

6193

U. S. COAST & GEODETIC SURVEY
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Form 504
Rev. April 1935
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic } Sheet No. _____
Hydrographic }

State WASHINGTON

LOCALITY

..... PUGET SOUND

VICINITY OF PORT TOWNSEND

.....
1937.
.....

CHIEF OF PARTY

..... G. C. JONES

U. S. GOVERNMENT PRINTING OFFICE

1 eb

6193

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.

REGISTER NO. H 6193

State Washington

General locality Puget Sound

Locality Vicinity of Port Townsend

Scale 1:5,000 Date of survey May 11-13, 19 37

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

Chief of Party G. C. Jones

Surveyed by R. J. Sipe and H. C. Applequist.

Protracted by R. J. Sipe

Soundings penciled by R. J. Sipe

Soundings in ~~fathoms~~ feet

Plane of reference M.L.L.W.

Subdivision of wire dragged areas by

Inked by L. A. McGann.

Verified by L. A. McGann.

Instructions dated March 2, 19 37

Remarks:

DESCRIPTIVE REPORT
TO ACCOMPANY HYDROGRAPHIC SHEET FOR
NATIONAL PAPER PRODUCTS COMPANY
VICINITY OF PORT TOWNSEND - WASHINGTON

MAY 11 - 13, 1937

INSTRUCTIONS:

In accordance with instructions dated March 2, 1937, from the Director, U. S. Coast and Geodetic Survey, a survey has been made in the vicinity of National Paper Products Company at Port Townsend. ✓

SCALE:

The scale of this sheet is 1:5,000. ✓

SURVEY METHODS:

Sextant fixes from objects on shore were used for positions and a standard hand leadline with a ten pound lead was used for sounding. ✓

DISCREPANCIES:

With the exception of soundings along the edge of the previous dredged area, the crossing line soundings agree favorably. ✓

The field reductions did not indicate the 3 foot difference in soundings between positions 35 to 36 "a" and 91 to 92 "c". See verifier's report. Par. 4.

DANGERS:

There are no dangers in the area surveyed. ✓

CHANNELS:

The northern edge of the old dredged area is marked by spar buoys. ✓

COMPARISONS WITH PREVIOUS SURVEYS:

The results of this survey show that the old dredged area has a controlling depth of 26 feet in place of 30 feet as shown on Chart No. 6405 of this area. In the vicinity of the 4-1/4 fathoms sounding indicated on the section of chart furnished with the instructions, the shoalest depth found was 27 feet. However, about 80 meters towards signal "Gin", from the 4-1/4 fathoms sounding, there are a number of 26 foot soundings surrounded by 28 foot soundings. No indication of hard bottom was found on the sheet. ✓ ✓

STATISTICS

<u>DATE</u>	<u>DAY</u>	<u>POS.</u>	<u>SDGS.</u>	<u>STAT.MILES</u>
May 11	a	96	348	7.1
" 12	b	239	975	13.0
" 13	c	<u>119</u>	<u>375</u>	<u>5.8</u>
Total:		454	1698	25.9

TIDAL NOTE

The old tide staff installed by Lieut. Hubbard on Fort Worden Dock, was used for tidal reducers.

M.L.L.W. on staff	3.9 feet
Highest tide	(Not observed)
Lowest tide	Minus 2.9 feet

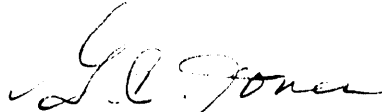
The foregoing report is respectfully submitted,



R. J. Sipe,
H. & G. E., C. & G. S.,
U.S.C. & G.S.S. EXPLORER. ✓

Descriptive report approved and forwarded.

This hydrographic sheet and accompanying records have
been inspected and are approved. ✓



G. C. Jones,
Chief of Party, C. & G. S.,
U.S.C. & G.S.S. EXPLORER.

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Ed. Feb. 1935

TIDE NOTE FOR HYDROGRAPHIC SHEET

Division of Hydrography and Topography:

June 11, 1937.

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

Tide Reducers are approved in
2 volumes of sounding records for

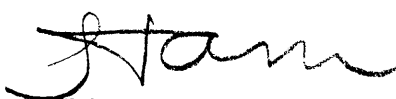
HYDROGRAPHIC SHEET 6193

Locality Port Townsend, Puget Sound, Washington.

Chief of Party: G. C. Jones in 1937
Plane of reference is mean lower low water, reading
3.9 ft. on tide staff at Fort Worden
15.0 ft. below B.M. 1

Height of mean high water above plane of reference is 7.6 feet.

