

# 7024

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<b>Form 504</b>	
U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE	
<b>DESCRIPTIVE REPORT</b>	
Type of Survey	Hydrographic
Field No. <b>05144</b>	Office No. <b>H-7024</b>
<b>LOCALITY</b>	
State	Virginia
General locality	Chesapeake Bay
Locality	Little Creek
<u>1944 - 45</u>	
<b>CHIEF OF PARTY</b>	
L. C. Johnson & J. H. Brittain	
<b>LIBRARY &amp; ARCHIVES</b>	
DATE	<b>MAY 7 1945</b>

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.

REG. NO.

H7024

REGISTER NO. H-7024

Field No. 05144

State Virginia

General locality Chesapeake Bay

Locality Little Creek

Scale 1/5000 Date of survey Dec. 1944 to April, 1945

Instructions dated Nov. 10, 1944

Vessel WAINWRIGHT & HILGARD

Chief of party L. C. Johnson and J. H. Brittain

Surveyed by J. H. Brittain and G. E. Russell, Jr.

Soundings taken by fathometer, graphic recorder, hand lead, ~~wire~~ pole

Protracted by M. E. Byrd

Soundings penciled by M.E. Byrd

Soundings in ~~fathoms~~ feet at MLW ~~MLLW~~

REMARKS: This sheet was processed in the Hydrographic Section, S.E. District,  
Norfolk, Va.

DESCRIPTIVE REPORT

To Accompany

H-7024

HYDROGRAPHIC SURVEY

FIELD NO. WAHI 05144

LITTLE CREEK, VIRGINIA

AUTHORITY: Supplemental Instructions Project CS 313, dated Nov. 10, 1944.

SCOPE: The project consisted of a survey of the entrance to the channel, a system of lines in the channel to verify the work done by the U. S. Navy Public Works Dept. in 1944, an investigation of a 16 ft. shoal about 800 ft., 317° True from signal ABE, a survey of the area falling between Bn. 7 and Bn. 5 on the Easterly side of the channel, East of the line of telegraph poles, and a survey of the area East of the Pennsylvania R. R. Terminal.

SURVEY METHODS: The sounding was done with a Model 808A fathometer, hand lead, and pole. The channel lines were run with Launch 101, and the inshore work was done with a 16 foot skiff. Bar checks were taken in the morning, at noon, and at the close of work on full days. On partial days they were taken at the start and close of work. Hand lead comparisons were taken on days when hand lead sounding was done. The sounding lines were controlled by sextant fixes and by bearings and distances to objects located by triangulation and graphic control.

COMPARISON WITH PREVIOUS SURVEYS: In general the depths compared very well with the soundings obtained on U. S. Navy Public Works, Drawing No. 13229, dated August, 1944. The 16 foot shoal shown on the above drawing was developed and a sounding of 15 feet at Mean Low Water was obtained. In the area East of the Pennsylvania R. R. Terminal, a channel was dredged to a depth of 10 feet to the ways at the U. S. Coast Guard Reservation. The shoal sounding obtained on Pos. 20-d-Launch 101, has been superseded by sounding on b-day, Launch 101. <sup>60.3897</sup> skiff. 83

TIDES: The tide reducers were computed from a Portable Automatic Tide Gage installed at the U. S. Naval Frontier Base at Little Creek, Va.

Respectfully submitted,

Approved and forwarded:

*L. C. Johnson*  
L. C. Johnson  
Lt. Comdr., C&GS

*G. E. Russell Jr.*  
G. E. Russell, Jr.  
Ensign, C&GS

*J. H. Brittain*  
J. H. Brittain,  
Lt. Comdr., C&GS

STATISTICS  
 SHEET WAHI 5144 (Field Number)

H-7024

Vol. No.	Date	Day Letter	No. Pos.	HL, Pole Sndgs	Stat. Mi. Sndg. Line
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LAUNCH 101

1	Dec 6, 1944	a	147	-	17.7
1&2	Dec 7, 1944	b	113	-	13.9
2	Dec 8, 1944	c	51	-	3.9
2&3	Dec 14, 1944	d	95	-	8.2
3	Dec 20, 1944	e	20	-	1.7
3	Dec 21, 1944	f	66	-	6.1
3	Jan 4, 1945	g	16	57	0.7
3	Apr 5, 1945	h	11	39	0.6

16 FOOT SKIFF

4	Dec 21, 1944	a	8	30	0.4
4	Apr 5, 1945	b	16	67	1.2

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TOTALS			543	193	54.4
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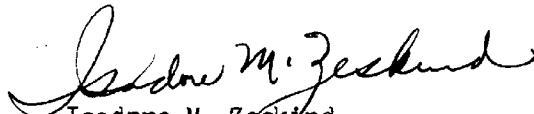
A D D E N D U M

HYDROGRAPHIC SURVEY NO. H-7024

The present survey accomplished by this Bureau ties in with that made by the Naval Operating Base, Norfolk, Va., and is shown on P.W. Drawing No. 13229, dated August 12, 1944. The Naval Operating Base drawing is being forwarded to the Washington Office under separate cover.

