

# F00064

F00064

NOAA FORM 76-35A	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE	
DESCRIPTIVE REPORT	
Type of Survey .....	Field Examination
Field No. ....	
Registry No. ....	F00064
LOCALITY	
State .....	Washington
General Locality .....	Puget Sound
Sublocality .....	Shilshole Bay
.....	
<u>1948</u>	
CHIEF OF PARTY	
.....	
LIBRARY & ARCHIVES	
DATE .....	

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date shown in the new format is the actual date of survey. This material was previously registered as: FE No.1 1948

# FE No. 1

Diag'd. on diag. ch. No. 6450

# 1948

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC INVESTIGATION

of

SHILSHOLE BAY, PUGET SOUND, WASHINGTON

Ship EXPLORER, F.B.T. Siems, Comdg.

1948

Surveyed by G.C. Mast

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1948

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A. INSTRUCTIONS:

Letter to Supervisor, Northwestern District, dated 26 December 1947, reference 22-sro, D-1-NW.

B. LIMITS:

The investigation includes the bar shown on the accompanying aerial photographs near the Fort Lawton shore of the Shilshole Bay entrance channel, and the vicinity of the discharge end of the outfall sewer off Fort Lawton.

C. CONTROL:

Triangulation stations West Point Lighthouse 1934, Canal Entrance Light 1934, and Topographic Signal Big were recovered. All other signals used were located by hydrographic cuts from the above-listed signals.

D. VESSEL AND EQUIPMENT:

Hydrography was accomplished with the Ship PATHFINDER's Launch No. 4, equipped with 808 Fathometer No. 46. All soundings were recorded and read on the foot scale.

E. CONTROL OF HYDROGRAPHY:

Three-point sextant fixes were used to control all the hydrography.

F. TIDES:

Predicted tides were used to reduce the soundings for the boat sheet. One foot was subtracted from all soundings to correct for the bar checks on the fathometer.

G. COMPARISON WITH FORMER SURVEYS:

A comparison with hydrographic survey sheet No. H-5724, shows that filling has taken place between the zero soundings on the old survey and the low-water line in the vicinity of the bar.

The launch used drew 3 feet of water and there was three feet of tide at the time the work was accomplished. The launch could not be run across the bar. From position 110-a the launch was run as close to the bar as possible to position 112-a, then as close to the bar as possible down the east side from position 114-a to position 116-a. Most of the area between these lines is bare at low water.

The investigation around the outlet of the outfall sewer showed very little change if any. No serious shoaling has taken place in the immediate vicinity. (See Review)


H. ADEQUACY OF SURVEY:

The survey is considered complete and adequate for the chart revision of the two spots investigated.

Respectfully submitted

  
G. C. Mast  
Lt. Comdr., USC&GS

Approved and forwarded:

  
F.B.T. Siems, Captain USC&GS  
Commanding Ship EXPLORER

F. E # 1, 1948

22-sro

D-1-NW

26 December 1947

To: Supervisor, Northwestern District  
U. S. Coast and Geodetic Survey  
400 Insurance Building  
Seattle 4, Washington

Subject: Investigation of proposed chart correction.

Receipt is acknowledged of your letter dated 17 December 1947, transmitting three aerial photographs which disclose a sand bar near the Fort Lawton shore of the Shilshole Bay entrance channel. From an examination of the photographs it appears that the sand bar extends from the vicinity of low water line to the charted offshore end of same.

Before a correction is applied to the charts it is desired that a hydrographic investigation be made of the shoal itself and the immediate vicinity. Please arrange to have a hydrographic party from one of the ships obtain soundings in the vicinity of this subsurface feature. It cannot be determined from the photographs whether or not silting effects are taking place near the discharge end of the outfall sewer situated approximately half way between Shilshole Entrance Channel and West Point. It would also be desirable to obtain a few soundings in this area.

The photographs are returned for your information, but it is desired that they be forwarded to this office when transmitting the results of the hydrographic investigation.

Acting Director.

Enclosure.

CC: 2 to Supervisor, N. W. Dist  
1 Seattle Processing Office  
1 Chart Division  
1 Hydrographic Section  
1 Office File

REVIEW OF F.E. NO. 1 (1948)

The purpose and scope of this examination is covered by a letter of instruction, a copy of which is included in the Descriptive Report.

The present hydrography, together with soundings transferred from H-5724 (1935), are plotted on the attached boat sheet. A tracing of the boat sheet showing only the soundings of the present examination is also included. Numerous soundings were traced erroneously and have been corrected. The soundings were reduced from predicted tides.

