

# 11629

Orig

Diag. Cht. No. 6450-2.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Ph-5905 Office No. T-11629

### LOCALITY

State Washington

General locality Possession Sound

Locality Snohomish River

1959-1960

### CHIEF OF PARTY

Lorne G. Taylor & Fred Natella

### LIBRARY & ARCHIVES

DATE April 1964

USCOMM-OC 5087

# 11629

DESCRIPTIVE REPORT - DATA RECORD

T - 11629

Project No. (II): Ph-5905

Quadrangle Name (IV):

Field Office (II): Mt. Vernon, Washington

Chief of Party: Lorne G. Taylor

Unit Chief: W. V. Hull

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Lorne G. Taylor  
& Fred Natella

Instructions dated (II) (III): 10 Feb 1960 II

Copy filed in Division of

Supplement 1: 5 May 1960 II & III

Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): None

Date received in Washington Office (IV):

NOV 6 1961

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): X

Mean sea level except as follows:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., mean low water or mean lower low water

Reference Station (III): COLVIN 2, 1941

Lat.: 48° 01' 50.561"

Long.: 122° 13' 52.827"

Adjusted X  
Unadjusted

Plane Coordinates (IV):

State: Washington Zone: North

Y= 379,078.13

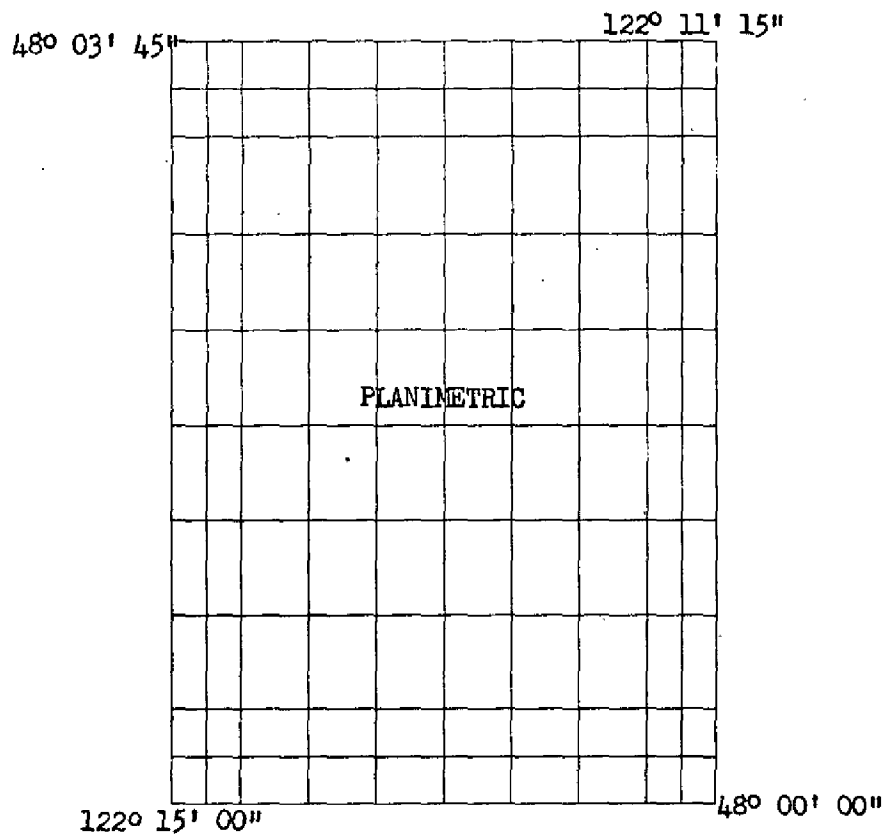
X= 1,657,951.06

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.

DESCRIPTIVE REPORT - DATA RECORD

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY



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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): W. V. Hull & R. B. Melby Date: Aug. 1960

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): 8-30-60 by field inspection and graphic compilation.

Projection and Grids ruled by (IV): R. A. C. Date: 10-10-60

Projection and Grids checked by (IV): J. D. C. Date: 10-14-60

Control plotted by (III): J. L. Harris Date: 1-13-61

Control checked by (III): L. L. Graves Date: 1-13-61

Radial Plot or Stereoscopic Control extension by (III): J. L. Harris Date: 2-14-61

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

Manuscript delineated by (III):  
D. N. Williams, Rough Draft Date: 4-25-61  
C. H. Bishop, Scribing Date: 7-24-61  
C. C. Harris, Stick-up Date: 9-22-61

Photogrammetric Office Review by (III):  
C. C. Harris, Rough Draft Date: 5-8-61  
J. E. Deal, Advance Date: 10-6-61

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

# DESCRIPTIVE REPORT - DATA RECORD

5.

