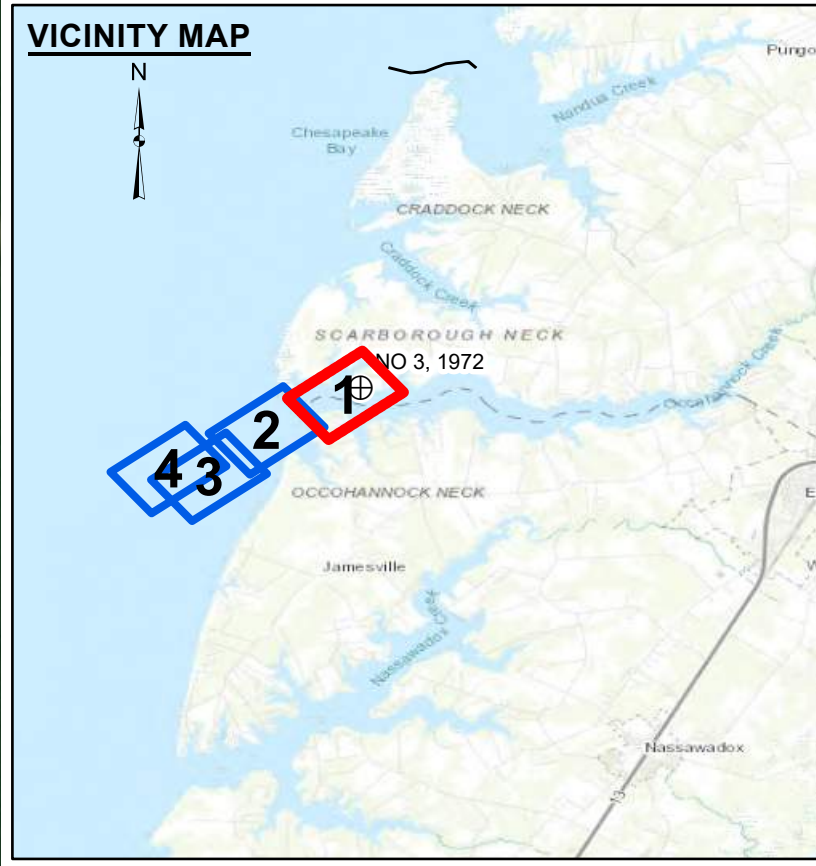
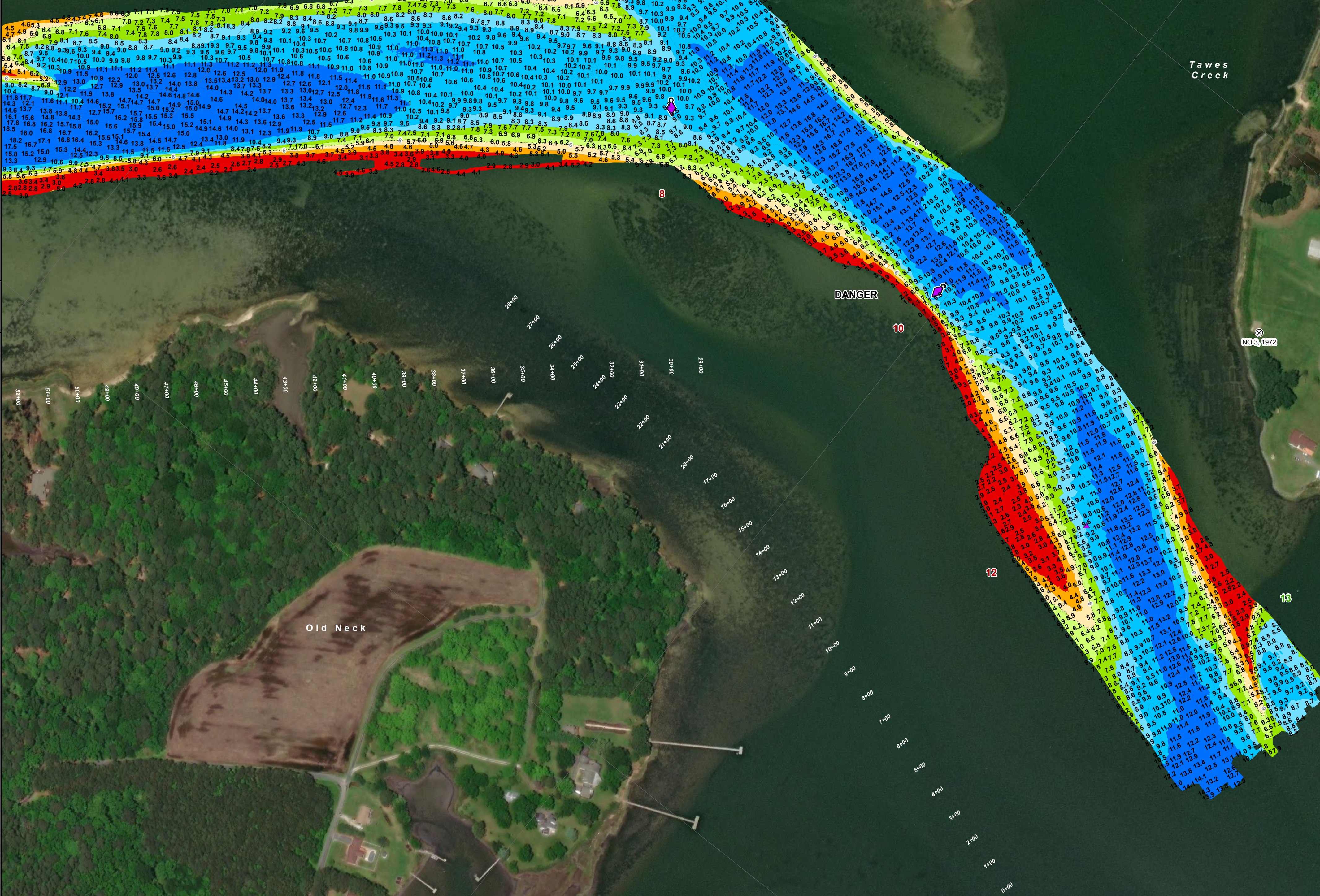


