

6101

U. S. COAST & GEODETIC SURVEY
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FORM 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton, Director

State: Washington

DESCRIPTIVE REPORT

Topographic }
Hydrographic } Sheet No. 3 - 19356101

LOCALITY

Fuget Sound

East of Vashon Island

1935.

CHIEF OF PARTY

Jack Senior.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. 3 - 1935

REGISTER NO. H6101

State Washington

General locality Puget Sound

Locality East of Vashon Island

Scale: 20,000 Date of survey April & May, 1935.

Vessel U.S.C. & G.S.S. EXPLORER

Chief of Party Jack Senior

Surveyed by L. C. Wilder

Protracted by Howard H. Hardy

Soundings penciled by L. C. Wilder

Soundings in fathoms feet

Plane of reference Mean Lower Low Water

Subdivision of wire dragged areas by

Inked by L. A. McGann

Verified by

Instructions dated March 29, 1934.

Remarks:

DESCRIPTIVE REPORT
TO ACCOMPANY HYDROGRAPHIC SHEET NO. 3,
PUGET SOUND - WASHINGTON.

AUTHORITY:

This survey was made under Instructions to the Commanding Officer, Ship EXPLORER, dated March 29, 1934. ✓

LIMITS:

The survey covers the waters east of Washon and Maury Islands from Pulley Point to an approximate line from Dash to Piner Point. ✓

SCALE:

The scale is 1;20,000. ✓

CONTROL:

The usual standard control of triangulation and topographic stations was used. ✓

METHODS:

Accepted Coast Survey methods were used throughout, three point fixes, ten pound handlead up to fifteen fathoms and an eighteen pound lead and machine in deeper water. ✓

Soundings were "spotted" alongside of important docks rather than to locate by three point fixes. ✓

The inshore work was accomplished first with the plan of using the Ship EXPLORER, in the deeper water but she was used only for a small area off Des Moines. ✓

GENERAL CHARACTERISTICS OF SHORELINE AND BOTTOM:

The shoreline between the low and high water lines is sand or gravel, strewn in many places with small boulders. This consistency continues into deep water, about to the fifty fathom curve, beyond which the bottom is a clay mud. ✓

DANGERS, OBSTRUCTIONS AND SHOALS:

There are no dangers or obstructions on this sheet. ✓

The only shoals found are those in Latitude $47^{\circ}22.7'$ and Longitude $122^{\circ}23'$ to $24'$. The shoalest water obtained here was fifteen fathoms on the westerly shoal, twenty fathoms on the easterly shoal, sand bottom. ✓

CHANNELS, AIDS AND RANGES:

Description of this channel is not necessary. There are no aids or ranges except the lights on Pulley and Robinson Points. ✓

ANCHORAGES:

There are no good anchorages within the area of this sheet. The bottom in anchoring depths is sand or gravel. However, as required, vessels may anchor in suitable depths alongshore; Tramp Harbor and the south shore east of Dash Point being more desirable on account of prevailing southerly winds. ✓

CURRENTS AND TIDE RIPS

No currents other than normal tidal currents were noticed. ✓

Tide rips were noticed off Pulley Point. ✓

DISCREPANCIES:

No important discrepancies have been noted. ✓

COMPARISON WITH EXISTING SURVEYS:

A comparison with Chart No. 6460, only can be made, as photo-stats of old sheets are not at hand. There are but two depth curves on this chart, the low water line and the five fathom curve, and soundings are so few that a comparison can hardly be made. ✓

The general depths and the general location of the low water line seem to have changed little. *three* ✓

The only two shoals found in the survey, southwest of Point Robinson, are not shown on Chart No. 6460. ✓

LANDMARKS:

It is recommended that the following be charted. These objects are also reported on "Report of Landmarks" Form No. 567.

Cupola, (Topographic Signal "BIS")

Pulley Point Light

Pt. Robinson Light

Three oil tanks, Tramp Harbor (Topographic Signal "BET")

Chimney, Normandy Beach Club House (Topo. Signal "BIT")

Water Tank, Masonic Home (Triangulation Station "TANK - 1935")

The dock in Tramp Harbor, dock at Dash Point and Lakota (this is being repaired) are the only docks which are kept in repair. There are two small docks in Dumas Bay in poor repair.

GEOGRAPHIC NAMES:

See report on "Topographic Sheet C - 1935", by Lieutenant Baum, who made a special attempt to obtain full information on geographic names.

I agree with his recommendations as to "Three Tree Point", "East Passage", and "Salt Water Beach".

I have checked "Lakota" as the locally known name at the point east of Dumas Bay.

