6799 WIRE DRAG

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic, Wire Drag
Field No. WD1004 Office No. H 6799
LOCALITY
State Maine
General localityKennebec River
Locality Cox Head to Bluff Head
194 2
CHIEF OF PARTY
C.D.Moa ney
LIBRARY & ARCHIVES
DATEMarch 25, 1943

B-1870-1 (1

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

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. WD 1004

REGISTER NO. $H6799$
State MAINE WIRE DRAG
General locality Kennebec River
Locality Cox Head to Bluff Head
Scale 1:10,000 Date of survey Aug - Oct
Vessel LYDONIA (MARINDIN & RODGERS)
Chief of Party
Surveyed byC. R. Reed
Protracted by A. B. Brownell
Soundings penciled byC. R. Reed
Soundings in fathoms feetFeet
Plane of reference Mean Low Water
Subdivision of wire dragged areas byC. R. Reed
Inked byC_R_Reed
Verified by
Instructions dated May 7, 1941, March 11, 1942 , 19
Remarks:

U. S. GOVERNMENT PRINTING OFFICE

to accompany

WIRE DRAG SHEET FIELD NO. 1004

KENNEBEC RIVER, MAINE

COX HEAD TO BLUFF HEAD

SCALE 1:10,000

PROJECT CS-265

1942

LYDONIA SUB-PARTY

LAUNCHES MARINDIN, RODGERS & NO. 101

INSTRUCTIONS:

Instructions for the work executed on this sheet are the original project instructions dated May 7, 1941 and supplemental instructions dated March 11, 1942.

SURVEY METHODS:

Standard dual control wire drag methods were employed using the wire drag launches MARINDIN and RODGERS. Lift tests were made from tender No. 101 using the floating type of tester which has been standard for several years. On G day and part of J day, when the tender failed to run, a lift greater than that normally obtained was assumed and applied.

The position of the rock bare $2\frac{1}{2}$ feet at mean low water 101/43'48.26' southeast of Bald Head was determined by "marking" the guide launch positions when the rock was on range with one of the objects of the fix. Removed from sheet. More accurate determination on T-6911 (1942)

During a part of the work on this sheet a depth recorder installed on the guide launch was used. This proved to be a great time saver in avoiding shoal water at the edge of the channel. In attempting to drag to a depth of over 27 feet (the U. S. Engineers project depth) the ends of the drag were continually grounding prior to the installation of the depth recorder.

Prior to D day a rock drill barge was operating on the ledge near the south edge of the channel opposite Lee Island (Latitude 43° 49.55', Longitude 69° 48.05'). Cables holding the barge in place prevented dragging until D day. The sharp edges of blasted rock in this area cut the ground wire when dragging was attempted. A wire drag survey of this area should be made after blasting and dredging is completed.

Drag coverage here is about d as good as can be expected.

The current in the river made dragging impossible a large part of the time. Soundings on groundings were rared due to the fact that the current pulled the drag over the ground with the weight bumping or parted the drag when it went fast aground. The veight sounding by the tender at Latitude 43° 50.15' opposite signal "Ram" was located by cuts from the drag vessels. 29 removed from sheet. Better determination on 11-6802 (1942).

CHANNELS:

The channel was dragged to a least effective depth of 27.5 feet except as noted below under Splits and Unfinished Work.

GROUNDINGS:

The drag grounded only in depths consistent with the contemporary hydrographic surveys.

DISCREPANCIES:

The deepest channel lies on the wrong side of the can lat. 43°46.6' buoy north of Dix Island. This channel was not dragged. The long. 69°47.4' current interfered seriously with making the necessary sharp turns with the drag. Buoy is about midway between 30-ft. curves, and about 100m. from reef. It is not on wrong "side of channel but could be moved a little closer to the reef.

At position 23K (Latitude 43° 49.67' Longitude 69° 47.97')

a 31.5 foot effective drag fouled while picking up the drag and H-6802 (1942) a position was taken from the bow of the guide launch with the ground wire leading straight down. With 40 feet of leadline cleared with no bottom was obtained. It is probable that a section of ground drag depth. wire had sufficient slack to foul the bottom while the launches Disregard. were stopped preparatory to picking up the drag.

