 051 52,846" =	54.1					DATE 8/30/49
		DATUM	N.A.		=	*	943/1672	8118-0			# pe				=	•	CY3/672	8718-5	-						
		SOURCE OF INFORMATION (INDEX)	6-3719	Page 378	G-3752	Page 32	Field	ELD Comp.	18		Converted	Coordinates	, ji		G-3719	Page 376		HODGSON	1						Lajoye
0	MAP T- 9262	STATION	A.OG RAFT DOLPHIN	(WASH.) 1937		(WASH.), 1873	断照明	LIGHT JIKE EAST ENT				1979 (Tono.) Co			ISLAND (USE) R.M.	(WASH.), 1937	1	RAFT, 1949		SNAG, 1949					COMPUTED BY. J. C. LEJOYE

D	None.	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)					orn 526 or AF remite 1981	W Carroll Channel							Page	M. 2388-12
Page 1 of 2	SCALE FACTOR	27 - DATUM TANCE PROJECTION LINE METERS (BACK)	0 (659.6)	130	77)	acy	7 (838.9) E	(1220.8)	1		3	3 (253.2) 6 (262.9)	0 (532.6)	7)	8 (281.8)	DATE 8/26/49
ŭ		DATUM FROM GRID OF IN FORWARD	11.93.0	359.9	377.4	the U.S. Engineers	1013,7	631.7 631.7 5.32.4 528.2	1806.2 1806.2 1201.4	identified	331.9	1036.3	757.0	860.3	1570	Richter
	E OF MAP 1:5,000	OM GRID IN FEET. ON LINE IN METERS (BACK)	in 443/6720	2		were established by the recoverable topograph		17.52 27.611	V6-03-58.5-01	recovered but not						CHECKED BY. G. R.
	(49) SCALE		38.637" = 38.636"	11.656" = 4.655" 57.910" = 57.908	12,222"	of reco		20.460" % °3	PA Fra	ns were		51.484"	35.222"	40.041#	50.874#	
	PROJECT NO. Ph-50(49)	LATITUDE OR V-COORDINATE LONGITUDE OR x-COORDINATE	1220 521 3	1700	531	lowing sidered	THE RESERVE AND PARTY.	125 521	125° 521	lowing in the		53.	531	54.	220 031 5	DATE 8/25/49
	PROJE	SOURCE OF DATUM (INDEX)	Field " " " " " " " " " " " " " " " " " " "		G-3719 "		Converted "from USE Coordinates	H H 1037	08 8 J		G-3719 "	Page 380	Раде 374 п		G-6331 " Page 769	
, '	MAP T- 9263	STATION ST	GAR, 1949	E C C C C C C C C C C C C C C C C C C C	PRESCOTT, CLARK & GALLSON LUMBER CO. TANK (ORES) 1937 P.		COTTONWOOD ISLAND G. PRONT RANGE LIGHT F.	CARROLLS DIKE LIGHT	강된다		D TANK	GALLOWAY 2 G	(OREG.), 1937 P.	(OREG.) 1937	D-5 (USE) (OREG.) G	COMPUTED BY. J. C. Lajoye

0	None	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)																Po	ge	M - 2388 - 12%
Fage 2 of 2	SCALE FACTOR	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE FROM IN METERS FORWARD (BACK) F(558.2 (1294.3) 378.8 (911.0)	641.1 (1211.4)	762.0 (527.8)	1306.8 (545.8)	437.3 (852.0)			*										DATE 8/26/49
	5,000	DATUM FR CORRECTION									-									chter
0	SCALE OF MAP 1:5,000.	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)				42.333' 943/6720	20.349" 6-8346													CHECKED BY. G. Richter
	PROJECT NO. Ph-50 (49)	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	1220 521 17,6234	188	521	041 42,323# -	521 20,351# -								*			1		DATE 8/25/49
	PROJEC		N.A. 1927	=	- 1	943 JETZ	8223-5													. DA
	9-24 M	SOURCE OF INFORMATION (INDEX)	G-3719 Page 381	G-3719	Page 374		Comp.								*					C. Lajoye
O	MAP T- 9263		DIKE DOLPHIN,		DOL (WASH.), 1937	119	POLE, 1949	To Not the	June 2 Same											COMPUTED BY.

SCALE FACTOR None	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS IN METERS FORWARD (BACK)	(0,466)	(5/1.1)	(1,769.0)	(276.3)	(1780.7)	(688.7)	Company of the compan		(204.5)	(1220.0)	(1406.5)		(1,331,5)	(181.5)	(1804.4)	(25.0)	3	(1205.4)			
	N.A. 19 DATUM FROM GRID OF CORRECTION FORWARD	1158.5	748.9	83.5	1014.0	71.8	602,1	identified for		1648.0	70.0	0.977	634.1	521.0	1108.7	48.1	1265.7	1664.5	84.6			
SCALE OF MAP 1:2,000	DISTANCE FROM GRID IN FEET. DOR PROJECTION LINE IN METERS COFFORWARD (BACK)							were recovered by not i			, °							The state of the s				
PROJECT NO. 14-201427	LATITUDE OR #-COORDINATE LONGITUDE OR *-COORDINATE	46 031 37,521"	1220 511 34.833"	021	521	01.1	521	11 omin	use in the radial plot	26° 02° 53,378"	531 03.	26° 01° 12,222"	51, 29.	46° 02' 16;874"	521	46° 01' 01.558"	122° 51' 58.839"	46° 02' 53.910"	1220 531 03,936"	-		
PROJEC	DATUM	N.A.	1927	=	ť	#	,			=	ı	=	,	=	1	=		=	•	!		
.	SOURCE OF INFORMATION (INDEX)	0-3719	Page 375	G-371		G-3719	Page 375			G-6331		6-3719	Page 382	6-3719	Page 377	9175-0(3	Page 382	G-3719	Page 374			•
MAP I-	STATION	DRAYS MOUND	(WASH.). 1878		(OREG.) 1912	GOBLE POINT 2	(OREG.) 1937 I			D-3 (USE) (OREG.)		KALAMA. AIRWAY	934	D-1 (USE) (OREG.) G-3719	1912	GOBLE DOLPHIN (USB)G-3719	(WASH.), 1937	D-3 (USE) Aux.	(OREG.) 1937			