Inasmuch as this examination was applied to the charts before verification, attention is directed to the following revisions applicable to Charts 6447 and 6445:

- (1) The uncharted 14-ft. sounding at the sewer outfall in lat.  $47^{\circ} 40.19'$ , long.  $122^{\circ} 25.42'$ , was omitted on the tracing. The sounding was partially obscured by other soundings on the boat sheet. *off limit of Chart 6447*
- (2) The charted 14-ft. sounding in lat.  $47^{\circ} 40.46'$ , long.  $122^{\circ} 25.00'$ , was erroneously traced from a 44-ft. sounding on the boat sheet. ✓

The examination reveals that a sand bar now projects out from the foreshore and supersedes in part the 4-to 6-ft. depths on H-5724 (1935). Also the 14-ft. sounding in item (1) above supersedes a detached 21-ft. sounding at the sewer outfall. No other changes in depth in the vicinity of the outfall were noted in a comparison with H-5724. The 51-ft. sounding in prior and present depths of 68-ft. in lat.  $47^{\circ} 40.39'$ , long.  $122^{\circ} 25.30'$ , may be an obstruction or a stray recording; however, the fathogram shows no other similar traces which would indicate stray recordings on this fathogram.

February 6, 1950

G. F. Jordan

Inspected by: R. H. Carstens

2400

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### TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography~~

26 February 1948

Division of Charts: H. W. MURRAY

Plane of reference approved in  
1 volumes of sounding records for

FE. No. 1 (1948)

#### HYDROGRAPHIC SHEET

Locality - Shilshole Bay, Puget Sound

Chief of Party: - F. B. T. Siems in 1948

Plane of reference is mean lower low water, reading  
7.4 ft. on tide staff at Seattle, Washington  
23.0 ft. below B. M. 3 (1927)

Height of mean high water above plane of reference is 10.2 feet.

NOTE: Tide reducers have been entered in red, these have been  
verified. The tide reducers were based on predictions  
at Seattle with no allowance for time and range at the  
working grounds.

Condition of records satisfactory except as noted below:

*E. C. McKay*  
*Section*

Chief, ~~Division of Tides and Currents.~~

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ~~EE~~ No. 1 1948

Records accompanying survey:

Boat sheets .1...; sounding vols. .1...; wire drag vols. 0....;  
bomb vols. 0....; graphic recorder rolls .1...;  
special reports, etc. .1 overlay tracing.....  
.....

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

Number of positions on sheet	.....
Number of positions checked	.....
Number of positions revised	.....
Number of soundings revised (refers to depth only)	.....
Number of soundings erroneously spaced	.....
Number of signals erroneously plotted or transferred	.....
Topographic details	Time .....
Junctions	Time .....
Verification of soundings from graphic record	Time .....

Verification by.....Total time ..... Date .....

Reviewed by.....*J. F. Jordan*..... Time ..... Date *7/6/50*.....





**FEE No. 1  
1948**

PACIFIC AERIAL SURVEYS, INC.  
2022 WESTLAKE AVE., SEATTLE 1, WASHINGTON

Identification No. 6139

Date 3-26-47

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Surveys.

