

4033

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Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: *Alaska*

11-5613

DESCRIPTIVE REPORT.

Hyd. Sheet No. *4033*

LOCALITY:

Port Chatham

Cook Inlet

1918

CHIEF OF PARTY:

Coline R. Hand

DESCRIPTIVE REPORT 4033

To accompany Wire Drag Sheet No. 1, Port Chatham, Cook Inlet, Alaska.
(surveyed in August and September, 1918)

Eoline R. Hand, Hyd. & Geod. Eng'r,
Chief of Party.

This drag sheet covers all of the navigable part of Port Chatham, and the bight between Kelp and Claim points where the dock of the Whitney & Lass chrome mine is located: and it joins sheet No. 2 which covers the water across to Elisabeth Island and out the west entrance. See my orders of June 21, 1918.

Launch dragging by the usual methods was employed over the main portion of Port Chatham and into the above bight as far as its unwieldiness would permit. The remainder of the bight (with particular attention to face of wharf, and the range) was covered with a small 500 ft. apparatus I devised, handled by pulling boats. Each end of this drag was directly beneath stern of a boat, held there by a 75# weight: a line lead from each of these weights to the respective bows: buoys placed at 100 ft. intervals. Description in detail will be found in my season report dated Oct. 27, 1918. This small drag also cleared out the passage on both sides of the known shoal between Chatham Island and station "Keyes". A wider area was covered on the west side, as this side (the one next the main shore) is the one that should be used by vessels.

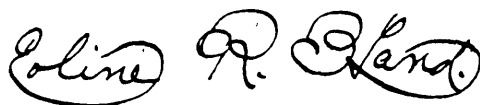
I should like to have dragged just a trifle closer to the west end of Chatham Island, and to have passed a NE & SW width closer to the reef that makes out south of Claim Point, but bad weather was approaching, and both launches were asking for release, so it could not be done. However I feel that all that is actually necessary has been accomplished.

Deep water was dragged at an effective depth well beyond what will ever be required by steamers using this port, and in the shoaler areas the wire passed as close to the bottom as practicable, consistent with verifying the soundings already charted. Through the waters leading up to the wharf I dragged with the small outfit particularly close, sometimes only a foot or so from the bottom, since this cove is so small, and the maneuvering space so restricted, that a navigator needs all the water he may be assured of.

Three or four very small splits were made: they are negligible: not apparent until smooth sheet plotted.

In plotting we did not have at hand a copy of publication No. 21 which I believe explains what colors are to be used. A copy was sent for, but upon being informed by the Washington Office that no more issues were available, we made up the scheme of colors from memory. My officers are confident these are what were used last year.

In this survey no dangers developed.



Hyd. & Geod. Eng'r.

LIST OF STATISTICS
 To accompany wire drag sheet No.1
 Port Chatham, Cook Inlet, Alaska.
 Surveyed in August and September, 1918

4033

Eoline R. Land.
 HYD. & GEOD. ENGR.

Chief of Party .

Date 1918	Letter	Vol.	Angles	Miles statute	Area, sq miles	Boats.
August 27	a	1	62	0.9	<i>Statute</i>	Boat and Cutter.
" 28	b	1	56	0.9		"
" 30	c	1	102	1.9		"
Sept. 17	d	1	35	.5		"
" 20	e	1	44	0.9		"
" 23	f	1	46	0.5		"
August 29	A	2	166	4.9		Launches Rosebud and Chase.
" 30	B	2	63	0.9		Earl
Sept. 1	C	2	40	1.4		Rosebud and Chase
" 12	D	2	36	1.3		
Totals-----			650	14.1	1.5	

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

June 27, 1924.

SECTION OF FIELD RECORDS

Report on Wire Drag Sheet No. 4033

Port Chatham, Alaska

Surveyed in 1918

Chief of Party, E. R. Hand

Surveyed by E. R. Hand and W. D. Patterson. Instructions dated June 21, 1918.

Protracted by W. D. Patterson

Inked by J. D. Crichton

Verified and Area and Depth Sheet by A. L. Shalowitz.

1. The records conform to the requirements of the General Instructions.
2. The methods and character of operations fulfill the requirements of the General Instructions.
3. The depth and extent of dragging satisfy the specific instructions except that where possible the areas should have been dragged to a minimum of 45 feet.
4. There were no shoals discovered on this sheet.
5. The overlaps are sufficient except as shown on the Area and Depth sheet.
6. There are a number of splits in the work. These are clearly shown on the Area and Depth sheet. The two splits at the junction of this sheet with H. 4034 lie in water over 20 fathoms deep. Attention is called to the fact that the outer end of the range line established by this party for entering Chrome Bay passes through the center of a split in work.
7. A 39' drag passed over the 5 $\frac{1}{4}$ ^{fathom} spot shown in Port Chatham, north of black can buoy No. 1. If work is done here in the future the drag should be carried close to Chatham Island on the north and west. Also close to Claim Point where a 4 $\frac{3}{4}$ fathom spot was found by the hydrographic party with deeper water inside. A 26' drag passed close to the eastward of this spot but did not cover it.

8. The field plotting was completed to the extent prescribed in the General Instructions.
9. Changes were made on the smooth sheet at the beginning of strips where the field plotter showed the full bight of the drag in the opposite direction to that in which the drag was proceeding. These were changed to straight lines unless the records indicated that the drag had been set out some time before the first position was actually taken.
10. Reviewed by A. L. Shalowitz, June, 1924.

ADDRESS THE SUPERINTENDENT
U. S. COAST AND GEODETIC SURVEY

FIELD RECORDS (C)

AND REFER TO No 41-ACC

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON May 15, 1919.



Division of Hydrography and Topography: *HCS*

Division of Charts: */*

Tidal reductions have been approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 4033

Port Chatham, Cook Inlet, S. W. Alaska
Eoline R. Hand in 1918.

Plane of reference is
Mean lower low water, reading

6.5 ft. on staff at Port Chatham.

L. P. Shidy

Acting Chief, Section of Tides
and Currents.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

WIRE DRAG SHEET NO. 1.

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4033

State Alaska

General locality Cook Inlet

Locality . . . Port Chatham

Chief of party . . . Eoline R. Hand

Surveyed by . . . Eoline R. Hand and Wm.D.Patterson.

Date of survey August, September 1918

Scale 1 - 5000

Soundings in * * * * *

Plane of reference Mean Lower Low Water

Protracted by W.D.Patterson Soundings in pencil by * * *

Inked by J.D.Crichton . . Verified by

Records accompanying sheet (check those forwarded):

Des. report, _____ Tide books, _____ Marigrams, 1 Boat sheets,

_____ Sounding books, 2 Wire-drag books, _____ Photographs.

Data from other sources affecting sheet

Remarks:

Areas enclosed in

BROWN -	Effective Depth	0 - 19 ft.
YELLOW	" "	20 - 29 ft.
BLUE	" "	30 - 39 ft.
RED	" "	40 - 59 ft.