6647

Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
L.O. Colbert, *Director*

State: Washington

DESCRIPTIVE REPORT

~~Topographic~~
Hydrographic } *Sheet No.* 1340

LOCALITY

Grays Harbor, Washington

Hoquiam and Little Hoquiam Rivers

*19*40

CHIEF OF PARTY

Charles Pierce

U. S. GOVERNMENT PRINTING OFFICE: 1931

6647

Form 537
Ed. Dec. 1930

REG. NO.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 1340

REGISTER NO. H6647

State Washington

General locality Grays Harbor, ~~Washington~~

Locality Hoquiam and Little Hoquiam Rivers

Scale 1 : 10,000 Date of survey Dec. 6 and Dec. 10, 1940

Vessel DISCOVERER. Outboard-skiff and motor whaleboat.

Chief of Party Charles Pierce

Surveyed by E. F. Hicks Jr.

Protracted by P. I. Hauk

Soundings penciled by P. I. Hauk

Soundings in ~~fathoms~~ feet

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by C. M. Andros

Verified by C. M. Andros

Instructions dated April 26 (134), 1939

Remarks: Sheet plotted and report written in Oakland Processing Office.

U. S. GOVERNMENT PRINTING OFFICE

DESCRIPTIVE REPORT
to accompany
HYDROGRAPHIC SHEET FIELD NO. 1340 H-6647(1940)
Project No. HT-235
Grays Harbor, Washington
U.S.C. & G.S.S. DISCOVERER
1940

DATE OF INSTRUCTIONS:

Instructions for this project are dated April 13 and 26, 1939.

SURVEY METHODS:

On the Hoquiam River a motor whaleboat with a standard lead line was used. An outboard-skiff with a sounding pole was used for the remainder of the sheet (Little Hoquiam) and the depths recorded in feet and tenths.

Control is visual using shore objects and signals determined by triangulation or topography with boat positions for the most part being determined by the usual three point fix. However, because of the narrow channel, such fixes were impossible to obtain at numerous places, especially on the Little Hoquiam, and in such cases the positions are given as abeam a signal or plotted in accordance with the boat sheet.

No attempt was made to develop this area in accordance with general Coast Survey practice as scale forbids such development, but rather a few lines were run to approximately determine the controlling depth in the channels.

Shoreline topography and signals were transferred from Topographic Sheet No. K-40. T-6809 (1940)

DISCREPANCIES:

At Lat. 46°-59'.3, Long. 123°-54'.1 the 2 foot soundings before and after position 31a (red) appear too shoal.

At Lat. 46°-58'.9, Long. 123°-52'.6 the 9 foot sounding between positions 70a and 71a (blue) appears too shoal.

At Lat. 46°-58'.8, Long. 123°-~~52'.9~~ 53'.0 the 6 foot sounding between positions 8a and 9a (blue) also appears too shoal.

Accepted. These soft on inshore side of development. H.W.M.

SBO

COAST PILOT NOTES:

At the present time large ships do not go beyond the dock on the west bank of the river between signals "Me" and "Gus" (Lat. 46°-58'.4, Long. 123°-52'.6). The dock on the east bank between said signals has been abandoned. Log rafts constitute the only traffic north of signal "Jam" (Lat. 46°-58'.9, Long. 123°-52'.7).

Bridge clearances are shown on topographic sheet K-40. T-6809 (1940)

STATISTICS:

Statute miles of sounding lines - - - - - - - -	10.8
Soundings -	445
(207 sounding pole and 238 lead line)	
Positions -	112

Respectfully submitted,

Paul I. Hauk

Paul I. Hauk
Ass't. Engineering Draftsman
Oakland Processing Office

H6647

LIST OF SIGNALS
to accompany
HYDROGRAPHIC SHEET FIELD NO. 1340
1940

TRIANGULATION

Knob 1939
Ran 1940
Rayon 1940

TOPOGRAPHIC SIGNALS
(Sheet K-40)

Able	El	Hig	Lip	Ore
Art	Em	Hip	Lut	Ox
Bat	Erp	Is	Map	Pie
Bin	Eva	Ice	Me	Pup
Cot	Fil	Jam	Mu	Rar
Cow	Foun	Jel	Na	Sut
Cum	Gem	Jug	Net (On)	Tis
Del	Gus	Kip	Nite	Wat
Don	Her	Kos	Oak	Wet

H6647

STATEMENT
to accompany
HYDROGRAPHIC SHEET FIELD NO. 1340
1940

Smooth plotting and penciling of soundings on this sheet was done by Ass't. Draftsman P. I. Hauk under the supervision of Lieut. S. B. Grenell at the Oakland Processing Office.

The descriptive report was written by P. I. Hauk from notes furnished by E. F. Hicks Jr. of the Seattle office. The signed copy of the field notes is attached.

The completed smooth sheet has been inspected and is approved.

Lieut. S. B. Grenell
H. & G. Engineer
Officer in Charge
Oakland Processing Office

Oakland, Calif.