0	OR None	FACTOR DISTANCE E FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	(9)	2)	83	7)	2)	7)	(6)	77	(9)	(9	0)			9) Form 524.	2)	1) "	1)	, " (9	(7)	. " (9	(9)	Pa		9/1/49 M.2388-12N
Page 1 of 2	LE FACTOR	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	(251.6)	(1284.2)	(1197.8	(831.	(.764.2	(1552.7	(856.9	(1126.4	(516.6	9.776)	(929.0	10		(191.9)	(494.2)	(1295.1	(196.1	(9.706)	(1149.4		(219.6)	(100 E	,	9/
Pag	SCALE	N.A. 192. DIST. FROM GRID OR FIN MI	1600.9	568.3	93.6	1021.1	526.7	299.8	434.1	726.1	774.4	6.706	361.9	Engineers	TOU	1660,6	797.0	557.4	1095.2	6.446	141.9	1561.8	1072,1	1779 0	538.6	
	000	DATUM													raphic station			(138.0)	(1001:0)	(surk	(100.0)					L. Harris
	SCALE OF MAP 1:5,000	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)		943/6720	6-8346								4	were establis	ory for use in the			(16072)	(52.87 8)	(30.131)	(625.30)	East of eastern limit of	on 7-9511 (1:10,060)	1156 To De 11	same Gp,	CHECKED BY
	Ph-50(49)	COORDINATE	51.851"	18.406"	04.347"	33.073#	24.480"	1111100	20,175"	23.518"	35.991"	29.310"		ng stations	red to be distact		37.037"	18.053"				451				0
		LATITUDE OR y-COORDINATE	100 097			100 097	1220 521	100 097	1220 51'	100 097	1220 501			fol1	and consider	450 591	122° 501	450 491	1220 501	-	1					100
	PROJECT NO	DATUM LOI		17261	p.345.			н	ť	=	1	=	•	The	ac	=		=	4 pe . 9		CP6.9			=	,	DATE
		SOURCE OF INFORMATION (INDEX)	G-4453	rage 590 urnished	HODGSON		Page 768	6-3719	Page 376	G-3422	1934Page 321	\$0_11.53	Page 397			Converted	From USE			=		= (2	1	=	•	, Lajoye
0	MAP T. 9265	NOL		(USE) (WASH.) 1937	N		1912	(王)	1.), 1937		ELLIS (WASH.) 1934	KALAMA, HIGH SCHOOL	FLAGSTATE (MASH) Page 39	CAT		AHLE FOINT LIGHT, Converted	10/0 (mm)	l gg		1	1	HOPPIEN LICHT (TER.)		HUNTER BAR UPPER	1949 (Topo.)	1 FT. = 3048006 METER COMPUTED BY.

0	None	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	Form 524																			Pa	ge	M.2388.12 %
Page 2 of 2	SCALE FACTOR	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK) FC	606.9 (1245.6)	763.5 (527.4)	ed	•	1580.6 (271.8)	655.4 (635.7)	1167.7 (684.8)	717.1 (573.8)	815.4 (1037.1)	605.0 (685.7)	1005.8 (846.7)	(878.7)	1150.7 (701.8)	709.3 (581.5)		**						DATE9/11/49
	5,000	DATUM FF			ot identif.																			Harris
	SCALE OF MAP 1:5,000	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)			were recovered but not identified	plot.																		CHECKED BY: J. Life
	PROJECT NO. Ph-50 (49)	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	46° 001 19,657"	501	llowin	for use in the radial	45° 59' 51.195"	122° 50' 30.458"	100	122° 50' 33.33 "	460 001 26.41 "	122° 50' 28,12 "	460 001 32,577"	501	46° 00' 37.27 "	1220 501 32.97 "	•							DATE 8/28/49
	PROJEC	DATUM	ed _{N.A.}	3 1927			=	*		10	н		=		П									70
		SOURCE OF INFORMATION (INDEX)	Converted	Coordinates 1927			G-3719	Page 375	G-6331	Page 778		Page 729	G-6331	Page 778	G-6277	Page 729								C. Lajoye
Ö	MAP T- 9265	STATION	E	1979 (Topo.) Co			H-23, (USE)	(WASH.), 1912		STAR (WASH.), 1913	KALAMA, METHODIST	(WASH.) 1873	SATHOLIC), 1913	PAL	unuss								COMPUTED BY. J. C.

COMPILATION REPORT Map Manuscripts T-9254 to T-9265 Inclusive Project Ph-50(49)

These map manuscripts, showing shoreline surveys of a portion of the Columbia River, have practically identical characteristics and their compilation may be adequately described in a combined report for all twelve sheets.

31: DELINEATION:

Compilation was by graphic methods. The field inspection for the area was satisfactory and the photograph coverage was adequate.

Except in cases where it was deemed necessary to accentuate the shoreline, planimetric details inshore from the high-water line have not been shown.

There were places along the high-water lines where minor detail points could not be selected because of shadows on the photographs. This slight difficulty was not considered serious because of the excellent scale of the photographs and because it was not necessary to consider relief displacement. The high-water line could be delineated, in these areas obscured by shadows, with the aid of the stereoscope.

32: CONTROL:

The horizontal control stations were well identified and were of sufficient density to adequately control the photographs. For additional data refer to side heading 23, "Adequacy of Control", Photogrammetric Plot Report, for these map manuscripts.