MATCH SHEET 2

Reach: Occohannock Creek
Maintained Depth: 6 Ft



⊕ Benchmark

----- Contour Line

Bathymetry

0' - 1.9'	7' - 7.9'
2' - 3.9'	8' - 8.9'
4' - 4.9'	9' - 10.9'
5' - 5.9'	11' and Deeper
6' - 6.9'	

0 100 200 400 Feet
1 in = 200 feet

Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Buoy
- Flashing Green
- Flashing Red
- Green Daybeacon
- Red Daybeacon
- Danger

US Army Corps of Engineers
Norfolk District

NOTES:

1. PROJECT: A CHANNEL, 6 FEET DEEP AND 100 FEET WIDE FROM THAT DEPTH IN CHESAPEAKE BAY UPSTREAM 1.0 MILE. A TRAFFIC SURVEY REVEALED THAT THE MAINTENANCE OF A 100-FOOT WIDE 6-FOOT DEEP CHANNEL IS NOT JUSTIFIED AT THIS TIME. A 80-FOOT WIDE, 6-FT DEEP CHANNEL WILL BE MAINTAINED UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE.
2. NOT FOR NAVIGATION USE: THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
3. SOUNDINGS SHOWN IN FEET, CENTERED ON POINT OF SHALLOWEST DEPTH IN 20 FT RADIUS GENERATED FROM HYDROGRAPHY DATA.
4. BACKGROUND: ESRI WORLD IMAGERY.
5. AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET.
6. SURVEY XYZ (+XYZ) AND METADATA: MET FILE NAME REFERENCED BY #HYDRO FILE NAME.