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

Camera (kind or source) (III): C&GS 9-lens and "L" Camera

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
60026 thru 60028	9-9-59	09:05	1:10,000	9.3' above M.L.L.W.
60197 and 60198	"	11:03	"	9.2' " "

**Note:**

Infrared photography taken simultaneously  
with the above was available.

**Tide (III)**

Reference Station: Seattle, Washington  
Subordinate Station: Everett, Washington  
Subordinate Station:

Ratio of Ranges	Mean Range	Diurnal
		Spring Range
	7.6	11.3
	7.4	11.1

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 6.8

Shoreline (More than 200 meters to opposite shore) (III): 10

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 25 Recovered: 12 Identified: 5

Number of BMs searched for (II): None Recovered: Identified:

Number of Recoverable Photo Stations established (III): 2 Located & 2 Recovered

Number of Temporary Photo Hydro Stations established (III): None

Remarks:

## FIELD INSPECTION REPORT

Map Manuscript T-11629

Project Ph-5905

Refer to the Field Inspection Report for the entire Project  
Ph-5905 by Wesley V. Hull, February 1960 to September 1960.

*Filed with Desc. Report T-11584*

## PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-11629

Project Ph-5905

Refer to the combined radial plot report for T-11621, T-11622 and T-11628 thru T-11630, which is included in the Descriptive Report for T-11621 (1960).

MAP T-11629

PROJECT NO. Ph-5905

SCALE OF MAP 1:10,000

SCALE FACTOR

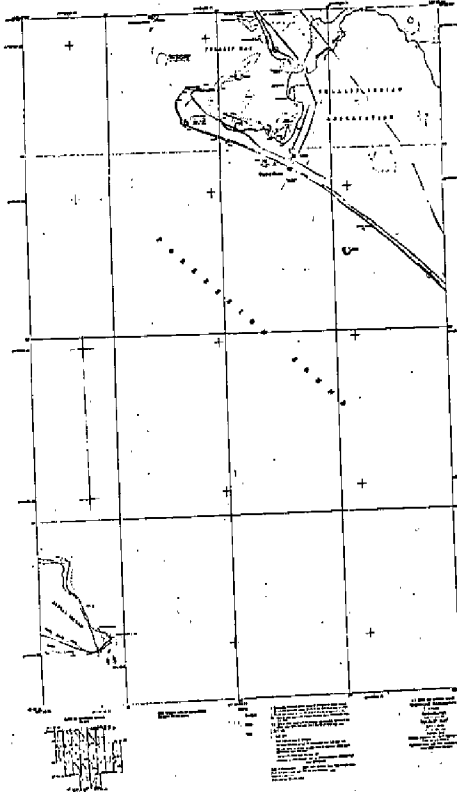
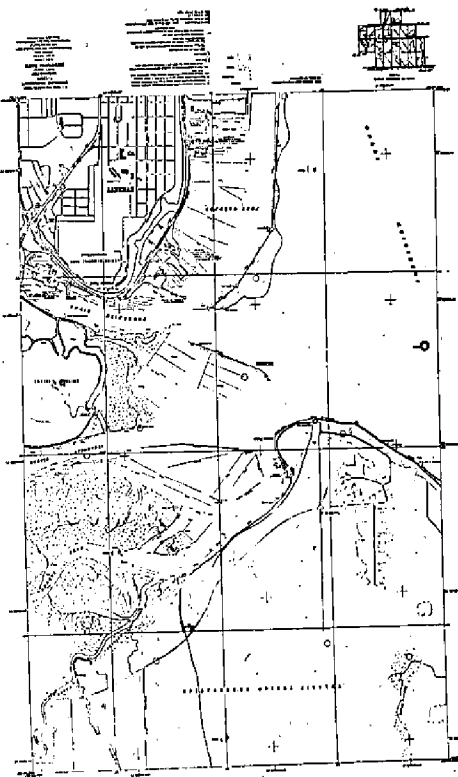
Note