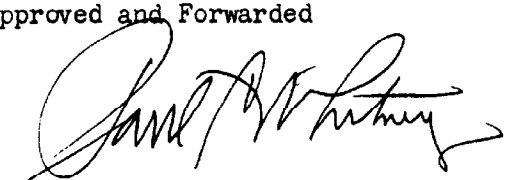
Mean Low Water for the Naval Operating Base survey was based on B.M. # 3, R.R.R., Little Creek, Chesapeake Bay, page No. 65, Tidal Bench Marks, State of Virginia, as being 16.34 feet above M.L.W.

Respectfully submitted,

  
Isadore M. Zeskind  
Cartographic Engineer

Norfolk, Virginia  
May 4, 1945

Approved and Forwarded

  
Paul C. Whitney  
Supervisor SE District

GEOGRAPHIC NAMES

Survey No. **H7024**

Name on Survey	Source											
	A	B	C	D	E	F	G	H	K			
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List				
<u>Virginia</u>			(for title)								v.s. 68	1
<u>Chesapeake Bay</u>			" "									2
<u>Little Creek</u>			" "									3
<u>Little Creek</u>		(village)										4
												5
												6
												7
												8
												9
												10
												11
												12
<u>Naval Frontier Base</u>			(location of tide staff)									13
												14
												15
												16
												17
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												20
												21
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												23
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												26
												27

Names underlined in red appear  
by L. Heck on 8/22/46

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. **H7024**

Records accompanying survey:

Boat sheets **1**...; sounding vols. **4**...; wire drag vols. ....;  
bomb vols. ....; graphic recorder rolls **6**...;  
special reports, etc. ....  
.. **1 Naval Operating Base Drawing - P. W. No. 13229** .....

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

Number of positions on sheet	<b>543</b>	.....
Number of positions checked	<b>10</b>	.....
Number of positions revised	<b>0</b>	.....
Number of soundings recorded	<b>6,000</b>	(approx) .....
Number of soundings revised (refers to depth only)	<b>5</b>	.....
Number of soundings erroneously spaced	<b>6</b>	.....
Number of signals erroneously plotted or transferred	<b>0</b>	.....
Topographic details	Time <b>8</b>	Hrs .....
Junctions	Time	.....
Verification of soundings from graphic record	Time <b>4</b>	.....

Verification by *Henry J. Bozzo* Total time **100** Date *Aug. 19, 1946*

Review by *R. H. Cartens* Time **11** hrs Date *Aug. 22, 1946*

RAC  
K.W.M.

TIDE NOTE FOR HYDROGRAPHIC SHEET

10 May 1945

~~Division of Hydrography and Topography:~~

✓ Division of Charts: Attention: H. W. MURRAY

Plane of reference approved in  
4 volumes of sounding records for

HYDROGRAPHIC SHEET 7014

Locality Little Creek, Chesapeake Bay, Virginia

Chief of Party: L. C. Johnson and J. H. Brittain in 1944-1945

Plane of reference is mean low water reading  
0.3 ft. on tide staff at Naval Frontier Base  
7.9 ft. below B. M. 1

Height of mean high water above plane of reference is 2.5 feet.

Condition of records satisfactory except as noted below:

*Alg* *Ham*  
Chief, Division of Tides and Currents.



DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 7024

FIELD NO. 05144

Virginia, Chesapeake Bay, Little Creek  
Surveyed in December 1944-April 1945 Scale 1:5,000  
Project No. CS-313

Soundings:

Control:

Hand lead  
Sounding pole  
808 Fathometer

Sextant fixes on shore signals

Chief of Party - L. C. Johnson and J. H. Brittain  
Surveyed by - J. H. Brittain and G. E. Russel  
Protracted by - M. E. Byrd  
Soundings plotted by - M. E. Bryd  
Verified and inked by - H. J. Bozzo  
Reviewed by - R. H. Carstens, August 22, 1946  
Inspected by - G. F. Jordan

1. Shoreline and Signals

The shoreline and signals originate with graphic control sheet T-6983 (1944) and quadrangle T-8302 (1944).