33: SUPPLEMENTAL DATA:

Enlargements at a scale of 1:5,000 printed on clear acetate of the 1938 topographic surveys scale: 1:10,000 were furnished this office as follows:

T-6567a (7-9257) 792581
T-6568a 759258 & 74262)
T-6568b (7-9262 & 7-9265)
T-6569b

Because of the drastic changes in shoreline and other details in this area these surveys were of little use for the compilation work. A print furnished by the Portland District of U.S. Engineers showing water profiles Columbia River, Mouth to Bonneville, Scales: Hor. 1" = 4 miles, Vert. 1" = 4 feet, was used for computing the high-water line of this area.

34: CONTOURS AND DRAINAGE:

Inapplicable.

35: SHORELINE AND ALONGSHORE DETAILS:

The mean high-water line is on a gradient at the plane of 5.0 feet above mean lowest low water (Columbia River Datum) and was adequately located by the field party in July and August 1949 on single lens photographs taken when the river was at a low-water stage after the 1948 Columbia River Flood. The gradient of the water plane is from 4.85 ft. above M.S.L. at a point 1.6 miles south of Kalama, Washington to 3.45 ft. above M.S.L. at Oak Point, Washington. The data on the Columbia River Datum was furnished by the Corps of U.S. Engineers, Portland District and the above water plane above M.S.L. is based on -0.15 ft. M.S.L. @ 1.6 miles south of Kalama, Washington and -1.55 ft. M.S.L. at Oak Point, Washington (Columbia River Datum). It is suggested that the high-water line for surveys in the Columbia River, downstream from Oak Point, Washington, be based on the mean high-water line at the outer end of jetties at the mouth of the Columbia River which is ½ 7.4 ft. above M.L.L.W. or ½ 3.2 ft. above M.S.L. When this mean high-water line is extended upstream in the Columbia River it converges with the high-water plane of these map manuscripts at about the west limits of T-9254 or at about Oak Point, Washington. See attached sketch.

Areas that bare during low-water stages and approximate shoal areas were delineated for the most party by office examination of the photographs.

Alongshore details were excellently delineated by the field inspection party.

36: OFFSHORE DETAILS:

Since the hydrographic work was done prior to the final compilation of the shoreline surveys it is assumed that any offshore feature not delineated by field inspection or which cannot be easily seem on the photographs has been located by the Ship "HODGSON".

37: LANDMARKS AND AIDS:

The Ship "HODGSON" has been furnished Forms 524 for all aids to navigation, in the area, for which geographic positions of at least

3rd order accuracy are not available. It is understood, by this office, that Forms 567, "Landmarks and Aids to Navigation" will be executed and submitted by the Ship "HODGSON" for this area.

executed and submitted by the Ship "HODGSON" for this area.

Chart Letter No 983(1950)

"678(1950) Longriew - St. Helens

7 fms 567 in D.R for H-7748 Crims 2d - Longview = C.Let. 859(49)

38: CONTROL FOR FUTURE SURVEYS:

For facts relative to former triangulation stations which are now classified as Recoverable Topographic Stations refer to the Photogrammetric Plot Report, Item 23: "Adequacy of Control".

Sixty-two Forms 524 have been submitted to the Ship "HODGSON". 23 objects
A list of these stations is attached to this descriptive report.

Ninety-one photo-hydro stations were radially plotted and submitted to the Ship "HODGSON". A list giving the station numbers and descriptions according to map manuscripts is attached to this descriptive post.

39: JUNCTIONS:

Satisfactory junctions have been made between all map manuscripts covered by this descriptive report.

40: HORIZONTAL AND VERTICAL ACCURACY:

There are no subnormal areas of horizontal accuracy. Vertical accuracy is not applicable.

46: COMPARISON WITH EXISTING MAPS:

A visual comparison was made with the 15 min. topographic quadrangles St. Helens, Oregon-Washington, Kalama, Washington-Oregon, Clatskanie, Washington-Oregon, Scale: 1:62,500 Published 1943. In general the shorelines along the bluffs are in good agreement. The quadrangles appear to be at a higher water plane and therefore do not show the offshore features as detailed as the map manuscripts.

Comparison was made with enlargements printed on clear acetate Scale: 1:5,000 of the 1938 topographic surveys. T-6567a and b, T-6568a and b, and T-6569a and b, original scale, 1:10,000.

There are numerous and drastic changes in the shorelines of the Columbia River since this survey was made. The most important are:

T-9254 The north shorelines of Gull Island and Crims Island have built up. Also new islands which did not exist in 1938 are evident in this vicinity.

There are numerous changes in the shorelines of Bradbury Slough.

T-9255 The shoreline and along shore details at Layger have changed considerably since 1938. The north shore of the Columbia River between Cleaveland Light and the downstream end of Fisher Island has changed.

T-9256 Numerous minor changes in the shorelines.

T-9257 The downstream end of Walker Island has built up.

Additional islands are now existing off the upstream end of Fisher Island.

The shoreline has eroded in some places and built up in other places along the northeast shore of the Columbia River between Lat. 46° 09' and 46° 09' 40".

Numerous changes along the northeast shoreline of Fisher Island.

T-9258 Drastic changes in a group of islands upstream from Walker Island.

The upstream end of Walker Island has built up.

Numerous minor changes in shoreline throughout map menuscript.

T-9259 Changes in the northeast shoreline of the Columbia River from Mt. Coffin downstream to Dike 49.4.

T-9260 Drastic changes in the southwest shoreline of the Columbia River from Longview Bridge to Dike 48.3.

T-9261 Changes in alongshore details on north shore Columbia just upstream from Longview Bridge.

Upstream end of island on which Dike 44.6 is located is changed considerably.