PROJECTED COORDINATE SYSTEM:	STATE PLANE	VERTICAL REFERENCE DATUM:	NOS MLLW
DATUM NAME: <td>VIRGINIA SOUTH ZONE<td>IMPLIED VERTICAL ACCURACY:<td>1985 EPOCH</td></td></td>	VIRGINIA SOUTH ZONE <td>IMPLIED VERTICAL ACCURACY:<td>1985 EPOCH</td></td>	IMPLIED VERTICAL ACCURACY: <td>1985 EPOCH</td>	1985 EPOCH
PROJECTED COORDINATE UNITS: <td>US SURVEY FEET<td>TIDE APPLICATION:<td>RTK/LEICA SMART NET</td></td></td>	US SURVEY FEET <td>TIDE APPLICATION:<td>RTK/LEICA SMART NET</td></td>	TIDE APPLICATION: <td>RTK/LEICA SMART NET</td>	RTK/LEICA SMART NET
IMPLIED HORIZONTAL ACCURACY: <td>+/- 1 FOOT<td>RTK/LEICA DATUM MDL:<td>RTK/LEICA DATUM MDL</td></td></td>	+/- 1 FOOT <td>RTK/LEICA DATUM MDL:<td>RTK/LEICA DATUM MDL</td></td>	RTK/LEICA DATUM MDL: <td>RTK/LEICA DATUM MDL</td>	RTK/LEICA DATUM MDL
HORIZONTAL CONTROL: <td>RTK/LEICA SMART NET<td>RTK/LEICA DATUM MDL:<td>RTK/LEICA DATUM MDL</td></td></td>	RTK/LEICA SMART NET <td>RTK/LEICA DATUM MDL:<td>RTK/LEICA DATUM MDL</td></td>	RTK/LEICA DATUM MDL: <td>RTK/LEICA DATUM MDL</td>	RTK/LEICA DATUM MDL
		BIN SIZE: <td>3x3</td>	3x3
		AVERAGE CELL CENTER: <td></td>	

MONUMENT	MEAN RANGE OF TIDE	AREA
NOS "NO 3, 1972"	4.31'(GEOD18)	00+00 to 181+00

OCCOHANNOCK CREEK

PROJECT CONDITION SURVEY

SURVEY DATES:
October 22-25 & November 9, 2023

SURVEY BY: USACE Team Lead: Abby Satterwhite, Geodynamics
#HYDRO FILE: OC_01_OCC_20231021_CS

SHEET 1 of 4

Map Produced: 2/6/2024

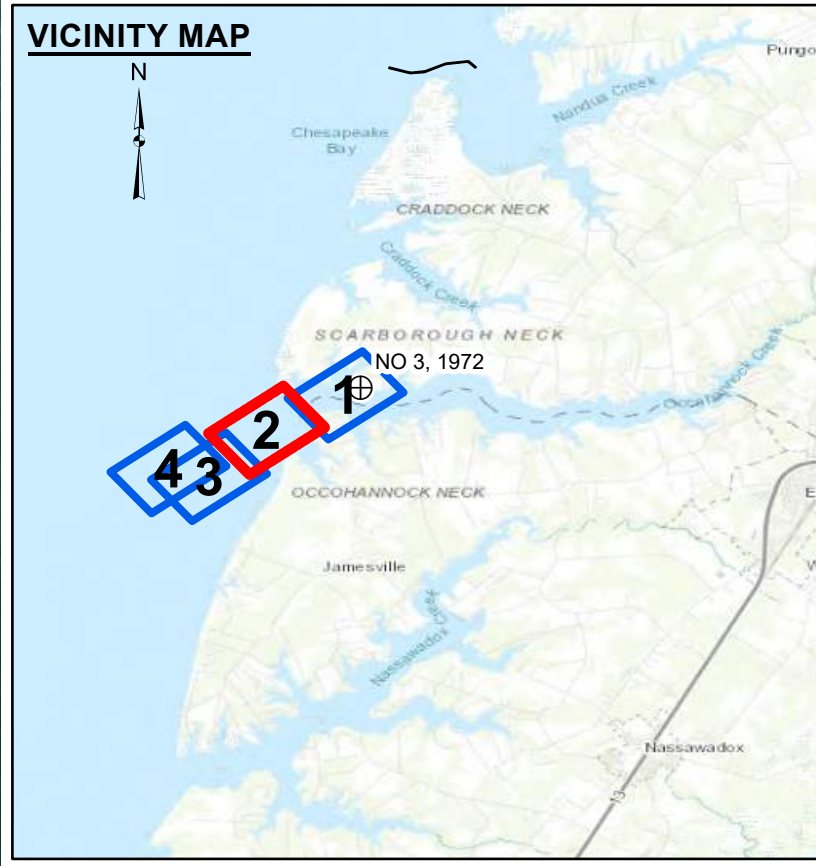
APPROVED: _____
Chief, Navigation Analysis Section