SPLITS AND UNFINISHED WORK:

Additional dragging is necessary to complete this survey. Not recommended. Dredging operations and the end of the field season combined to prevent completion of the work planned.

Splits appear at the following points:

			2	<u>Longitude</u>	Latitude
(1942)	H-6802	on	50 ft.	69° 48.08'	43° 49.651
(1942)	H-6803	2)	- 75 ft.	69° 48.221 69° 47.381	43° 49.51 43° 46.71
•••	., .,	v	2 37 tt.	69° 47.38'	43° 46.71

The channel north of Dix Island (see "Discrepancies") should be wire dragged.

The west channel west of Perkins Island should be dragged.

Parker Flats should be dragged.

The area where ledge was removed south of Pettis Rocks (see fourth paragraph under "Survey Methods") should be wire dragged after the loose rock has been removed by dredging.

The main channel was fairly well covered. Additional work not recommended.

WIRE DRAG

There is insufficient overlap at Latitude 43° 49.08' Coverage Longitude 69° 48.31'. This is in 40 feet of water on the contemporary hydrographic survey and it should not be necessary to wire drag further.

TIDES:

Tides used south of Perkins Island were from the Fort Popham portable tide gage. North of Perkins Island the tides were from the Phippsburg portable tide gage.

STATISTICS:

Statute miles of wire drag
Area of wire drag (sq. st. mi.)

Number of soundings

26.8

1.3

2.5

Respectfully submitted,

Clavener R. Reed

Clarence R. Reed H. & G. Engineer U.S.C.&G. Survey

Approved and forwarded

C. D. Meaney Chief of Party

*

ADDENDUM

Sheet W.D. 1004 (Field)

DISCREPANCY:

A 20 ft. buoy "bumping" on "E" day plots at Latitude 43°49.97' and Longitude 69°47.80' in an area which was dragged to 31 feet on "K" day. Plotting of pos. 21 E corrected. 20 ft. 13 outside the 31 ft. strip and is consistent with depths on H-6802 (1942) SMOOTH PLOTTING:

This sheet was processed at the Norfolk Processing Office.

Respectfully submitted,

Isadore M. Zeskind

Associate Cartographic Engineer

Norfolk, Va. March 24, 1943.

Approved and forwarded.

Paul C. Whitney
Supervisor Southeastern District

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. H6799

WIRE DRAG

Records accompanying survey:	HINE DUYA
Boat sheets .2; sounding vols2.;	wire drag vols. 4;
bomb vols. A; graphic recorder rolls	s ⁰ ;
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Review by J.A. McCormick Time	20 Date Nov. 3, 1943.

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MEMORANDUM IMMEDIATE ATTENTION

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FORM 718
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
- Ed. Feb. 1935

TIDE NOTE FOR HYDROGRAPHIC SHEET

May 5, 1943.

Division of Hydrography and Topography:

Division of Charts: Attention: H. R. Edmonston

Tide Reducers are approved in wire drag 6 volumes of sounding/records for

HYDROGRAPHIC SHEET 6799

Locality Cox Head to Bluff Head, Kennebec River, Maine

Chief of Party: C. D. Meaney in 1942
Plane of reference is mean low water reading 3.2 ft. on tide staff at Phippsburg 19.3 ft. below B.M. 1
2.9 ft. on tide staff at Fort Popham 14.8 ft. below B. M. 1

Height of mean high water above plane of reference is 8.0 feet at Phippsburg; 8.3 feet at Fort Popham.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

S. S. GOVERNMENT PRINTING OFFICE

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6799 W.D.

Field No. W.D. 1004

Maine; Kennebec River; Cox Head to Bluff Head Surveyed August - October 1942; Scale 1:10,000 Instructions dated March 11, 1942 (Project C.S. 265)

Wire Drag

Dual Control

Chief of Party - C. D. Meaney
Surveyed by - C. R. Reed
Protracted by - A. B. Brownell
Subdivision of dragged areas by - C. R. Reed
Inked by - C. R. Reed
Verified by - G. F. Jordan
Reviewed by - J. A. McCormick
Inspected by - H. R. Edmonston, November 3, 1943

1. Shoreline and Signals

Shoreline and topographic signals are from topographic maps T-5972 and T-5973 and from graphic control surveys T-6910 and T-6911 of 1942.