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 CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
						FORWARD	(BACK)	FORWARD	(BACK)
SNOHOMISH RIVER CHANNEL LIGHT 16, 1960	Office	N.A.	374,661.82	4661.82 ( 338.18)		1420.9	( 103.1)		
	Comp.	1927	1,662,572.48	2572.48 (2427.52)		784.1	( 739.9)		
A (USE) 1954	Wash.N.	"	372,390.72	2390.72 (2609.28)		728.7	( 795.3)		
	P-317	"	1,659,279.17	4279.17 ( 720.83)		1304.3	( 219.7)		
A 1 (USE) 1954	"	"	374,306.76	4306.76 ( 693.24)		1312.7	( 211.3)		
	"	"	1,660,623.97	623.97 (4376.03)		190.2	(1333.8)		
A 2 (USE) 1954	"	"	375,077.09	77.09 (4922.91)		23.5	(1500.5)		

COLVT  
EVERE  
CO. H  
EVERE  
CHIM  
EVERE  
S.OF  
PREST  
EVERE  
TIMBE  
PLANT  
SANDY  
SIWAS

J-11629

J-11628



VIEW

1 F  
CO



## COMPILATION REPORT

Map Manuscript T-11629

Project Ph-5905

31. Delineation:

Graphic methods were used for the compilation of planimetric details.

Field inspection was adequate.

32. Control:

Horizontal control was adequate.

33. Supplemental Data:

Map of Everett, Washington, City file Ph-4, Scale 1 inch = 800 ft., revised 6-3-57.

34. Contours and Drainage:

Contours are not applicable.

Drainage was not field inspected. It was delineated by the compiler with reference to the U.S.G.S. Marysville, Washington, 7½ minute quadrangle.

35. Shoreline and Alongshore Details:

The mean-high-water line and alongshore details were adequately field inspected and the compiler had no difficulty in the delineation of these features.

All photography was taken when the tide was about 9.5 ft. above M.L.L.W. and the limits of foreshore areas could not be determined. The character of the foreshore area was furnished by the field inspector and these have been noted along the shoreline or by symbolization.

The infrared photography was used to verify the field inspection of the mean high-water line.

There are no low-water or shoal lines shown.

36. Offshore Details:

There are two rocks, numerous piling and dolphins, and a jetty offshore from the mean high-water line.

37. Landmarks and Aids:

Forms 567 are submitted for these features.

38. Control for Future Surveys:

Forms 524 are submitted for two topographic stations which were recovered; EVER, 1954 and MARY, 1954.

39. Junctions:

Satisfactory junctions were made with T-11628 on the west, T-11630 on the east and T-11637 on the south. There is no contemporary survey to the north.

40. Horizontal and Vertical Accuracy:

Refer to the Descriptive Report for T-11627 (1960).

46. Comparison with Existing Maps:

Comparison was made with the U.S.G.S. Marysville, Washington, 7½ minute quadrangle, Scale 1:24,000, Edition 1956.

47. Comparison with Nautical Charts:

Comparison was made with nautical chart No. 6450, 11th Edition, revised 9-5-60, hand corrected 4-15-61, Scale 1:80,000 at Lat. 47° 57'.

Comparison was made with nautical chart No. 6448, 7th Edition, 3-12-35, revised 10-5-59, Scale 1:40,000.

Items to be Applied to Nautical Charts Immediately.

None.

Items to be Carried Forward.

None.

Approved:

Respectfully submitted:

The block contains two handwritten signatures in cursive. The signature on the left is 'Fred Natella' and the signature on the right is 'J. Edward Deal'.

Fred Natella, CAPT, C&GS  
Portland District Officer

J. Edward Deal  
Cartographer

# SCOTT'S PLOTTING BOARD LANDMARKS FOR CHARTS

Portland, Oregon 9 Aug. 1961

The positions given have been checked after listing by J. L. Harris

**Fred Natalla** *Chief of Party.*

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 6-36, Fig. 79. Positions of charted landmarks and non-floating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

### \* TABULATE SECONDS AND METERS

**STRIKE OUT TWO**

**Portland, Oregon**

19 61

**J. E. Neal**

**Fred Natalia** *Chief of Party.*

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 6-36, Fig. 79. Positions of charted landmarks and non-floating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

1. USCOMM-DC 25412-P01

49. Notes to the Hydrographer:

Two recoverable topographic stations located in 1954 were recovered:

