

# 7093

Diag'd. on Diag. Ch. No. 8502-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. PF-C-46 Office No. T-7093

### LOCALITY

State Alaska

General locality Naknek River

Locality Entrance To Morakas Point

1946-'47

CHIEF OF PARTY

R. F. A. Studds

LIBRARY & ARCHIVES

DATE Jan. 12, 1949

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# 8602

T-7028, 61

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

T7093

Each Topographic and Graphic Control Sheet, and each Air Photographic Drawing should be accompanied by this form, completed so far as practicable, when forwarded to the Washington office.

REGISTRY No. T-7093

Field No. PF-C-46

Scale 1:10,000

State Alaska General locality Bristol Bay NAKNEK RIVER

Specific locality ~~Naknek River~~, Entrance to Morakas Point

Dates: Survey began 12 September 1946 Completed 28 July 1947

Photography Complete, Supplemented by ground surveys to

Project No. CS-327 Instructions dated 20 June 1946

Vessel } or PATHFINDER Chief of party R.F.A. STUDDS  
Party } H.C. Applequist

Field work by Fair J. Bryant Office work by Fair J. Bryant

Final inking by Fair J. Bryant

Ground elevations } in feet above { M. H. W.  
~~Treetop elevations~~ } { ~~xx~~ }

Contours } by { Planetable } Interval \_\_\_\_\_ ft.  
Approximate contours } { Multiplex }  
Form lines } { \_\_\_\_\_ }

REMARKS Additional detail to be obtained from air photographs

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1.

DESCRIPTIVE REPORT  
TO ACCOMPANY T-7093 (1946-47)  
TOPOGRAPHIC SHEET FIELD NO. PF-C-47

PROJECT: Field work was done under instruction dated 20 June 1946 for Project CS-327. ✓

LOCALITY: The survey on this sheet covers the Naknek River from the entrance (Long. 157°-04.0') to Morakas Point (Long. 156°-56.0'). ✓

SCALE: 1:10,000

GENERAL DESCRIPTION:

Both banks of the river are lined with low bluffs varying in height from about 100 to about 40 feet. Variation in height is irregular without uniform gradation. The bluffs are composed of a fine, sandy soil which readily erodes. Dense alder thickets line the crests but extend only a short distance inland. In places, the growth of alders extends down the face of the bluff. Where this does not occur there is considerable erosion and the crest sloughs away at an estimated rate of about 1 foot a year. The bluffs are broken at intervals by swales, invariably along the course of a stream of some size and usually marked by marshland along the river. The beach, inshore of the High Water Line, is narrow and sloping and on the higher tides the water washes the foot of the bluffs. The character of the beach is varied but rocks, gravel and sand, interspersed with and sometimes overlaid by mud formed by fine, volcanic ash. There are areas of considerable extent where the beach is composed of this mud which is impassable on foot and similar to quicksand in effect. The character of the beach has been indicated on the sheet. ✓

The portion of the river within the limits of this sheet contains extensive bars and flats of mixed sand, gravel and mud. There appears to be considerable shifting of these bars from year to year. Few offshore rock were noted in this section. ✓

There are two settlements on this section of the river, Naknek on the North bank and South Naknek on the South bank. Both of these settlements have grown-up around canneries. In addition, there are two canneries on the South bank between South Naknek and the river entrance and two upstream, on the North and one on the South bank. All of the wharves and docks dry out at low water. ✓

The area inshore of the bluff line is rolling tundra and muskeg with numerous streams, ponds and marshy areas. Except for the tundra moss and tall grass, vegetation is sparse inland. There are scattered alder, often single, on the higher ground. ✓

GENERAL DESCRIPTION (Cont'd.): The features described below are not shown on the present survey. They appear on the air photographs covering the area.