**FEE No. 1  
1948**

A46-218



**FEE No. 1  
1948**

PACIFIC AERIAL SURVEYS, INC.  
2022 WESTLAKE AVE., SEATTLE 1, WASHINGTON

Identification No. A 46-218

Date 1946

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**FEE No. 1  
1948**

A46-225



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Identification No. A 46-225

Date 1946

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**FE No. 1  
1948**



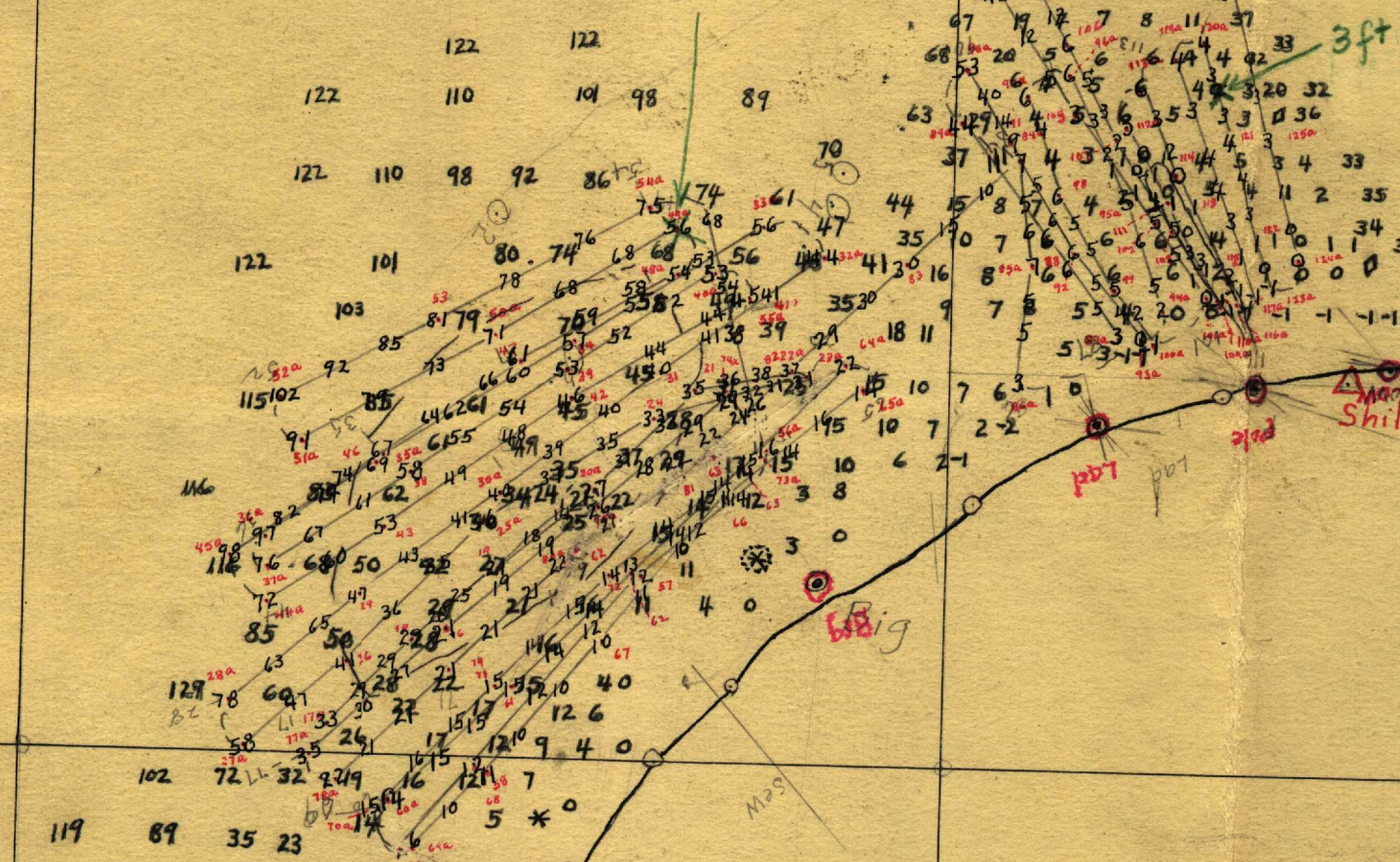
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△ weathervane 1934

△ Canal Ent. Lt 1934

51 ft or possible Obstr.

Shilshole 1934



47°40'

47°40'

FE 1 (1948)  
 Surveyed in 1948  
 Soundings, in feet at MLLW  
 Scale 1:10,000

△ West Point Lt 1934

6447  
6449



# NAUTICAL CHARTS BRANCH

SURVEY NO. F. E. #1, 1948

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
2/26/48	6447	Riggall	Before <del>After</del> Verification and Review
6/5/50	6447	<del>Ed. Howard</del>	<del>After Verification and Review</del>
3-5-48	6450	M. Andrew	Before <del>After</del> Verification and Review
11 May 48	6445	Nichols	Before <del>After</del> Verification and Review Skm 6447 - in part
			Before <del>After</del> Verification and Review
4/12/49	6401	J. M. Gam	Before <del>After</del> Verification and Review Thru chart 6450, C.P. Dwg #11
2-7-50	6449	F. M. Albert	<del>Before</del> <sup>before</sup> After Verification and Review
3-30-50	6445	M. Andrew	<del>Before</del> After Verification and Review <i>July applied</i>
3-31-50	6449	"	<del>Before</del> After Verification and Review " "
"	6450	"	<del>Before</del> After Verification and Review " "
5/15/50	6401	Goodrich	<del>Before</del> After Verification and Review <i>no change to previous application</i>
5/17/63	690-A	Wittmann	" " " "

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.