

11630

Diag. Cht. No. 6450-2.

Form 804

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Ph-5905 Office No. T-11630

LOCALITY

State Washington

General locality Snohomish River

Locality Marysville

1959-1960

CHIEF OF PARTY

Lorne G. Taylor and Fred Natella

LIBRARY & ARCHIVES

DATE April 1964

USCOMM-DC 5087

11630

DESCRIPTIVE REPORT - DATA RECORD

T - 11630

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
and 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):

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): MARYSVILLE SOUTH MUNICIPAL WATER TANK, 1941

Lat.: 48° 02' 58.598"

Long.: 122° 10' 36.625"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Washington

Zone: North

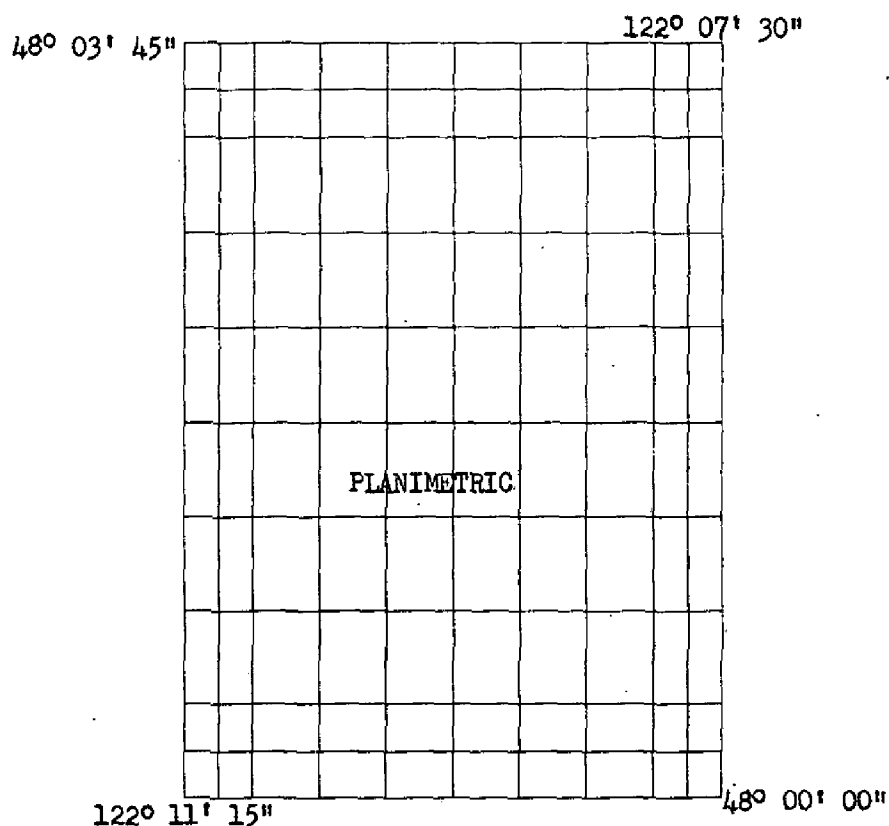
Y= 385,733.56

X= 1,671,405.27

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



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: August 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 for Snohomish River. Other water areas were not field inspected.

Projection and Grids ruled by (IV):

R. A. C.

Date: 10-10-60

Projection and Grids checked by (IV):

J. D. C.

Date: 10-14-62

Control plotted by (III):

J. L. Harris

Date: 1-13-61

Control checked by (III):

L. L. Graves

Date: 1-31-61

Radial Plot or Stereoscopic
Control extension by (III):

J. L. Harris

Date: 2-15-61

Stereoscopic Instrument compilation (III):

Planimetry

Date:

Contours

Date:

Manuscript delineated by (III):

L. L. Graves, rough draft

Date: 6-2-61

J. L. Harris, scribing

9-6-61

C. C. Harris, stick-up

2-20-62

Photogrammetric Office Review by (III):

C. C. Harris, rough draft

Date: 6-6-61

J. E. Deal, advance

5-10-62

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

Date:

DESCRIPTIVE REPORT - DATA RECORD

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

Camera (kind or source) (III): C&GS 9 lens - Focal length 8.25 inches & Camera "L".