"Salt Water Beach" is the shore at Salt Water State Park.

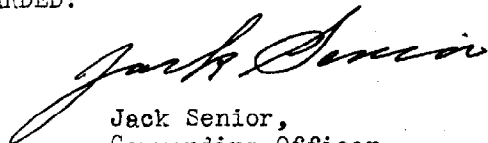
"Normandy Park" is a large, locally known, real estate development in the vicinity of signals "BIT" and "DAB".

Respectfully submitted,



L. C. Wilder,
H. & G. Engr., C. & G. S.

APPROVED AND FORWARDED:



Jack Senior,
Commanding Officer,
U.S.C. & G.S.S. EXPLORER.

STATISTICS

Number of positions.....2377
Number of soundings (handlead).....4023
Number of soundings (machine).....2334
Statute miles of sounding lines.....326.6

HYDROGRAPHIC SURVEY NO. H6101

Smooth Sheet Yes

Boat Sheet 1

Sounding Records Yes - 7 Vols. _____

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes

Landmarks for Charts (Form 567) Yes

Statistics Yes

Approved by Chief of Party No

Recoverable Station Cards (Form 524) No

Special Chart for Lighthouse Service No
(Circular Nov. 30, 1933)

Remarks _____

Section of Filled Records.
Hydrographic Survey No 6101 (1935)

East of Vashon Island, Puget Sound.
Washington.

1. Condition of Records.

In general the records conform to the requirements of the Hydrographic Manual. ✓

2. Shoreline and Control.

The shoreline and signals shown on H-6101 have been transferred from T-6435 and T-6441. That portion of shoreline on T-6441 which falls within the area of survey H 6101 was transferred in this office by the verifier. ✓

4. Length Curves.

The inshore curves cannot be satisfactorily drawn where they are not well defined by soundings.

5. Aids to Navigation.

There are no floating aids to navigation within the area of survey H 6101. Robinson Pt. L.H. is shown but Pulley Point Light is not. Δ Pulley, 1921 is 11 meters from this light. ✓

6. Junctions with Contemporary Surveys.

Junction with H-5725 on the north and ✓

with H. 5932 on the south were made by
the verifier. ✓

7. Field Plotting

The field plotting was well executed. ✓
Two portions had been erroneously numbered.

8. Remarks.

This is the first hydrographic survey
to be inked and verified by the verifier.
On account of the demand for this survey
at the earliest possible time no time has been
taken to make a preliminary review before ✓
forwarding to the reviewing section. Consequently,
there may be some irregularities in the
work which has been done in the course of its
verification.

Leland A. McGowan
October 12, 1936.

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H6101**

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

Number of positions on sheet	2377
Number of positions checked	66
Number of positions revised	3
Number of soundings recorded	6367
Number of soundings revised	35
Number of signals erroneously plotted or transferred	—

Date: *October 12, 1936.*

Verification by *Lemard A. Wilson* Time: *90 hours.*

Review by *John G. Hadd* Time: *7 "*

Remarks

Decisions

	Remarks	Decisions
1		
2		
3		
4	surety T14526 has "Tramp"	Tramp
5	already named Pt. Pully by several authorities	Pt. Pully
6		
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MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

} No. H **6101**
No. T

{ received APR 16 1936
registered MAY 12 1936
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			
22			
24			
25			
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	
----	--

C. K. Green May 12 - '36

GEOGRAPHIC NAMES

Survey No. H6101

Name on Survey	On Chart No. <u>6460</u> On previous survey No. <u>17526 (1922)</u> On U. S. Quadrangle Maps From local information On local Maps P. O. Guide or Map Rand McNally Atlas U. S. Light List <u>USBG</u>									
	A	B	C	D	E	F	G	H	K	
<u>Puget Sound (East Passage)</u> ✓				✓						1
<u>Maury Island</u> ✓	*	✓	✓							2
<u>Point Robinson</u> ✓	*	✓	✓							3
<u>Tramo Harbor</u> ✓	*	✓	✓							4
Three Tree Point										5
<u>Poverty Bay</u> ✓	*	✓	✓							6
<u>Dumas Bay</u> ✓				✓						7
<u>Pt. Pully</u> ✓ R	*	✓	✓					✓	✓	8
Three Tree Point				✓						9
<u>Lakota</u> ✓				✓						10
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R2 referred to
USBG

Names underlined in red approved
by (Signature) on 5/15/35

RQC

TIDE NOTE FOR HYDROGRAPHIC SHEET

August 29, 1936.