Changes in the shoreline Columbia River between Long. 122° 55' and Long. 122° 57'.

T-9263 Drastic changes in shapes of islands in vicinity of Dike 44.2.

Numerous changes in the shorelines of Cottonwood Island.

T-9264 Drastic changes in shoreline vicinity of Dike 42.2. Changes in the north end of Sandy Island.

T-9265 Changes in the shoreline of Sandy Island. Numerous changes in southwest shoreline of Columbia River upstream from Dike 36.5 to end of project. Changes in northeast shoreline Columbia River between Lat. 45° 59' and Lat. 45° 59' 40".

47: COMPARISON WITH NAUTICAL CHARTS:

Since the source of the shorelines shown on nautical chart 6153, Scale 1:40,000 appears to be from the 1938 topographic survey, the same differences as mentioned in paragraph 46 are applicable.

48: GEOGRAPHIC NAMES:

There was no geographic names inspection furnished this office for the area. Names shown on the map manuscripts were obtained from nautical charts and topographic quadrangles of this area. None requested

49: NOTES TO THE HYDROGRAPHER:

There were many conferences between the officers of the Ship "HODGSON" and the Chief of Party and personnel of this office. All phases of the work were completely discussed and all information needed for the hydrographic work has been furnished to the Ship "HODGSON". The map manuscripts have been forwarded to the Seattle Processing Office for use in processing the hydrographic survey.

A tabulation of recoverable topographic stations and photo-hydro stations is attached for the purposes of a permanent record.

Approved:

Chief of Party

Respectfully submitted:

J. Edward Deal Ja J. Edward Deal, Jr.

Cartographer

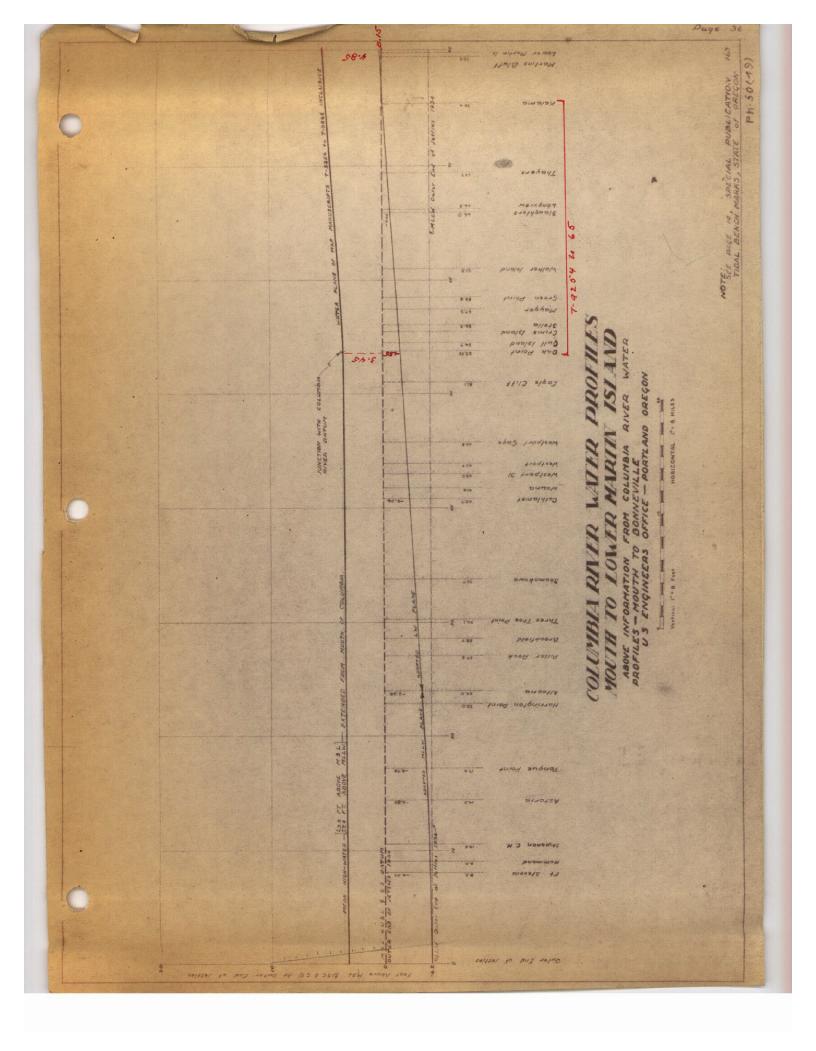
All manuscripte inspectal by 1/8 1/50

50:

PHOTOGRAMMETRIC OFFICE REVIEW

T-9254 - T-9265

1. Projection and grids2. Title3. Manuscript numbers4. Manuscript size4.
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 stations8. Bench marks
9. Plotting of sextant fixes 10. Photogrammetric plot report 11. Detail points
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline13. 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. Ree N. Barron J. Edward Deal Ja
40. Reviewer A. Edward Deal Ja Supervisor, Review Section or Unit Supervisor, Review Section or Unit Reviewer
41. Remarks (see attached sheet)
41. Reliants (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
43. Remarks: M-2661-12



List of Recoverable Topographic Stations for which Forms 524 have been furnished the Ship "HODGSON" in the areas of T-9254 to T-9265 inclusive.