On the South bank a road, identifiable on the air photographs, extends from South Naknek to the cannery at the river entrance  
 T-7036a(1946)(Sheet PF-A-46). \* A foot path, partially identifiable on the air photographs, extends from South Naknek to the Warren Cannery of Pacific American Fisheries (Long. 156°-56.7'). On the ~~South~~ North bank a road, identifiable on the air photographs, extends from Naknek to the Red Salmon Cannery of the Red Salmon Canning Co. (Long. 156°-58.5'). A winter trail, also identifiable on the air photographs, passable for light, tracked vehicles during the winter months extends from Naknek to Naknek Air Base (Sheet PF-E-47).  
 T-7095 b(1947)

CONTROL: Control for the survey consists of first-order triangulation accomplished by the party of J.C. Tribble during 1946, supplemented by third-order triangulation accomplished by personnel from the PATHFINDER in 1947. Positions are from unadjusted field computation referred to North American 1927 Datum.

CHRONOLOGY AND DETAILS OF SURVEY:

Field work was begun during September 1946 and was carried to (Long. 157°-00.3') on the South bank and to (Long. 157°-00.6') on the North bank. Work on the remainder of the sheet was accomplished during July 1947. The junction between the two seasons work was satisfactory.

Only standard topographic method were used. ~~On account~~ <sup>Because</sup> of the density of available control, only two short traverses were made, the remainder of the work was accomplished from positions established by triangulation or by 3-point fixes. The traverses closed within allowable limits and the closing errors were distributed by standard methods.

The sheet joins PF-A-46 (1:20,000) to the West and PF-G-47 (1:10,000) to the East. The junctions were satisfactory.  
 T-7036a(1946) T-7094(1947)

MAGNETIC DECLINATION:

Magnetic meridians were drawn at a set-up at station A.P.A. Diamond "O" Tanks, 1946, in 1946 and at set-ups at Stations Bump 1947, Cove 1947, and Hole 1947 in 1947. Some variation in the declination was noted but there is apparently no local disturbance. Declinatoire No. 163, used in 1946, was standardized in 1947 and found to have an error of - 0°.3. Declinatoire No. 195, used in 1947 was standardized in 1948 and found to have no measurable error.

GEOGRAPHIC NAMES:

A complete investigation of geographic names was made and is covered in a separate report. Local or native names were obtained for all important features.

\* A winter sled trail, also identifiable on the air photographs, extends from South Naknek to Savonoski Indian Village (Sheet (PF-G-47)).  
 T-7094(1947)

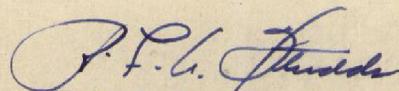
GEOGRAPHIC NAMES (Cont'd.):

Previously charted geographic names appearing on the sheet which were verified are as follows:

Cape Suw<sup>o</sup>rof  
Naknek River

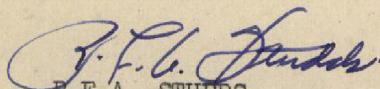
Local or native names of features not previously charted which appear on the sheet are as follows:

Naknek  
South Naknek  
The Hole  
Coffee Point  
Boat Creek  
Pacific Creek  
Morakas Point



Fair J. Bryant  
Lieut., U.S.C.&G.S.  
Topographer

APPROVED:



R.F.A. STUDDS  
Comdr., U.S.C.&G.S.  
Chief of Party

2 Annexes:

- (1) List of Plane Table Positions.
- (2) Landmarks for charts.

ANNEX 1: List of Plane Table Positions

Object	Latitude	D M Meters	Longitude	D P Meters	Remarks
NW gable of highest bldg. A.P.A. Diamond "O" Cannery	58° 42'	1320	157° 03'	276	Apex
High point of hill.	58° 41'	395	157° 01'	964	Ground
Tallest radio mast, A.P.A. Diamond "NN" Cannery.	58° 42'	1724	156° 59'	935	Finial
Point of bluff.	58° 42'	1422	157° 01'	732	Ground Overhang

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

**NONFLOATING AIDS OR LANDMARKS FOR CHARTS**

TO BE CHARTED  
~~TO BE DELETED~~

STRIKE OUT ONE

Seattle, Washington 18 March 1946

I recommend that the following objects which have *(have not)* been inspected from seaward to determine their value as landmarks, be charted on *(deleted from)* the charts indicated.

The positions given have been checked after listing by Pair J. Bryant

*Part of L. 470 (1948)*

**R.P.A. STUDS**

Chief of Party.