Division of Hydrography and Topography:

✓ Division of Charts: Attention: Mr. E. P. Ellis

Plane of Reference

~~Tide Gauging Record~~ approved in
7 volumes of sounding records for

HYDROGRAPHIC SHEET 6101

Locality East of Vashon Island, Puget Sound, Wash.

Chief of Party: Jack Senior in 1935
Plane of reference is mean lower low water reading
4.5 ft. on tide staff at Des Moines
12.6 ft. below B.M. 1 (1935)

Height of mean high water above plane of reference is 10.8 feet.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

TIDAL REPORT

H6101

TO ACCOMPANY HYDROGRAPHIC SHEET NO. 3,

~~6100~~

PUGET SOUND - WASHINGTON,

1935.

A portable automatic gauge was in operation on the remains of the dock at Des Moines in Latitude $47^{\circ}23.9'$, Longitude $122^{\circ}19.8'$, from April 16 to May 16, 1935.

Reference Plane, M.L.L.W.

4.5 on staff. ✓

Highest Tide, April 30

17.2 on staff.

Lowest Tide, May 4

1.4 on staff.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6101 (1935) FIELD NO. 3

East of Vashon Island, Puget Sound, Washington.

Surveyed in 1935 - Scale 1-20,000

Instructions dated March 29, 1934 (EXPLORER)

Hand Lead and Machine Soundings.

3 Point fixes on shore signals.

Chief of Party - Jack Senior
Surveyed by - L. C. Wilder
Protracted by - H. H. Hardy
Soundings penciled by - L. C. Wilder
Verified and inked by - L. A. McGann

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual except that no approval note by the Chief of Party was contained in the records.

The Descriptive Report is complete and satisfactorily covers all items of importance.

2. Compliance with Instructions for the Project.

The survey satisfies the instructions for the project.

3. Shoreline and Signals.

The shoreline and topographic signals originate with T-6435 (1935) and T-6441 (1935). The hydrographic signals originate with this survey and the cuts for same are recorded in sounding volume 2.

4. Sounding Line Crossings.

No regular system of crosslines was run, however those that occur in the normal development of the work together with the parallel adjacent lines are in good agreement.

5. Depth Curves.

The usual depth curves may be satisfactorily drawn including most of the low water curve.

6. Junctions with Contemporary Surveys.

The junctions with H-5725 (1935) on the north and with H-5932 (1935) on the south are satisfactory.

7. Comparison with Prior Surveys.

a. H-1425a (1877-78).

H-6101 (1935)-2

This survey on a 1-20,000 scale, although very sparsely developed, covers the entire area of the present survey. A comparison shows a very good agreement with the following exceptions:

- (1) The $5\frac{1}{2}$, $19\frac{1}{2}$ and $36\frac{1}{2}$ fathom soundings, at approximate lat. $47^{\circ} 23.8'$, long. $122^{\circ} 20.1'$ fall in depths of 5 to 25 fathoms deeper on the present survey. These 3 soundings are controlled by positions 13 and 14b', the left angles for which are questioned in the sounding volumes and are marked "Reject Wrong". They should therefore be disregarded in future charting.
- (2) The $37 \frac{3}{4}$ fathom sounding (charted as 37) at lat. $47^{\circ} 20.6'$, long. $122^{\circ} 26.8'$ falls in depths of about 70 fathoms (interpolated) on the present survey. The sounding was found to be erroneously plotted on the old survey and when correctly plotted is in good agreement with the present work.

b. H-4752 (1928).

This survey on a scale of 1-10,000 contains only a single inshore sounding line which comes within the limits of the present survey. The agreement is satisfactory.

8. Comparisons with Chart No. 6460 (New Print dated Sept. 24, 1935)

Within the limits of the survey the chart is based on surveys discussed in the foregoing paragraphs and contains no additional information that needs consideration in this review.

9. Field Plotting.

The field plotting was satisfactory.

10. Additional Field Work Recommended.

This is a well executed survey and no additional field work is required.

11. Superseding Old Surveys.

The present survey within its limits supersedes the following surveys for charting purposes:

H-1425a (1877-78)	in part
H-4752 (1928)	" "

H-6101 (1935)-3

12. Reviewed by John G. Ladd, Oct. 13, 1936.

Inspected by - A. L. Shalowitz.

Examined and approved:

C. K. Green
C. K. Green,
Chief, Section of Field Records.

Fred. L. Penner
Chief, Section of Field Work.

L. O. Pollock
Chief, Division of Charts.

G. W. de
Chief, Division of H. & T.

Applied to Cnt. 6407 Sept. 9, 1937. K.P.
" " " 6460 May 26, 1938 K.P.