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Diag. Cht. No. 8502-1

Department of Commerce and Labor
COAST AND GEODETIC SURVEY
O. H. Tittmann
Superintendent.

State:

DESCRIPTIVE REPORT.

Hyd. Sheet No. 3177

LOCALITY:

Nushagak Bay-
Ekuk Pt. to Cape
Nushagak

1909

CHIEF OF PARTY:

W. C. Dibrell

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For general report, see 9th 5 SX 1909 II acc No 64227

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DEPARTMENT OF COMMERCE AND LABOR

Coast and Geodetic Survey

O.H.Tittmann, Sup't.

Hydrographic Sheet No. 3177

(Field Sheet No.1)

Nushagak Bay Ekuk Dr. to Cape Nushagak Upper Part

ALASKA

Steamer EXPLORER

Assistant Walter C. Dibrell, Chief of Party

Begun.....: June 12

Completed..: Sept. 20

1909

Scale 1 - 20 000

Hydrography in charge of: Walter C. Dibrell, Assistant

:A.R.Hunter, Watch Officer.

Projection by S. W. Tay, Aid

Positions plotted on smooth sheet by

A. R. Hunter, Watch Officer

Verified and smoothed by [illegible]

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Hydrographic Sheet No.../.....

OBSRVERS:

Capt. Walter C. Dibrell

Mr. F. H. Hardy

Mr. A. R. Hunter

Dr. R. H. Hawkes

Mr. S. W. Tay, Aid

Mr. W. B. Lunning, Aid

RECORDERS:

H. L. Hansen, Chief Writer

William Duker, Writer 2 cl.

LEADSMEN

Emil Moen, Quartermaster 1 cl.

B. Ramberg, " 2 cl.

John G. Hanson, " 2 cl.

Oscar Hanson, " 2 cl.

TIDE OBSERVER

Ed. Callaway, Seaman

Tide gauge at Clark's Point

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET #1, NUSHAGAK BAY, EKUK POINT TO CAPE NUSHAGAK. SCALE 1 - 20 000.

3177

This sheet takes in the full breadth of the Bay and shows the development of the water area between the limits stated in the title. The sheet joins #2 at the southern end and #6 at the northern.

A small portion of the hydrography of this sheet was done with the ship, the remainder with the launch. The launch lines were run across the channels and are spaced about 200 meters apart. The ship lines were run with the channel in order to minimize danger of grounding.

The area developed is cut by the currents into many ridges and channels. In the bight between Clark Point and Cape Nushagak is a broad mud flat bare at low water. On the south-western part of the sheet, below Coffee Point, is a similar very broad flat uncovered at low water. Flats along the shore bare at low tide were not sounded over. Several detached shoals bare at low water are shown.

The sheet includes the anchorage off Clark Point, a portion of the channel approaching Clark Point from the outside, and the channels leading from Clark Point to Nushagak and to the upper canneries by way of Coffee Point.

All of the positions and soundings have been plotted by the field party but the sheet is transmitted uninked.

Respectfully submitted,

TO the Superintendent,
Coast and Geodetic Survey,
Washington, D. C.

Assistant, C.& G. Survey,
Chief of Party.

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Hydrographic Sheet #...4....

S T A T I S T I C S

1909 Date	Vol.	Let.	Miles (Stat)	Sdgs	Angles	Remarks
June 15	1	A	7.1	191	72	
" 19	1	B	18.3	446	156	"
" 21	1	C	15.0	388	130	"
" 30	1 & 2	D	15.0	495	176	"
July 1	2	E	8.2	200	74	"
" 2	2	F	7.3	192	80	"
" 2	2	G	.0	4	12	"
" 15	2	J	5.8	102	50	"
Sept. 30	2	H-H	4.00	52	20	"
June 12	1	a	18.2	350	150	LAUNCH
" 14	1	b	13.0	331	122	"
" 15	1	c	16.0	380	126	"
" 18	1	d	11.0	234	82	"
" 19	2	e	21.5	528	182	"
" 21	2	f	23.7	576	206	"
July 2	2 & 3	g	14.5	396	154	"
" 5	3	h	28.5	633	212	"
" 6	3	i	28.7	644	202	"
" 7	4	j	18.5	496	152	"
" 9	4	k	6.5	249	74	"
" 10	4	l	23.0	609	188	"
" 13	4	m	3.5	104	36	"
" 26	10	w	27.0	741	222	"
Aug. 3	10	y	21.5	585	180	"
" 23	15	g'	20.0	657	190	"
Sept. 14	15	r'	22.0	562	206	"
" 18	21	u'	13.0	366	108	"
27	9	27	410.8	10331	3562	

AREA 410.3 sq. stat. miles

ADDRESS ALL COMMUNICATIONS TO
"SUPERINTENDENT, COAST AND GEODETIC SURVEY,
WASHINGTON, D. C."

VEC

Department of Commerce and Labor
COAST AND GEODETIC SURVEY
Washington

September 21, 1910.

Mr. A. T. Mosman,

Acting Assistant in charge of Office.

Sir:

The planes of reference, tide reducers, and reduced soundings have been verified for the 15 following volumes of soundings:

1 vol. for Hydro. Sheet 3176, Nashagak Bay, Alaska, 1909
12 vols. " " " 3180 " " " "
2 " " " " 3181 " " " "

These are all by Asst. W. C. Dibrell, and the 12 volumes for sheet 3180 have already been turned over to the Drawing Section.

I think it my duty to inform the Office that on the following days <u>soundings</u> were made by the party of Asst. Dibrell, without any readings of the tide staff:

June 12,1909	July 8,1909	Aug.12,1909	Aug.31,1909
18	9	14	Sep. 4
19	10	20	6
30	16	24	7
July 2	24	25	8
5	30	26	9
6	Aug. 5	27	21
7	11	30	

For the above dates the soundings were reduced to <u>predicted tides</u>, which on account of the large range may be occasionally out 4 to 6 feet from what observation would have been. This great uncertainty in predicted heights is unavoidable when the tide rises 3 or more feet in an hour; for a small error in time, makes

a large error in height. There appears to have been no reason why the tide staff was not read on these dates, at least no statement is given in the record books.

Respectfully yours,

L. P. Shidy

Chief of Tidal Division.

V.E.C.
Aug.2,1910.

HYDROGRAPHIC SHEET NO.3177.

Nushagak Bay, Ekuk Point to Cape Nushagak, Alaska,
by Asst. W.C.Dibrell in 1909.

TIDES.

	Clark Point ft.
Mean lower low water, or plane of reference on staff	1.9
Lowest tide observed " "	-0.2
Highest " " " "	24.0
Mean range of tide	15.2

Hyd. Sheet No. 3177 Oct. 1, 1910.

The area covered by this survey is well developed.

There are a number of bad crossings on the sheet which is probably due to ~~the fact~~ that on a number of days no tide staff readings were taken, the soundings being reduced to predicted tides.

H L Simons