APPROVED: _____
Chief, Navigation Support and Survey Section

Reach: Occohannock Creek
Maintained Depth: 6 Ft

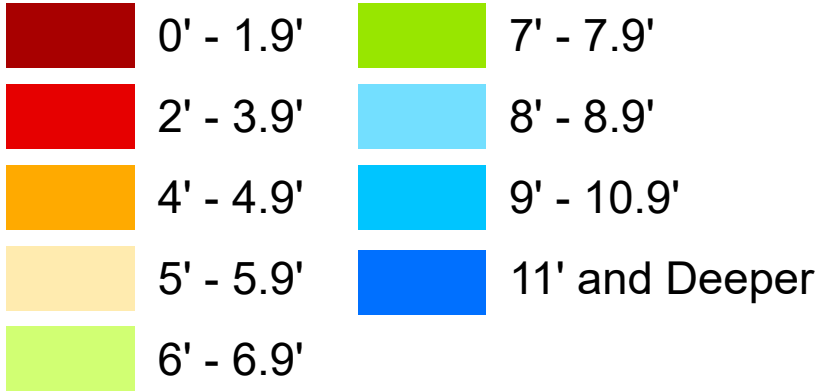
Chesapeake Bay

Occohannock Creek



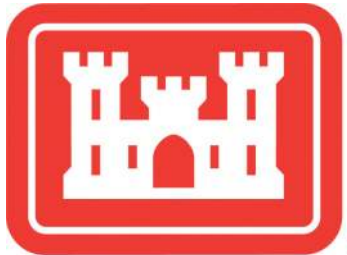
⊕ Benchmark
----- Contour Line

Bathymetry



Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Buoy
- Flashing Green
- Flashing Red
- Green Daybeacon
- Red Daybeacon
- Danger



US Army Corps
of Engineers
Norfolk District

NOTES:
1. CHANNEL, 6 FEET DEEP AND 100 FEET WIDE FROM THAT DEPTH IN CHESAPEAKE BAY UPSTREAM 1.0 MILE. A TRAFFIC SURVEY REVEALED THAT THE MAINTENANCE OF A 100-FOOT WIDE 6-FOOT DEEP CHANNEL IS NOT JUSTIFIED AT THIS TIME. A 80-FT WIDE, 6-FT DEEP CHANNEL WILL BE MAINTAINED UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE.
2. NOT FOR NAVIGATION USE. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
3. SOUNDINGS SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH N 20 FT RADIUS GENERATED FROM HYDROGRAPHIC DATA.
4. BACKGROUND: ESRI WORLD IMAGERY.
5. AID TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET.
6. SURVEY XYZ (X,Y,Z) AND METADATA (*.MET) FILE NAME REFERENCED BY #HYDRO FILE NAME.