NOTES TO ASSIST IN WRITING DESCRIPTIVE REPORT, Sheet 1340

GRAYS HARBOR, WASHINGTON.

INSTRUCTIONS

April 13 and 26, 1939

METHODS

Skiff and outboard motor used with sounding pole in Little Hoquiam River. Soundings for this part recorded in feet and tenths in record book. Motor whaleboat used with standard leadline for remainder of sheet.

Owing to narrow channel was unable to obtain fixes at quite a few places, particularly up Little Hoquiam river. In such cases fix is given as abeam certain signal or see boat sheet. Boat sheet position of such fixes should be accepted as it was plotted in the field at that time.

No attempt was made to develop this area in accordance with general Coast Survey practice as scale forbids such development, but rather a few lines were run to determine approximately the controling depth in the river. At the present time large ships do not go any further up the river than the dock, between signals ME and GUS, on the west bank of the river. The dock on the east bank has been abandoned. There is practically no traffic north of signal JAM except log rafts.

Bridge clearances are shown on topographic sheet. T-6809 (1940)

For the reduction of ~~tidal~~ soundings it is recommended that the Aberdeen gage be used to the Eighth street bridge, indicated by red dashed line on the sheet, and the Little Hoquiam gage be used for all soundings north of that bridge.

W shington Office has been requested to advise us as to where the inked topographic sheets covering this season's work should be sent. These topo. sheets are all inked and will be forwarded either to Washington or Processing Office as soon as we hear from the Office.

E. F. Hicks Jr.
E. F. Hicks, Jr.
Jr. H. & G. E.

Approved:
Charles Pierce
Charles Pierce,
H. & G. E.

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. H6647

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	112
Number of positions checked	112
Number of positions revised	0
Number of soundings recorded	445
Number of soundings revised	0
Number of soundings erroneously spaced	43
Number of signals erroneously plotted or transferred	0

Date: May 30, 1941

Verification by [illegible] Time: 29½ hrs.

Review by Harold W. Murray Time: 6 hrs

2629

HYDROGRAPHIC SURVEY NO. H6647

Smooth Sheet One

Boat Sheet One

Records; Sounding 1 Vols., Wire Drag ___ Vols., Bomb ___ Vols.

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes

Landmarks for Charts (Form 567) Yes

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) None

Special Chart for Lighthouse Service ~~Aug. 10, 1940~~
(Circular Nov.30, 1933)

Hydrography: Total Days _____; Last Date _____

Remarks _____

3776

	Remarks	Decisions
1	Do not int pending inquiry	469238
2		469240
3		469239
4		" U.S.G.B.
5		"
6		469238
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M 234		

GEOGRAPHIC NAMES

Survey No. H6647

Name on Survey	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
East Hoquiam River										1
Grays Harbor										2
Hoquiam										3
Hoquiam River										4
Little Hoquiam River										5
Rennie Island										6
										7
										8
		L. Heck		5/23/41						9
										10
										11
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										27

M 234

VERIFIER'S REPORT OF HYDROGRAPHIC SURVEY NO. H **H6647**

Verified and Inked by *W. Andoe* Date *May 19, 1941*

1. ✓ The descriptive report was consulted and appropriate action taken.

2. ✓ Soundings originating with the survey and mentioned in the descriptive report have been verified, including latitude and longitude.

3. ✓ All references to survey sheets mentioned in the descriptive report include the registry number and year.

4. Geographic names of hydrographic features are in slanting lettering and of topographic features in vertical lettering.

5. ✓ All items effecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken.

6. ✓ All positions verified instrumentally were check marked in the sounding records.

7. ✓ All critical soundings are clear and legible.

8. ✓ The metal protractor has been checked within the last three months.

9. ✓ The protracting and plotting of all bad crossings were verified.

10. ✓ All detached positions locating critical soundings, rocks or buoys were verified.

11. ✓ The boat sheet was compared with the smooth sheet.

12. ✓ The spacing of soundings as recorded in the records was closely followed.

13. ✓ The bottom characteristics were shown on outstanding shoals.

14. ✓ The reduction and plotting of doubtful soundings were checked.

15. The transfer of contemporary topographic information was carefully examined.

16. All junctions were transferred.

17. The notation "JOINS H " was added for all contemporary adjoining or overlapping sheets now registered. *There are no contemporary adjoining or overlapping sheets now registered.* AHK

18. The depth curves have been drawn to include the significant depths.

19. All triangulation stations and transfer of topographic and hydrographic signals were checked by the field party.

20. Heights of rocks were checked against range of tide.

21. Rocks transferred from topographic survey have a dotted curve where shown thereon.

22. Unnecessary pencil notes have been removed.

23. Objects on which signals are located and which fall outside of the low water line have been described on the sheet.

24. The low water line and delineation of shoal areas have been properly shown (see letter of October 20, 1934).

25. Degree and minutes values and symbols have been checked.

26. Source of shoreline and signals (~~When not~~ given in report).

27. Depth curves were satisfactory ~~except as follows~~:

28. Sounding line crossings were satisfactory except as follows: ✓

29. Junctions with contemporary surveys were satisfactory except as follows: No contemporary survey sheets available. ✓

30. Condition of sounding records was satisfactory. ~~except as follows:~~

31. The protracting was satisfactory. ~~except as follows~~:

32. The field plotting of soundings was satisfactory. ~~except as follows:~~

33. Notes to reviewer:

Descriptions of recoverable topographic stations were secured from Recovery Parties No. 524. (Me El Na Gus)

Descriptions of topographic stations Jam and Art were secured from the boat sheet. ✓

MA.