Condition of records satisfactory except as noted below:


Acting Chief, Division of Tides and Currents.

GEOGRAPHIC NAMES

Survey No. H-6193

Name on Survey	Sources										VSCP
	A	B	C	D	E	F	G	H	K		
<u>Port Townsend (city)</u>	✓			✓	✓		✓				1
<u>Port Townsend (bay)</u>	✓	✓		✓	✓		Port Townsend Hbr.		✓		2
<u>Quimper Pen.</u>	✓			✓							3
<u>Puget Sd.</u>	✓										4
<u>Wash.</u>	✓										5
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											25
Names underlined in red approved											26
by <u>RAE</u> on <u>6/10/37</u>											27

Remarks

Decisions

1		<i>USGB decision</i>
2		
3	<i>ch'd since 1891</i>	
4	<i>For Title</i>	<i>USGB decision</i>
5	<i>" "</i>	<i>" "</i>
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Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H6193**

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

Number of positions on sheet	... 454
Number of positions checked	... 12
Number of positions revised	... 1
Number of soundings recorded	... 1698
Number of soundings revised	... 7
Number of signals erroneously plotted or transferred

Date: *Aug. 31, 1937.*

Verification by *Leonard A. McBan* Time: *19½ hours.*

Review by *J. A. McCormick, Sept. 21, 1937.* Time: *13 hr.*

HYDROGRAPHIC SURVEY NO. _____

Smooth Sheet **Yes** _____

Boat Sheet **Yes** _____

Sounding Records **2** Vols. _____

Descriptive Report **Yes** _____

Title Sheet **Yes** _____

List of Signals **None** _____

Landmarks for Charts (Form 567) **None** _____

Statistics **Yes** _____

Approved by Chief of Party **Yes** _____

Recoverable Station Cards (Form 524) **None** _____

Special Chart for Lighthouse Service **None**
(Circular Nov. 30, 1933) _____

Remarks _____ **HYDROGRAPHY** _____

Total Days **3**

Last Date **May 13, 1937**

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT } No. H-6193
~~PHOTOGRAPHIC RECORD~~ } ~~No. 6193~~

{ received June 9, 1937
 registered June 10, 1937
 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		eKg	sent notice.
26			
30			
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62			
63			
82			
83			
88			
90			

RETURN TO

82	C. K. Green
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REPORT ON H*-6193 (1937)

1. The records conform to the general requirements of the Hydrographic Manual, except in the following cases: (1) A list of the signals shown on this survey has not been entered in the first volume on the second page. (2) The position numbers and day letters on the cover label have been entered in black ink instead of blue. ✓
2. The field plotting was complete, neatly executed. The depth curves can be completely drawn except at the southern edge where the log booms interfered with the sounding work, *also in the basin of the docks at lat. 48° 05.6, long 122° 47.6 where there is a small holiday in the work.* ✓
3. The topography shown on this survey originates with Plane table survey T-6553 (1937). ✓
4. There is one discrepancy of crossing on this survey located at lat. 48° 05.7', long. 122° 47.4' where line 35 - 36 "a" crosses line 91 - 92 "c". The 26-foot sounding shown falls on the 29.5 foot sounding of line 91 - 92 "c". This discrepancy is also mentioned in the field party's report on page 1. c day soundings are widely spaced and probably missed the 26. The 29 falls on the 26 which in turn is only 10 meters from a 29 inked on a third line. The bottom is lumpy. Agreement is satisfactory.
J.A.M.C.
5. There are no contemporary hydrographic surveys of this area by this bureau. The previous survey made here in year 1891 is a combined hydro- and topographic survey. ✓

Leonard A. Mc Gann
August 31, 1937.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6193 (1937) FIELD NO. —

Vicinity of Port Townsend, Puget Sound,
Washington. - Surveyed in May, 1937.

Scale 1:5,000

Instructions dated March 2, 1937 - (EXPLORER)

Hand Lead Soundings.

3 Point fixes on shore signals

Chief of Party - G. C. Jones
Surveyed by - R. J. Sipe and H. C. Applequist
Protracted by - R. J. Sipe
Soundings plotted by - R. J. Sipe
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 as follows:

- a. A list of the signals used on the survey was not entered in the first volume of the sounding records (Hydrographic Manual, page 17, Par. 139)
- b. The position numbers and day letters were not entered on the cover label and title page in the color used in the records. (Hydrographic Manual, page 17, Par. 138). This was corrected in the office.
- c. Soundings were not taken when locating navigational buoys. (Hydrographic Manual, page 14, Par. 124).
- d. Minutes and seconds of latitude and longitude were not shown at the ends of the 1/2 minute parallels and meridians. These were added in the office.