2. Adjoining Wire Drag Surveys

A satisfactory junction was effected with H-6780 (1942) W.D. on the south.

3. Hydrographic Surveys

H-6802 (1942), H-6803 (1942)

With effective depths generally ranging between 27 and 32 feet, the drag was constantly scraping bottom on both sides of the main channel. Effective depths in all such cases were consistent with the soundings on H-6802 and H-6803. In Lat. 43°46.7', Long. 69°47.3' there is a decided conflict between effective drag depths of 28 and 31 feet and soundings of 26 and 27 feet on H-6803. It is probable that the drag was towed well up on the shoal before its progress was noticeably impeded.

The few soundings obtained by the drag party were unimportant and, along with the groundings, were removed from the smooth sheet. One sounding of 14 feet fell in depths of 30 feet on H-6803. The office verification proved conclusively that one of the two angles which fixed its position was 9 degrees in error. The revised plotting placed it in depths of 13 and 14 feet.

4. Comparison with Chart 314 (Print of May 27, 1943)

Conflicts between charted depths and effective drag depths are of the same order as those between drag depths and soundings of the hydrographic surveys discussed in the preceding paragraph.

5. Compliance with Project Instructions

Satisfactory.

6. Additional Field Work Recommended

The descriptive report recommends several items of additional work. The drag party has done a commendable job of covering most of the main channel from 30-ft. curve to 30-ft. curve and it is not considered necessary to undertake additional work at this time.

Examined and approved:

Chief, Surveys Branch

Chief. Division of Charts

Chief, Section of Hydrography Chief, Division of

hief, Division of Coastal Surveys applied to Ch 1204- JEV 3/5/45

Applied to Ch 1204- JEV 3/5/45

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Additional work

Form 804

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC -WIRE DRAG

Field No. Office No. H-6799

LOCALITY

State MAINE

General locality KENNEBEC RIVER

Locality PARKER FLATS

CHIEF OF PARTY

L. C. Johnson J. H. Brittain

LIBRARY & ARCHIVES

B-1870-1 (1)

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

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 H-6799
REGISTER NO.
State
General locality KENNEBEC RIVER
Locality : PARKER FLATS
Scale 1-10,000 Date of survey July - August , 1944
Vessel s WAINWRIGHT & HILGARD
Chies of Party L. C. Johnson & J. H. Brittain
Surveyed by L. C. Johnson & J. H. Brittain
Protracted by
Soundings penciled by
Soundings in *Tathous feet
Plane of referenceMean_Low_Water
Subdivision of wire dragged areas by
Inked by
Verified by
March 11, 1944 Instructions dated March 11, 1942; March 16, 1943;, 19
Remarks: Additional work on sheet H-6799, in 1944

S. GOVERNMENT PRINTING OFFICE

DESCRIPTIVE REPORT

to accompany

SHEET H 6799 (WIRE DRAG)

ADDITIONAL WORK IN 1944

AUTHORITY:

This wire drag survey was executed under Supplemental Instructions, Project CS 265, dated March 11, 1942, March 16, 1943, and March 11, 1944.

LIMITS:

This survey is additional wire dragging in the Kennebec River from south of Parker Head to south of Squirrel Point. This dragging covered the channel on west side of the shoal to west editor of Perkins Island, and widening of the area around Parker Flats.

METHODS:

This wire drag was done with the WAINWRIGHT as guide launch, ~ the HILGARD as end launch and launch 101 as tender.

Standard dual control methods were used. The drag strips were controlled by three-point fixes on shore objects. Lift was determined on most sections of the drag by tests taken from the tender, using a graduated rod coated with a mixture of white lead and tallow, suspended from a float by means of a graduated stranded 1/8" wire.