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED	
				LATITUDE		LONGITUDE								DATUM
				°	'	°	'							
Cable	Alaska	NW gable of highest building at A.P.A. Diamond "O" Cannery		58 42	1320	157 03	276	NA1927	Topo PP-C-46	8-12-47	X		New Charts	
HILL		Highpoint of NE one of two low hills with saddle between		58 41	395	157 01	964	NA1927	Topo PP-C-46	8-12-47			New Charts	
Point of Bluff		High point of face of bluff upstream from CRPA Cannery		58 42	1422	157 01	732	NA1927	Topo PP-C-46	8-12-47			New Charts	
Tallest Radio Mast		Top of tallest radio mast (of two) at APA Diamond NW Cannery		58 42	1724 <sup>2</sup>	156 59	935	NA1927	Topo PP-C-46	8-12-47			New Charts	
Tank		Water tank at CRPA Cannery (Columbia River Packers Assn., Tank, 1946)	Tank	58 42	1286.5	157 02	83.9	NA1927	Triangulation JGT 46	1946	X X		8802 New Charts	
Tank		Water tanks at APADiamond "NW" Cannery (Alaska Packers Assn., Tanks, 1946)	Dia	58 42	1782.1	156 59	908.7	NA1927	Triangulation JGT 46	1946	X X		8802 New Charts	

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

DIVISION OF CHARTS

REVIEW SECTION -- NAUTICAL CHART BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. T-7093

FIELD NO. PF-C-46

Alaska, Naknek River, Entrance to Morakas Point  
Surveyed in Sept. 1946, July 1947      Scale 1:10,000  
Project No. CS-327

Plane Table Survey

Aluminum Mounted

Chief of Party - R. F. A. Studds  
Surveyed by - H. C. Applequist and F. J. Bryant  
Inked by - F. J. Bryant  
Reviewed by - T. A. Dinsmore, April 12, 1949  
Inspected by - R. H. Carstens

1. Adjoining Surveys

Adequate junctions were effected with T-7094 (1947) on the east and T-7036a (1946) on the west.

2. Comparison with Prior Surveys

There are no prior surveys of the area by this Bureau.

3. Comparison with Preliminary Chart A-3370 (Print date 5/24/48)

a. Topography

The charted topography originates with the present survey prior to review. No revisions are necessary.

b. Aids to Navigation

The present survey position of the fixed aid to navigation is in substantial agreement with the charted position and adequately marks the feature intended.

c. Magnetic Meridian

Declinatoire observations of the magnetic meridian are in good agreement with the charted value.

4. Condition of Survey

- a. The survey was neatly inked and conforms to the requirements of the Topographic Manual.
- b. The Descriptive Report covers all matters of importance.

5. Compliance with Project Instructions

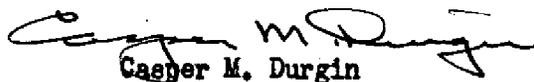
The survey adequately complies with the Project Instructions.

6. Additional Field Work

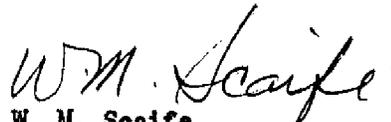
This is an excellent survey and no additional field work is required. Additional topographic detail in this area is being compiled on air photographic surveys T-9068 and T-9069.

Examined and approved:

  
H. R. Edmonston  
Chief, Nautical Chart Branch

  
Casper M. Durgin  
Chief, Division of Charts

  
K. G. Crosby  
Chief, Section of Hydrography

  
W. M. Scaife  
Chief, Division of Coastal Surveys

GEOGRAPHIC NAMES

Survey No. **T7093**

Name on Survey	Source										
	A	B	C	D	E	F	G	H	K		
<u>Alaska</u>			(for title)								1
<u>Bristol Bay</u>			" "								2
											3
<u>Naknek River</u>									USGB		4
<u>Cape Suworof</u>									"		5
<u>Naknek</u>									"		6
<u>The Hole</u>											7
<u>South Naknek</u>									USGB		8
<u>Boat Creek</u>											9
<u>Coffee Point</u>											10
<u>Pacific Creek</u>											11
<u>Morakas Point</u>											12
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Names underlined in red are approved. 4/13/49 L. Heck