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

2. Compliance with Instructions for the Project

The plan, character and extent of the survey satisfy the instructions for the project except that more soundings, detached if necessary, should have been taken immediately off the wharf in Lat. 48° -05.6', Long. 122° -47.7'. (see Par. 8a, this review).

3. Shoreline and Signals.

The shoreline and topographic signals originate with T-6553 (1937).

4. Sounding Line Crossings.

No general system of cross lines was run but those that were as

well as the parallel, adjacent lines show good agreement.

5. Depth Curves.

Within the limits of the survey the usual depth curves may be satisfactorily drawn except in the vicinity of the wharf in Lat. $48^{\circ} 05.6$, Long. $122^{\circ} 47.7$ and in the area obstructed by a log boom at the time of the survey in Lat. $48^{\circ} 04.9$, Long. $122^{\circ} 47.5$.

6. Junctions with Contemporary Surveys

There are no contemporary surveys in this area. The overlap with the older surveys as represented on Chart 6405 is, however, satisfactory.

7. Comparison with Prior Surveys

- a. H-333 (1852), 1:214,000; H-405 (1853), 1:212,000; H-434 (1854) 1:10,000.

The first two are small scale reconnaissance surveys and contain only a few soundings within the area of the present survey. H-434 (1854) although on a large scale, is also in the nature of a reconnaissance survey. They contain no information of current value and should be superseded for charting purposes by the present survey.

- b. H-1729 (1885-6), 1:20,000.

This survey covers the entire area of the present survey. The depths are in fair agreement except in the vicinity of the wharves where artificial changes have taken place. The present survey is much better controlled and much more closely developed and should supersede the above survey in future charting.

- c. T-2071 (1891), 1:4,800; T-2072 (1891), 1:4,800.

These combined topographic and hydrographic surveys cover the major portion of the present survey. The depths are in good agreement except in the dredged area off the wharf in Lat. $48^{\circ} 05.6$, Long. $122^{\circ} 47.7$. The 25 foot sounding (charted $4\frac{1}{2}$ fms) in Lat. $48^{\circ} 05.69$, Long. $122^{\circ} 47.30$, originating with Pos. 96- 97a on T-2072 (1891), falls in depths of 27 feet on the present survey with 26 feet 90 meters west southwest. Surrounding depths on the present survey show considerable deepening due to dredging so the 25 foot sounding should be disregarded in future charting. The present survey, because of its better control and closer development, should supersede the above surveys for charting purposes.

8. Comparison with Chart No. 6405 (New Print dated Nov. 3, 1936).

- a. Hydrography.

Within the area of the present survey the chart is based on surveys discussed in the foregoing paragraphs and on B.P.

26964 of 1933 (National Paper Products Co.). The present survey indicates a shoaling of 1 to 5 feet in the area off the wharf in Lat. 48° 05.6, Long. 122° 47.7 shown as dredged to 30 feet on the blueprint. The area inside the main face of the wharf, shown on the blueprint as dredged to 10 feet, is indicated on the chart by two 10-~~feet~~^{fathoms} soundings. In view of the inadequate development inside the wharf face on the present survey, these 10 foot soundings should be retained on the chart. The remainder of the area covered by the blueprint should be charted from the present survey: ~~of the area.~~

b. Aids to Navigation.

Charted positions of floating and fixed navigational aids in this area originate with L. H. N. to M. 17 of 1934. Differences of 20 to 30 meters between charted positions and positions obtained on the present survey are noted. Because of their greater accuracy, the positions on the present survey should be charted. No changes in location are recommended as the aids adequately mark the features intended.

9. Field Plotting.

The field plotting was very good.

10. Additional Field Work Recommended.

The survey is complete except as noted in paragraphs 2 and 5, this review.

11. Superseding Old Surveys.

Within the area covered the present survey supersedes the following surveys for charting purposes:

H-333 (1852) in part.
 H-405 (1853) in part.
 H-434 (1854) in part.
 H-1729 (1885-6) in part
 T-2071 (1891) in part (hydrography)
 T-2072 (1891) in part (hydrography)

12. Reviewed by J. A. McCormick, September 21, 1937.
 Inspected by A. L. Shalowitz.

Examined and approved:

C. K. Green, *C. K. Green*
 Chief, Section of Field Records. *Acting* Chief, Division of Charts.

W. E. L. Peacock
 Chief, Section of Field Work.

K. T. Adams
 Chief, Division of Charts.
G. H. S.
 Chief, Division of H. & T.

Applied to chart 6405 1/3-38 g.H.S.