MARY, 1954      EVER, 1954

T - 11629

COMPILATION RECORD	COMPLETION DATE	REMARKS
1. Alongshore area for hydro	Aug. 30, 1961	
4. Interior details added Compilation complete.	Oct. 6, 1961	

## PHOTOGRAMMETRIC OFFICE REVIEW

T-11629

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

## CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy X 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) X 7. Photo hydro stations None 8. Bench marks None 9. Plotting of sextant fixes None 10. Photogrammetric plot report X 11. Detail points X

## ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline X 13. Low-water line None 14. Rocks, shoals, etc. X 15. Bridges X 16. Aids to navigation X 17. Landmarks X 18. Other alongshore physical features X 19. Other along-shore cultural features X

## PHYSICAL FEATURES

20. Water features X 21. Natural ground cover X 22. Planetable contours None 23. Stereoscopic instrument contours None 24. Contours in general None 25. Spot elevations None 26. Other physical features X

## CULTURAL FEATURES

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

## BOUNDARIES

31. Boundary lines X 32. Public land lines None

## MISCELLANEOUS

33. Geographic names X 34. Junctions X 35. Legibility of the manuscript X 36. Discrepancy overlay None 37. Descriptive Report X 38. Field inspection photographs X 39. Forms X40. G.C. Harris  
ReviewerJ. Edward Deal  
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:



48. Geographic Names:

Ebey Slough

Everett

Mission Creek

Port Gardner

Possession Sound

Preston Point

Priest Point

Quilceda Creek

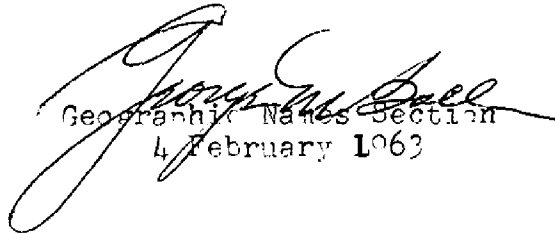
Smith Island

Snohomish River

Steamboat Slough

Sturgeon Creek

Tulalip Indian Reservation

  
Geographic Names Section  
4 February 1963

Review Report  
Shoreline Surveys  
T-11623 through T-11630  
January 1964

61. General Statement

There are eight (8) shoreline maps of project PH-5905, Puget Sound, Washington. These maps were prepared primarily to provide basic maps, including the location of all non-floating aids and landmarks for use in revising our nautical charts and for control of proposed hydrographic surveys.

62. Comparison with Registered Topographic Surveys

T-1388a	1:10,000	1872
T-1681	1:20,000	1885
T-1682	1:20,000	1885
T-1994	1:20,000	1888

Cultural and shoreline changes have been continuous with extensive cultural changes in the urban areas. These maps are supersede the above surveys for common area for nautical charting.

63. Comparison with Maps of Other Agencies

Freeland, Washington	1:24,000	1953
Langley, Washington	1:24,000	1956
Tulalip, Washington	1:24,000	1956
Marysville, Washington	1:24,000	1956

There are cultural and shoreline differences, but in general the agreement is good.

64. Comparison with Contemporary Hydrographic Surveys

H-8609	1:10,000	1960
H-8699	1:10,000	1961
H-8753	1:10,000	1963

Shoreline and control of subject surveys was furnished prior to hydrography and no changes of importance have been made. There is good agreement.

65. Comparison with Nautical Charts

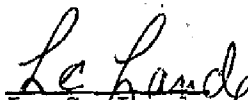
6448	1:40,000	1935 revised to 1962
6450	1:80,000	1961 revised to 1963
<del>1845-C</del>	1:80,000	1963
1845-C		

There are only minor differences between the charts and the subject manuscripts

66. Accuracy of Results and Future Surveys

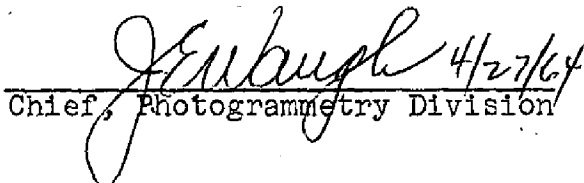
These surveys were prepared according to project instructions and are within the required accuracy for nautical charting.

Reviewed by:

  
L. C. Lande

Approved by:

  
Chief, Photogrammetric Branch

  
Chief, Photogrammetry Division