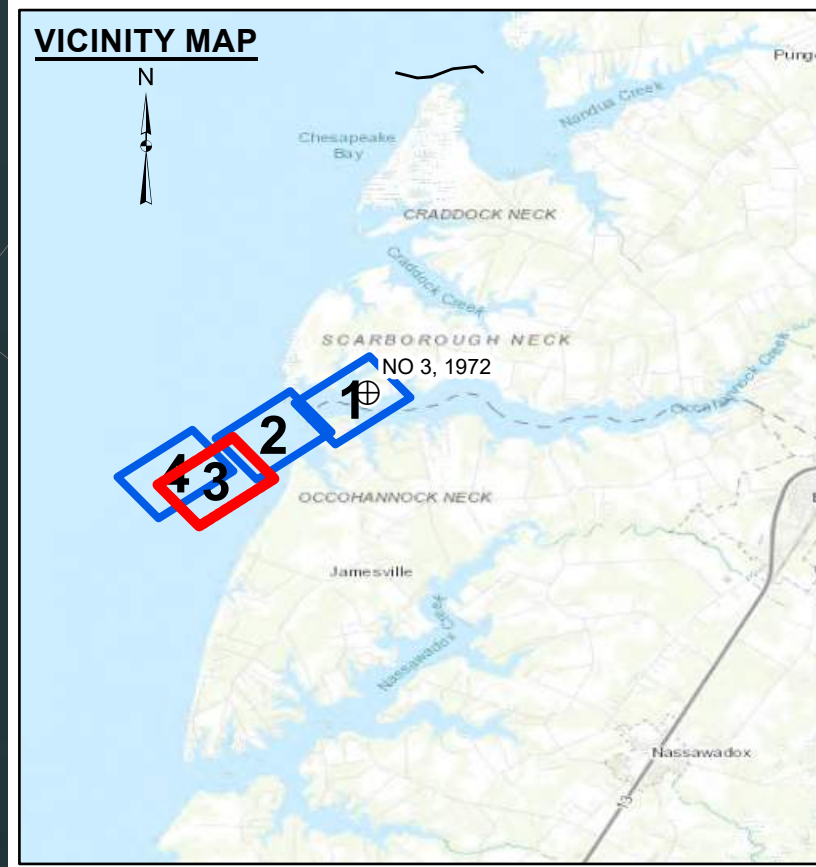
DATE/TIME NAME: VIRGINIA SOUTH ZONE		IMPLIED VERTICAL ACCURACY: ± 0.5 FEET		1983-2021	
HORIZONTAL ZONE: NAD 83		IMPLIED HORIZONTAL ACCURACY: ± 1.0 FEET		RTK/NOAA DATUM MLLW	
PROJECTED COORDINATE UNITS: US SURVEY FEET		TIDE APPLICATION: RTK/LEICA SMART NET		MULTI-BEAM	
HORIZONTAL CONTROL: RTK/LEICA SMART NET		SYSTEM METHOD: BIN SELECTION METHOD:		AVERAGE CELL CENTER	
GEODETIC CONTROL MONUMENTS					
MONUMENT		MLLW	NAVD88	MEAN RANGE OF TIDE	AREA
NOS 'NO 3, 1972'		5.77'	4.31'(GEOD18)	1.46'	00+00 to 181+00

OCCHOHANNOCK CREEK	SURVEY DATES:
PROJECT CONDITION SURVEY	October 22-25 & November 9, 2023
SURVEY BY: USACE Team Lead: Abby Satterwhite, Geodynamics	
#HYDRO FILE: OC_01_OCC_20231021_CS	

SHEET 2 of 4
Map Produced: 2/6/2024

APPROVED:
Chief, Navigation Analysis Section
APPROVED:
Chief, Navigation Support and Survey Section

Chesapeake Bay



⊕ Benchmark

----- Contour Line

Bathymetry

0' - 1.9'

2' - 3 q'

Figure 6

4 - 4.9

5' - 5.9'

6' - 6.9'

7' - 7.9'

 $g' - g \cdot q'$

100%

90%

80%

70%

60%

50%

40%

30%

20%

10%

0%

0 10 20 30 40 50 60 70 80 90 100

Percentage of respondents

Yes

No

9 - 10.9

11' and Deeper

0 100 200 400 Feet

1 in = 200 feet

Aids to Navigation

Nun

Green Lighted Buys

Green Lighted Back

Red Lighted B

 Junction Buoy

! Flashing Green

! Flashing Red

• **Accounting** is a

- Green Daybeacon

▲ Red Da

◇ Danger



US Army Corps
of Engineers
Norfolk District

NOTES:

1. PROJECT: A CHANNEL 9 FEET DEEP AND 100 FEET WIDE FROM THAT DEPTH IN CHESAPEAKE BAY UPSTREAM 1.0 MILE, A 100-FOOT WIDE 6-FOOT DEEP CHANNEL WILL BE MAINTAINED. THE MAINTENANCE OF A 100-FOOT WIDE 9-FOOT DEEP CHANNEL IS NOT JUSTIFIED AT THIS TIME. A 90-FOOT WIDE 6-FOOT DEEP CHANNEL WILL BE MAINTAINED UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE TO A 100-FOOT WIDE 9-FOOT DEEP CHANNEL.