FORM M-238

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTOSTAT~~

No. H H6647

~~No. T~~

received Mar. 13, 1941
registered Apr. 14, 1941
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
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24			
25	✓	HC	Page 2
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62			
63			
82			
83			
88			
90			

RETURN TO

82	T. B. Reed

✓ 3350R

LAC
MCE

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

Coastal Surveys May 9, 1941

Division of ~~Hydrography and Topography~~:

Division of Charts: Attention: Mr. H. R. Edmonston

Plane of reference approved in
1 volumes of sounding records for

HYDROGRAPHIC SHEET 6647

Locality Hoquiem and Little Hoquiem Rivers, Grays Harbor, Washington

Chief of Party: Chas. Pierce in 1940
Plane of reference is
0.3 ft. on tide staff at Aberdeen
15.9 ft. below B. M. 2
1.9 ft. on tide staff at Little Hoquiem River
17.7 ft. below B. M. 1

Height of mean high water above plane of reference is 9.2 feet at Aberdeen;
9.0 feet at Little Hoquiem River.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE 154327

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF HYDROGRAPHIC SURVEY NO. 6647 (1940) FIELD NO. 1340

Washington, Grays Harbor, Hoquiam and Little Hoquiam Rivers
Surveyed in December 1940, Scale 1:10,000
Instructions dated April 13 and 26, 1939 (DISCOVERER)

Soundings: Handlead and Pole

Control: Three-Point Fixes on Shore Signals

Chief of Party - Charles Pierce
Surveyed by - E. F. Hicks, Jr.
Protracted by - P. I. Hauk
Soundings plotted by - P. I. Hauk
Verified and inked by - P. H. Andros
Reviewed by - Harold W. Murray, May 21, 1941
Inspected by - H. R. Edmonston

1. Shoreline and Signals

The shoreline and signals originate with plane table survey T-6809 (1940).

2. Sounding Line Crossings

Agreement of such crossings as result from the work is satisfactory.

The three sounding discrepancies of 2 to 9 feet discussed in the Descriptive Report, page 1, have been accepted. These soundings are on the inshore side of the development and are not far from the low water line.

3. Depth Curves

The usual depth curves may be satisfactorily drawn within the limits of the hydrography.

4. Junctions with Contemporary Surveys

Junctions with contemporary surveys at the mouth of Hoquiam River will be considered when that work is received from the field.

5. Comparison with Prior Surveys

a. H-334 (1852) and H-427 (1852), scales 1:221,360 and 1:214,690

These early reconnaissance surveys contain topography only and no further consideration is necessary.

b. H-1589b (1883), scale 1:20,000

This sparsely developed survey contains a single line of soundings (depths from 12 to 21 feet) which was run about one-third of a mile upstream from the mouth. No adequate comparison with the present survey can be made. The present survey supersedes this information.

6. Comparison with Chart 6195 (New Print date 10-7-1940)

a. Hydrography

Charted hydrography originates with an Army Engineers' survey of 1933, Bp. 26409. The development on a scale of 1:3,600 is quite intense. Sounding lines are run at right angles to the channel, are spaced at 30-meter intervals and contain about 9 soundings per line. Adequate comparison with the present survey cannot be made, and it is therefore recommended that the present survey be used to supplement this information.

The chart shows several underwater cable and pipeline areas. No actual crossings of these items are noted on the present survey.

b. Aids to Navigation

No aids to navigation are charted within the limits of the present survey. The present survey shows several lights on the tops of bridges which are probably privately maintained.

7. Compliance with Instructions for the Project

The plan, character and extent of the survey satisfy the Instructions for the Project.

8. Condition of Survey

a. The sounding records are neat and legible.

b. The protracting and plotting of soundings were satisfactory.

c. The Descriptive Report is clear and satisfactorily covers all matters of importance.

9. Additional Field Work Recommended

This is a satisfactory survey and no additional field work is necessary.

10. Superseded Surveys

H-334	(1852)	In part
H-427	(1852)	" "
H-1589b	(1883)	" "

Examined and approved:

Thos B Reed
Chief, Surveys Section

J. B. Bowden
Chief, Division of Charts

E. H. Green
Chief, Section of Hydrography

G Rude
Chief, Division of Coastal Surveys

applied to bkt. 6195 Aug 12, 1941 W.A.B.