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
60028 & 60029	9-9-59	09:06	1:10,000	9.3' above M.L.L.W.
60100 thru 60102	"	09:55	"	9.5' " "

Infrared photography taken simultaneously with the above was available for a small portion of the manuscript.

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): 13
Shoreline (More than 200 meters to opposite shore) (III): 8
Shoreline (Less than 200 meters to opposite shore) (III): 7
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 4
Number of BMs searched for (II): None
Number of Recoverable Photo Stations established (III): 2 recovered; 1 established
Number of Temporary Photo Hydro Stations established (III): None

Recovered: 4 Identified: 4
Recovered: Identified:

Remarks:

FIELD INSPECTION REPORT

Map Manuscript T-11630

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-11930

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).

COMPILATION REPORT

Map Manuscript T-11630

Project Ph-5905

31. Delineation:

Graphic methods were used for the compilation of planimetric detail.

Field inspection was adequate except as stated under Item 35 of this report.

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.

Plat of Marysville, Washington, Hammond, Collier & Isaac, Scale 1 inch = 800 ft. approx.

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 of the Snohomish River were adequately field inspected. For other water areas the field inspection was not satisfactory and consisted for the most part of the identification of piling and dolphins. The delineation of the mean high-water line of these streams was left entirely to the compiler.

All photography was taken when the tide was about 9.0 ft. above M.L.L.W. and the limits of foreshore areas could not be determined. Where the character of the foreshore area was furnished by the field inspector it has been indicated on the manuscript by a note.

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

There are no low-water or shoal lines shown.

36. Offshore Details:

Numerous piling and dolphins are located offshore from the mean high-water line in these narrow streams.

37. Landmarks and Aids:

Form 567 is submitted for five landmarks.

There are no fixed aids to navigation.

38. Control for Future Surveys:

There were two recoverable topographic stations recovered in addition to the recovered triangulation. These were not identified and the location shown is the 1947 scaling by J. Battley.

No photo-hydro stations were located.

39. Junctions:

Satisfactory junctions were made with T-11629 on the west and T-11637 on the south. There are no contemporary surveys to the north and east.

40. Horizontal 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:


Fred Natella, CAPT, C&GS
Portland District Officer


J. Edward Deal
Cartographer

49. Notes to the Hydrographer:

None.

T # 11630

COMPILATION RECORD	COMPLETION DATE	REMARKS
4. Interior details added Compilation complete	May 11, 1962	

PHOTOGRAMMETRIC OFFICE REVIEW

T-11630

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. NONE	15. BRIDGES X
16. AIDS TO NAVIGATION NONE	17. LANDMARKS X	18. OTHER ALONGSHORE PHYSICAL FEATURES X	19. OTHER ALONGSHORE 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 X
40. REVIEWER <i>Lorita L. Harris</i>		SUPERVISOR, REVIEW SECTION OR UNIT <i>Edward Deal</i>	
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:

Allen Creek

Ebey Island

Ebey Slough

Everett

Marysville

Munsen Creek

Quilceda Creek

Snohomish River

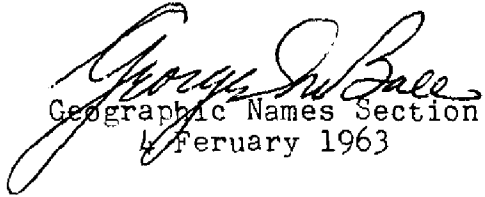
Smith Island

Spencer Island

Steamboat Slough

Tulalip Indian Reservation

Union Slough


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
1845-c.	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
L. C. Lande

Approved by:

Charles L. Lander
Chief, Photogrammetric Branch

J. E. W. 4/27/64
Chief, Photogrammetry Division