2. NOT FOR NAVIGATION USE: THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING.

PROJECTED COORDINATE SYSTEM:	VIRGINIA SOUTH ZONE	TIDAL EPOCH:	1983-2011
DATUM NAME:	US SURVEY FEET	IMPLIED VERTICAL:	IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
HORIZONTAL ZONE:	US SURVEY FEET	VERTICAL CONTROL:	RTK/ICEA SMART NET
PROJECTED COORDINATE UNITS:	+/- 1 FOOT	TIDE APPLICATION:	RTKNOAA VDUTUM MSL
IMPLIED HORIZONTAL ACCURACY:	RTK/ICEA SMART NET	WAVE METHOD:	MULTIBEAM
HORIZONTAL CONTROL:	RTK/ICEA SMART NET	SIZE:	8192

**OCCOHANNOCK CREEK
PROJECT CONDITION SURVEY**

SHEET 3 of 4
Map Produced: 2/6/2024

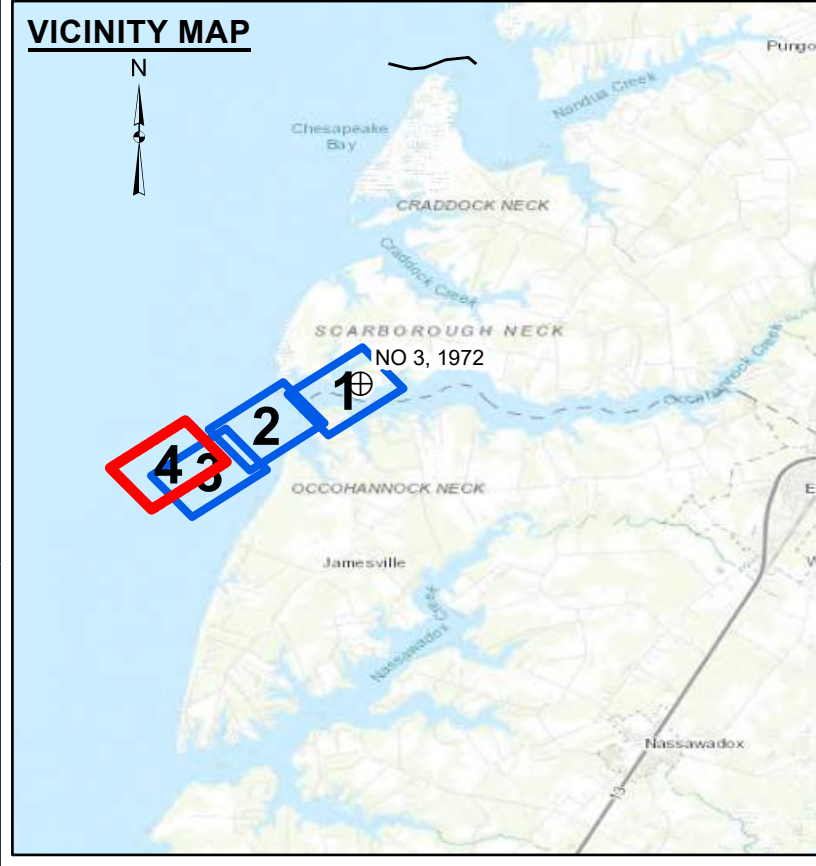
APPROVED: _____
Chief, Navigation Analysis Section