T-9254 TANK ELEVATED, 1949 TANK ELEVATED AND UPSTREAM, 1949 - BUNKER HILL LIGHT, 1949 ~ T-9255 - STELLA RANGE FRONT LIGHT, 1949 - CLEAVELAND LIGHT, 1949 BIL, 1949 - Hy Sta 5615 X WASP, 1949 - Hy Sta 5621 BIL, 1949 - Hy Sta 5702 NEW, 1949 : Hy Sta. 5 704 TED, 1949 : Hy Sta 5709 T-9256 NONE T-9257 - FISHER ISLAND DIKE 1 LIGHT, 1949 FISHER ISLAND LIGHT, 1949 Marker . RED REFLECTOR, 1949 END, 1949 = Hy Sta 5602 T-9258 J.W. (USE), 1949 TOWER #2, 1949 TOWER #3, 1949 TOWER #4, 1949 TOWER #5, 1949 - WALKER ISLAND SOUTHEAST LIGHT, 1949 - BARLOW POINT LIGHT, 1949 SLAUGHTERS LOWER RANGE REAR LIGHT, 1949 - SLAUGHTERS LOWER RANGE FRONT LIGHT, 1949 /OUT, 1949 = Hy 5ta 4907 B /SIR, 1949 = " 4911 NUT, 1949 =

/KER, 1949 / RED, 1949 = "

```
T-9259
                 - MOUNT COFFIN LIGHT, 1949
               . LONGVIEW RANGE REAR LIGHT, 1949
                . LONGVIEW RANGE FRONT LIGHT, 1949
                - ALUMINUM TANK, 1949
                /- WALKER ISLAND DIKE 8 LIGHT, 1949
                - DIBBLEE DIKE LIGHT, 1949
                 NOT, 1949 : Hy 52e
                 / TAN, 1949
         T-9260
                 DIKE, 1949 - Hy Sta 4902
                 . LONGVIEW BRIDGE FOG SIGNAL SIREN, 1949
                · LONGVIEW BRIDGE CHANNEL LIGHT, 1949
                 - SLAUGHTERS DIKE LIGHT, 1949
                 - SLAUGHTERS DIKE 2 LIGHT, 1949
                 . LONGVIEW BRIDGE FOG SIGNAL GONG, 1949
         T-9261
                □ LONGVIEW, LONG-BELL LUMBER CO. (Center Tank), 1949
                 - DOBELBOWER LIGHT, 1949
         T-9262
               COWLITZ RIVER ENTRANCE 2, LIGHT, 1949
         T-9263
                 - COTTONWOOD ISLAND UPPER RANGE REAR LIGHT, 1949
                 · PHIN, 1949
                 - COTTONWOOD ISLAND UPPER DIKE LIGHT, 1949
                 COTTONWOOD ISLAND LOWER RANGE REAR LIGHT, 1949
                 ~ CARROLLS DIKE LIGHT, 1949
                 COTTONWOOD ISLAND UPPER RANGE FRONT LIGHT, 1949 Common
                 COTTONWOOD ISLAND LOWER RANGE FRONT LIGHT, 1949) Structure
         T-9264
                COFFIN ROCK LIGHT, 1949
                - KALAMA RIVER LIGHT, 1949
         T-9265
                 KALAMA LOWER RANGE REAR LIGHT, 1949
                 MOFFMAN LIGHT, 1949
                 HUNTER BAR DIKE 4 LIGHT, 1949
30 Lls, (former A)
                - HUNTER BAR DIKE DAYBEACON, 2, 1949
  6 other aids
                 - KALAMA LOWER RANGE FRONT LIGHT, 1949
  3 Lts (USE)
                HUNTER BAR DIKE 1 LIGHT, 1949
 39 Aids
                D HUNTER BAR UPPER DIKE LIGHT, 1949
   tanh (USE) - AHLE POINT LIGHT, 1949
    tank (former A) - KALAMA PORT DOCK LIGHT, 1949
                  Sandy Island Dolphin, 1949
+ 21 other objects
```

Twenty-four forms 524 were originally filed under T-sheet numbers but have been transferred to H-sheet numbers because they appeared as topographic stations on H-sheets only.

Stations	Filed Under	Transferred To
KEN (USE, 1941) 1949 POINT (USE, 1926) "	T-9258	H - 7746
CAN	T-9261	н-7744
WIP	11	n,
WAY	ff	ti .
BEL "	tt	u
IRON "	Ħ	π
IRE "	tt .	ម
MET "	11	H-7745(Ld Mk Stack)
SAW	ū	π
PIE "	11	H-77կկ
BUR "	tt	H-7892
WIT	11	H-7745
LUMBER "	Ħ	्र स
PIN (Dike 42.4 Outer Dol) 1949	T - 9263	H-7892
DOBEL 1949	11	n
Carrols Dike Lt(USE) 1949	, a	Ħ,
END	tt	Ħ į
KAL (Kalama River Lt.) "	T-9264	tt
POL n	Ħ	11
TAL	Ħ	12
SIGN	11	tr
MIL (Stack)	n	
DOL (Dike 36.3 Dol N.E. End) 1949	T-9265	H-7742



List of Photo Hydrographic Stations in the area of T-9254 to T-9260 inclusive.

	77	The advan	D
	Number	Photo.	<u>Description</u>
T-9254	√5702B ·	4254	Tall pile roughly on line with cabin gable (Doubtful).
	5704A	4255	Upstream gable, white house.
	5704B	4254	Downstream gable on barn.
	√5706A ·	4255	Dolphin, white flag (also Sub.
			Pt. for SCOTT R.M. #1).
	5706B	4252	Dolphin inshore of 3.
	√5708A ·	4255	Dolphin #3.
	5708B ·	4252	Dolphin, inshore of 3.
	5710A .	4375	Red flag on dolphin #4.
	5710B ·	4252	Dolphin, inshore of 2.
	>5711 .	4253	Whitewashed boards on dolphin stub.
	5712	4255	Downstream gable, barn.
	5712A ·	4388	Dolphin #5.
	5712B ·	4252	Whitewash on dolphin offshore of 2.*
	.5713	4253	White flag on 3 piling nailed
			together.
	5714 .	4255	Downstream corner, loading chute. (Doubtful).
	5714A ·	4388	Dolphin offshore from #6.
	5716	4255	Downstream gable, grey boat house.
	√5716A	4388	Dolphin #7, whitewashed.
	√5718 ·	4375	Downstream gable of tin roofed
			fish house. (Note: unpainted
			strip of tin on end of house.)
	5720 - 20	4388	Cannery river gable.
T-9255	5603A	4292	Yellow flag on inshore dolphin.
	5604A	4292	White wrap on pile inshore of 2
			leaning dolphins.
	-5605A	4292	Dolphin #5, white wrap.
	5610	4291	White banner on stub of dolphin.
	5613	4292	Downstream gable large shed on
	1000	1000	piling.
	5615	4292	Downstream gable, tin roofed barn.
	-561.5X	4292	Silo at upstream end of tin roofed barn. 7000. 5/4
	5617	4292	Large barn, upstream gable.
	5619	4292	Downstream gable, white house.
	5621	4292	River gable on tan house. Topo WASP