Due to strong tidal currents the dragging was done only at

or near slack water.

CONTROL:

Existing triangulation stations and stations located by graphic control by the LYDONIA in 1942 furnished adequate control for this survey.

COMPARISON WITH HYDROGRAPHY AND CHARTED SOUNDINGS:

The soundings were already in the boat sheet and no changes in those charted are recommended.

On pos. 20 A day, it was noted that 4 & F buoys grounded and cleared. Though the effective depth was only 17 ft., the lift was 42 ft., giving a depth of upright of 212 ft. It is believed the depths of about 20 ft. shown on the hydro sheet here are correct. The end launch ran its fathometer here and did not obtain anything shoaler than 20 feet.

The same spot was hung at 55 A day, effective depth of 16 ft., 1 lift was 42 ft., and recommendations in above paragraph still apply. The area was covered by one strip, 1 - 6 B, effective depth of 142 ft. and in opposite direction, 8 - 11B, with effective depth of 142 ft.

DESCRIPTIVE REPORT

to accompany

SHEET H 6799 (WIRE DRAG

ADDITIONAL WORK IN 1944

TIDES:

Auto-portable tide gages were established at Phippsburg and Fort Popham, to furnish reducers for reducing the drag depths to mean low water. The data from the Phippsburg Gage was used for the work north of the Blue line on the boat sheet west of Perkins Island, and data from Fort Popham gage for the work south of above line.

L. C. Johnson

John H. Brittain

STATISTICS SHEET 6799 (W.D.) (ADDITIONAL WORK 1944)

Date	Day	No. Positions	No. Soundings	Stat. Mi. Drag Strip
July 26, 1944	A	55	0	4•3
Aug. 4, 1944	В	11	0	0.7
Totals		66	0	5.0

Area Covered 0.7 Square statute miles

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO H 6.79.9

Records accompanying survey:	
Boat sheets; sounding vols; wire d	rag vols;
bomb vols; graphic recorder rolls	• ;
special reports, etc	
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The following statistics will be submitted with rapher's report on the sheet:	the cartog-
Number of positions on sheet	
Number of positions checked %.	
Number of positions revised	
Number of soundings recorded	
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	
Plotting and Verification byJ.A.McCormickTotal time !5 hrs	Date 10/30/44.
Review by J.A. McCormick Timehr.	Date 10/30/44.

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FORM 719
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

September 30, 1944

Division of Hydrography and Topography:

Division of Charts: Attention: H. R. EDMONSTON

Plane of reference approved in l volumes of sounding records for

HYDROGRAPHIC SHEET 6799

Locality Parker Flats, Kennebec River, Maine.

Chief of Party: L. C. Johnson & J. H. Brittain in 1944 Plane of reference is mean low water reading -0.1 ft. on tide staff at Phippsburg 19.4 ft. below B. M. 1

Height of mean high water above plane of reference is 8.0 feet.

Condition of records satisfactory except as noted below:

Chief. Division of Tides and Currents

s. sevanumer remember series 15423

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY REGISTRY NO. 6799 Add:1. Work

Field No. 1004

Maine; Kennebec River; Cox Head to Bluff Head Surveyed in July and August 1944; Scale 1:10,000 Project C. S. 265

Wire Drag

Dual Control

Chief of Party - L. C. Johnson
Surveyed by - L. C. Johnson
Protracted by - J. C. McCormick
Verified and inked by - J. A. McCormick
Reviewed by - J. A. McCormick
Inspected by - H. R. Edmonston, October 30, 1944

Additional area was dragged in the channel west of the 5-ft. ledge in Lat. 43°47.3', Long. 69°47.3'. A split in the original work at Lat. 43°46.7', Long. 69°47.4' was reduced in size but not completely covered. Effective depths are consistent with soundings on H-6802 and H-6803 of 1942. The additional work was well done and satisfies supplemental instructions of March 11, 1944.

Examined and approved:

Chief, Surveys Branch

Chief, Division of Charts

Chief. Section of Hydrography

Chief, Division of Coastal Surveys No Con, to Ch 1204- you 3/5/45

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