APPROVED: _____
Chief, Navigation Support and Survey Section

24	SURVEY BY: USACE team Lead: Abby Satterwhite, Geodynamics AWDROFILE-OC in OCC 20231074 CS 5. AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET. 6. SURVEY XYZ ("XYZ AND METADATA") METI FILE NAME REFERENCED BY eHYDRO FILE NAME.
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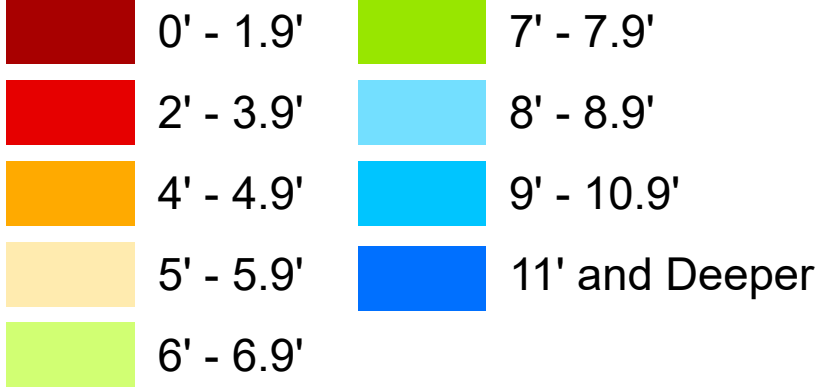
Reach: Occohannock Creek
Maintained Depth: 6 Ft

Chesapeake Bay



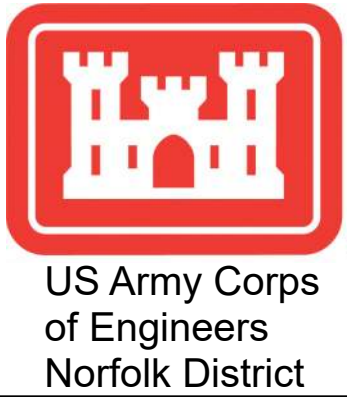
- ⊕ Benchmark
- Contour Line

Bathymetry



Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Buoy
- Flashing Green
- Flashing Red
- Green Daybeacon
- Red Daybeacon
- Danger



NOTES: 1. CHANNEL, 6 FEET DEEP AND 100 FEET WIDE FROM THAT DEPTH IN CHESAPEAKE BAY UPSTREAM 1.0 MILE. A TRAFFIC SURVEY REVEALED THAT THE MAINTENANCE OF A 10-FOOT WIDE, 6-FOOT DEEP CHANNEL IS NOT JUSTIFIED AT THIS TIME. A 80-FT WIDE, 6-FT DEEP CHANNEL WILL BE MAINTAINED UNTIL TRAFFIC INDICATES THE NEED FOR A CHANGE.

2. NOT FOR NAVIGATION USE. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

3. SOUNDINGS SHOWN IN FEET, CENTERED ON POINT OF SHOALEST DEPTH IN 20 FT RADIUS GENERATED FROM HYDRO SURVEY DATA.

4. BACKGROUND: ESRI WORLD IMAGERY.

5. AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET.

6. SURVEY XYZ (+, X, Y, Z) AND METADATA (.MET) FILE NAME REFERENCED BY #HYDRO FILE NAME.

PROJECTED COORDINATE SYSTEM		GEODETIC CONTROL MONUMENTS		MEAN RANGE OF TIDE		AREA	
DATUM NAME:	STATE PLANE	MLLW	NAVD88	1.46'		00+00 to 181+00	
DATUM NAME:	NAD 83	5.77'	4.31'(GEOID18)				
DATUM NAME:	SOUTH ZONE						
DATUM NAME:	US SURVEY FEET						
PROJECTED COORDINATE UNITS:	US SURVEY FEET						
IMPLIED HORIZONTAL ACCURACY:	+/- 1 FOOT						
HORIZONTAL CONTROL:	RTK/LEICA SMART NET						
VERTICAL REFERENCE DATUM:	NOS MLLW						
IMPLIED VERTICAL ACCURACY:	1985 EPOCH						
VERTICAL CONTROL:	RTK/LEICA DATUM NET						
TIDE APPLICATION:	RTK/LEICA DATUM MLLW						
BIN SIZE:	33'						
BIN SELECTION METHOD:	AVERAGE CELL CENTER						

OCCHOHANNOCK CREEK PROJECT CONDITION SURVEY

SURVEY DATES:
October 22-25 & November 9, 2023

SHEET 4 of 4
Map Produced: 2/6/2024

APPROVED: Chief, Navigation Analysis Section

APPROVED: Chief, Navigation Support and Survey Section

MATCH SHEET 3

37°32'30"N

75°57'30"W

37°32'30"N

75°57'30"W