* FI Photo 4252 says "destroyed". The inshare dolphin is used on T-9510 as "309"

T-9	9255	(continued) <u>Number</u>	ghoto.	Description
		5701 5702 5702A 5703 5704	4293 4257 4255 4294 4257	White banner on trunk large tree. River gable, cannery. Topo Bil Dolphin #1, whitewashed. Upstream river corner of old structure. Downstream NW corner, false front yellow house. Topo Yew
		5705 · 5706 · 5707 9 ·	4295 4257 4295	White flag on river end of dike ruins. Downstream gable, shed. River gable on downstream, yellow
		<u> 5709 7</u> · 19	4296	Dolphin at upstream end of line of piling.
T-9	9256	J5608 ·	4291	White and black flag over white wrap on center of highest pile.
		5708	4256	Flag on inshore of 4 old broken piling.
		5710	4255	Downstream gable, barn.
T-9	9257	4913	4263	White banner on tripod located by sextant fix.
		√5601 ·	4290	Sign "5 miles per hour speed limit" on pile.
		,5601A ·	4291	Black flag on inshore one of 2 dolphin stubs.
		5602 · 5602A ·	4290 4291	Red white red wrap on new dolphin. Topo End Black and yellow flag on dolphin stub.
		5603 5604	4291 4290 -	Cupola on large barn. Red flag over white wrap on highest pile of inshore dolphin.
		-5605 ·	4291	White banner on piling beside corner of float - HO.
		5606 ·	4291 4291	Red flag on dolphin (Hydro "FOG U.S.E."). River Gable, shed, inshore and up-
				stream from large white boat-house.
		5609 7· 5611 · /	4291 4291	Downstream gable large barn. River gable, white house.
T-9	9258	4901B	4266	Signal is white flag over white wrap on tripod (Position computed).
		14902A	4267	S.E. corner of old structure white crossed banners.
		√4,903B	4265	White flag over white wrap on dolphin. (Located graphically by angle and distance.)

T-9258 (continued)

	Number	Photo.	Description
Sishere Walker	4.90/A	4264	Dolphin #1, white flag.
3,3,,,,	4905B	4264	White crossed banners, located by
	4,0,0	4204	sextant fix.
,, ,,	4906A	4263	Dolphin #2.
	4907B	4264	New dolphin with white wrap. Topo OUT
" "		4262	Dolphin #3.
	4909	4266	
	4909B	4264	Red flag over white banner on dolphin. Tope REL New dolphin with red white red wrap. Tope NUT
S shore, mainland	10104	4267	Dolphin #4, whitewashed.
n n Walker	4910A	4262	Dolphin #4.
N 11 maintake	4471	4265	Station is new dolphin with red
3 " "	1022	1047	wrap with white cross. Topo S/R
" " worther	4912	4267	Dolphin #5.
		4262	Outer dolphin of 3 in range.
. " marrier		4266	Dolphin #6, yellow wrap.
*	4916	4266	Dolphin "A". (Position computed,
	407.4	1011	sub-station J.W. (USE)).
	4918	4266	Dolphin "B", whitewashed.
	4920	4266	Dolphin "C".
	4922	4266	Dolphin "D", black wrap.
	4924	4265	Dolphin "F", whitewashed.
	4926	.4265	Dolphin "G", yellow wrap.
	4928	4264	Dolphin "H".
"	4930	4264	Whitewashed dolphin. R.R. Shed River Gable (rejected). Small bush on southwest corner of small point.
*		4262	R.R. Shed River Gable (rejected) - Fix for del.
U	4934	4263	Small bush on southwest corner of
	2 6		small point.
T-9259	4901A		Dolphin south end Dike 49.1.
	4903	4270	R.R. Water Tank, black, elevated. Topo TAN
	4905	4267	Yellow & white wrap on dolphin.
	4907	4267	White and red wrap on Dolphin "49.4". Not
	4		
T-9260	4900	4270	Dolphin at offshore end of first
			dike extending from southwest
			shoreline, upstream from Longview
			Bridge.
	4901	4270	Yellow wrap on upstream end dolphin
	1		offshore from large white shed.
	4902	4270	New dolphin, not flagged. Topo DIKE
	V4904	4267	Dolphin #1, tallest of 4.
	J 4904B	4269	Dolphin or pile used for log boom
			mooring located midway in slough that
			lies between Slaughter's Dike Light
			and Dibblee Dike.

T-9260 (continued)

Number	Photo.	<u>Description</u>
4 904C	4269	Bush on sand area southeast of Slaughter's Dike entrance to slough and about opposite lumber company dock.
/4906 -4908 8	4267 4267	Dolphin #2. Dolphin #3.

9 2 (No 4932 rejected)

Geographic Names

T- 9254:

Columbia River
Crims Island
Gull Island
Bradbury Stough
Abernethy Creek

Abernethy Point Light
Bunker Hill Light
Stella Range Rear Light

T- 9255.