2. Sounding Line Crossings

Depths at crossings are in satisfactory agreement.

3. Depth Curves and Bottom Configuration

The survey was limited to the improved channel and the approach to Little Creek. The usual depth curves were satisfactorily drawn.

The bottom is smooth.

4. Junctions with Contemporary Surveys

The junction with H-7089 (194<sup>6</sup>~~5~~) on the northeast will be considered when that sheet is verified. There are no other contemporary hydrographic surveys of the area registered at the present time.

5. Comparison with Prior Surveys

- a. H-3923 (1916-17) 1:30,000  
H-4038 (1918) 1:40,000

These surveys cover the approaches to Little Creek. Agreement with the present survey is within 1 ft. The present survey is adequate to supersede these prior surveys within the common area.

- b. H-4924 (1929) 1:5,000 and 1:10,000

In the approach area to Little Creek this survey is in very good agreement with the present survey. Within the improved channel of Little Creek dredging operations accomplished since the time of the prior survey have increased depths as much as 5 ft. in some areas.

The present survey supersedes this prior survey within the common area.

6. Comparison with Chart 481 (Latest print date 4/6/46)

A. Hydrography

The hydrography charted within the limits of the present survey originates principally with advance information of the present survey shown on bp. 39142, the present survey before verification and review, and with U. S. Navy Public Works bps. 39141 (1942), 38972 (1944) and 40314 (1945). The charted soundings generally agree within 1 ft. with present survey depths with the principal exception of the 18 ft. in lat. 36° 54.97', long. 76° 10.70', falling in present survey depths of 15-16 ft. The 18 is from bp. 40314 showing the results of dredging subsequent to the present survey. Except for bp. 40314 the present survey is adequate to supersede ~~these~~ blueprints within the common area.

B. Aids to Navigation

The present survey positions of aids to navigation are in satisfactory agreement with the charted positions and adequately mark the features intended.

The day beacon in lat.  $36^{\circ} 54.85'$ , long.  $76^{\circ} 10.60'$ , is non existent. This statement is based on verbal information received from J. H. Brittain who was a chief of party of this survey.

*beacon gone*

7. Condition of Survey

The field plotting was accurately accomplished.

The sounding records and Descriptive Report were satisfactory.

8. Compliance with Instructions for the Project

The survey satisfactorily complies with the Instructions except that no bottom characteristics were taken.

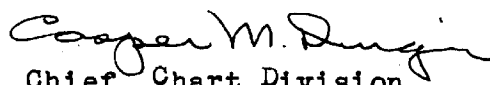
9. Additional Work Recommended

This basic survey is excellent for the purpose intended and no additional work is necessary. Mention is made that the channel covered by this survey is periodically surveyed by the U. S. Navy.

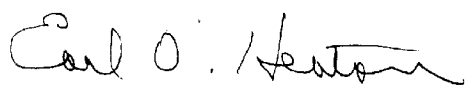
Examined and approved:



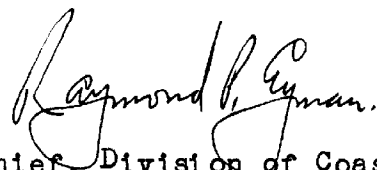
Chief, Nautical Chart Branch



Chief, Chart Division



Chief, Section of Hydrography



Chief, Division of Coastal Surveys

# NAUTICAL CHARTS BRANCH

SURVEY NO. H. 7024

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6/27/45	481	S. P.	Before <del>After</del> Verification and Review <i>Partially Applied.</i>
	73		
9/18/45	78	JTW	Before <del>After</del> Verification and Review <i>Partially applied thru ch 481</i>
			<i>CONSIDERABLE COMPLETE 8/10/47 AFFD. REVIEW</i>
1/31/46	481	J. McGinn	<del>Before After</del> Verification and Review
10/1/47	1222	J. McGinn	<del>Before After</del> Verification and Review
10/20/49	3334	O. W. Wittmann	<del>Before After</del> Verification and Review ( <del>insert</del> )
8/16/56	<i>Reconst.</i> 481	<i>Redrawn</i>	<del>Before After</del> Verification and Review
9-23-59	<i>new limits</i> 3334	A. J. Hoffman	<i>Applied thru ch. 481, and filled in between.</i> <del>Before After</del> Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

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.