Columbia River
Coal Creek Slough
Crims Island
Green Point
Fisher Island
Fisher Island Slough,
Bradbury Slough.
Stella

Stella Range Front Light Cleaveland Light

T- 9256. Columbia River Mayger

<u>T-9257:</u>

· Columbia River

Walker Island
Fisher Island Slough
Fisher Island Slough

T-9258:

· Columbia River

Walker Island

· Dibblee Point

Rinearson Slough

Barlow Point Light
Slaughters hower Range
Front and Rear Lights

T-9259:

Columbia River

Mt. Coffin Longview

<u>T- 9260:</u>

· Columbia River Longview Bridge · Dibblee Dire hight · Mt. Coffin Light

· Slaughters Dive hight

T-9261:

Columbia River

·/Longview

Rainiev

· Rainier Bar

T-9262:

· Columbia River

· Cowlitz River

. Cottonwood Ishad

· Carroll Chinne)

· Dobelbower Light

· Rainier Bar Lower Dike East End Light

T-9263; . Columbia River . Carroll Chinal · Cottonwood Island, . Carroll Bluff T-9264: . Columbia River Kalama River · coffin Rook Sandy Island Goble Crosk T-9265: · Columbia Airer

· Kalama chinnel

Elder Rocks /

Ahle Point

Hunter Bar Int.

· Sandy Island West Channel -Sandy Island West Channel

REVIEW REPORT Shoreline Manuscripts T-9254 to T-9265 2/ August 1952

62. Comparison with Registered Surveys:

T-1401b	1:10,000	1874	El Wallage To tel gue To	
T-1431a	11		Ez Wallace IdWz Crims Id.	T-9254
		1876	Crims IdBarlow Pt.	T-9255 to 58
T-1454	" 1	876-7		1-7222 00 30
T-1455	11	The state of the s	Darrow I co-Tour ATEM MUSLI	T-9258 to 61
4//		1877	Longview-Cottonwood Id	
T-6567	11	1938	Marama	T-9261 to 65
		1470	Crims Id Walker Id.	T-9257-58
T-6568	11	11	11-71	
T-6569	11	19	Zatto Ide -coc conwood Ide	T-9258 to 62
,0,			Cottonwood Id Martin Id.	T-9262 to 65

See Compilation Report, Headings 33 and 46 for comparisons with

64. Comparison with Maps of Other Agencies:

USE Clatskanie, Oreg. Wash. 1:50,000 1947 (1937 photos)
Area of T-9254 to 58 and T-9260.

USE Kalama, Wash. Oreg. 1:50,000 1947 (1937 photos)
Area of T-9259 to 65.

USE St. Helens, Oreg. Wash.1:50,000 1947 (1937 photos)
Area of T-9265.

64. Comparison with Contemporary Hydrographic Surveys:

H-7742 H-7743 H-7744 H-7745	1:5,000	1949	Sandy Id., west channel Carroll Channel Cottonwood IdRainier Longview	T-9264-65 T-9263 T-9261-63 T-9259-61
H-7746	"	"	Longview-Walker Id.	T-9258-59
H-7747	"	11	Fisher Island	T-9256-58
H-7748	"	"	Fisher IdCrims Id.	T-9251-56
H-7892	1:10,000	1951	Rainier-Coffin Rock (west	chan.) T-9261-64
н-7862		1950	Wallace Id Crims Id.	T-9254

T-9254
XH-7748: Shoreline changes made during review: Chart 6/52
a sandspit (46°10'47"/123°08'45") upon which
willows grow; two areas on the south shore of
Bradbury Slough.

Other additions are: Several dolphins; piling areas; notes about bank character; the dike following the southern shore of Bradbury Slough; and a small tank, for waith as form.

* The hydrographic surveys were brought into agreement with manuscripts 6/30/53 G.F.U.

H-7862: This survey overlaps H-7748 about three minutes. The base for H-7862 was made from T-9510. In the area of overlap positions of dolphin hydrographic stations and the neighboring dolphins were not in agreement in some cases on the two surveys.

Using the larger scale map manuscript, T-9254, radial intersections for the dolphins were tested and found to be within the limits of accuracy.

In the area of overlap on T-9510 and T-9254, hydrographic data on H-7862 should be altered to conform to that delineated on T-9254.

Three snags delineated on H-7862, - one between Gull and Crims Islands, one just off the west point of Crims Island, and one just east of Hydro. Sig. 5708B were not transferred to the map manuscript T-9254.

T-9255 *H-7748.

No major changes were made to the shoreline during review, but a few additions or alterations were made to mage and piling. These have been made in red, so that they are readily apparent.

The dike along the northern shore was added because it differs from that on the 1938 survey and it is incomplete on the current chart.

Items on the hydrographic survey but not on T-9255:

1. Snag at 46°10'53"/123°07'25" (3) Chorted on 6153

2. Stub piling group at 46°10'25"7123°05'10""" "
3. (Islet) at 46°10'10"/123°04'43". Field in-

evident on photo 4292, which was taken at approximate low water.

Geographic names:
Fisher Island Channel changed to Fisher Island
Slough.
"Cleveland" Light on H-7748 is spelled "Cleaveland" on T-9255 and in Light List.

T-9256
*H-7747 and H-7748. No changes in shoreline or hydrographic data were made during review.

Two bluff symbols and notes regarding shore character were added from field inspection information.

* See note page 1

/ (47 Several map

T-9257 *H-7747 - Several snags on H-7747 west of dike 53.0 were not transferred to the map manuscript.

> Additions (in red) during review include: 1. Dike following the north shore of

Fisher Island Slough.

2. Notes describing bank character

3. Piles and snags

4. Railroad shed (rejected Hy.Sig. 4932) which is point "C" for a sextant fix point recorded on photo 4291.

T-9258 +H-7746 - Portions of the shoreline of the mainland along the south channel were re-drawn to conform to field inspection drawing.

> The 25+ ft. dike having a road 7 on top was delineated along the north shore of the north channel. This dike is not shown on the chart.

*H-7747: At 46°09'09"/123°03'30" an area with piling is shown on H-7747. They are not visible in the deep shadows of the photographs and no field information was given. The piling was not delineated on T-9258 during review.

T-9259 *H-7746: The 30-35 ft. dike inland along the north shore of Columbia River was delineated as far as Mt. Coffin during review. A road 7 tops the dike in the western end, but the road has been improved in the Mt. Coffin area. No attempt was made to complete the dike south of Mt. Coffin because the complexity of this area makes field inspection notes essential.

T-9260 *H-7745: Longview Bridge Fog Signal, Siren. Both T-9260 and H-7745 have this siren located on the north pier (near the Gong), though the description in the Light List, field inspection (photo 4271) and form 524 say it is on the south pier.

> T-9260, form 524, and Chart Letter 859 (1949) p.1 have been revised to meet the specifications.

H-7745 needs revision for this item. The siren is correctly placed on chart 6153.

T-9262
H-7744: The shoreline on T-9262 northwest of dike 44.2
was altered to conform to that on H-7744.

T-9263

*H-7743 and/H-7892: The lights for Cottonwood Island

Lower Range were rebuilt in 1951 in entirely new positions so that this range data is obsolete on T-9263.

The 1952 Light List p.98, No. 1148 still says that Cottonwood Island Upper Range Front and Lower Range Front are a common structure. This part of the descriptive note should be deleted.

T-9264

*H-7742 and H-7892: Minor changes to shoreline were made on the west side of the river between the Pacific Tel. and Tel. crossing and the northern map limit.

A stack and four dolphins were added.

T-9265

*H-7742: A dolphin on H-7742 (Hydro. Station WIN) is not entered on T-9265. The field inspector did not mark it, and the photographs give no evidence that a dolphin is there.

The off-shore rock at Elder Rocks was not transferred from H-7742 to T-9265 during review.

A 20-foot dike with a road 7 on top and a portion of the railroad on fill were delineated during review.

Shoreline changes were made at $45^{\circ}59\frac{1}{2}$ '/122°51 $\frac{1}{2}$ ' 7 to 52'.

Topographic station Dolphin, 1949, was labeled. The dolphin had been cut in during compilation. It was formerly Sandy Island Light dolphin and was a triangulation station whose plotted position is the same as the radially cut position.

65. Comparison with Nautical Charts:

6152 1:40,000 July 1944 rev. Jan. 1951 6153 1:40,000 May 1952 (1st ed.)

This group of map manuscripts were applied to charts prior to review. For changes made during review see 64 above.

- T-9257 Charted light "3" at the east end of dike 52.6 south of Fisher Island is not on T-9257. The light was built in 1950.
- T-9258 Light List data not in agreement with map manuscript:

 1. Walker Island Southeast Light is 15 feet west
 of Dike 52.1.
 - 2. Slaughters Lower Range Rear Light is 387 yds, 326° from front light.
- T-9259 Longview wharf is not well represented on the chart.

 Roads and railroad spurs have been added or altered and large mills erected. Additional inspection or information is desirable for the area between Mt. Solo and Complitz River entrance.

Mt. Coffin is being quarried. Only its rim remains.

Charted but not named on T-9259:

- 1. Privately maintained light in the boom area opposite Longview Range lights. The most westerly of the outer line of dolphins was cut in during review. This dolphin occupies the position of the charted light. No field note labeled it as a light, therefore no name has been put on the manuscript.
- T-9260 Two islets between Slaughters Dike and Longview Bridge are not charted.
- T-9261 The dike near the north shore of Columbia River and the log pond entrance near Cowolitz River entrance was added.

The light charted at Comlitz River entrance was not built until 1950 and is not on the map manuscript. Triangulation Red. 1949 is on the old platform.

T-9262 Charted light "31" at the end of dike 43.8 was not built until 1951 and is not on the map manuscript.

The 30-foot dikes at Corolitz River entrance were continued from T-9261.

Shoreline on the north side of Coxviltz River was added a little east of 122°54' and two wooded islands were added. These islands do not appear on chart 6153.

T-9263 A rock was added at 46°04.8 122°54.9 Minor shoreline changes were made to the east shore of Cottonwood Island and some piling was added.

67. Recoverable Topographic Stations:

Forms 524 for twenty-four topographic stations recorded on the hydrographic surveys had been filed under T-sheet numbers. The forms were transferred to the proper H-sheet number. They are listed on page 38a.

68. Accuracy:

These map manuscripts comply with project instructions and conform to field inspection notes. The radial plots were good and the compilation accurately performed. These maps comply with the National Standards of Map Accuracy.

Reviewed by:

Lena T. Stevens 21 August 1952

Approved by:

Chief, Review Section & Division of Photogrammetry

Chief, Div. Photogrammetry

Chief, Neutical Chart Branch Division of Charts and

Chief, Div. Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. 7- 9254

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
5/10/50	3361	Goodrick	Before Merification and Review Completely applied
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A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

NAUTICAL CHARTS BRANCH

T-9254 to SURVEY NO. <u>T-9265</u>, incl.

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
28 Fz6 50	6/53	nichols	Before After Verification and Review
5 May 50	3362-A	HEMac Ewsw	Examined for orineal changes only. Before After Verification and Review
1/5/50	3362B	8a.Mubana	Before After Verification and Review
5/10/50	3361	Goodrich	Before Verification and Review Completely (19254)
10-11-51	6153	Chas. R. Withman	Before After Verification and Review
3/21/52	Reconst.	G.H.E.	Before After Verification and Review
8/14/62	6/53	0.5.	-Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

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