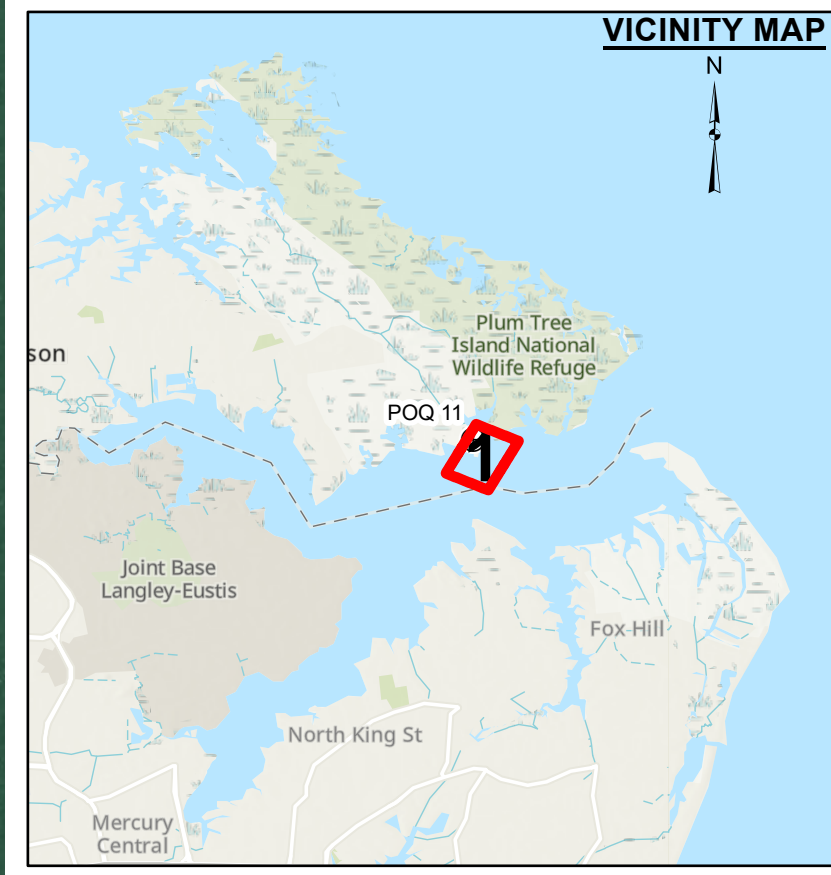




⊕ Benchmark

● Shoalest Sounding in Quarter/Parameter of each Reach

— Channel Toes

— Channel Quarter/Parameter Line

----- Maintained Depth Contour Line

**Bathymetry**

|           |                |
|-----------|----------------|
| 0' - 2.9' | 7' - 7.9'      |
| 3' - 3.9' | 8' - 8.9'      |
| 4' - 4.9' | 9' - 10.9'     |
| 5' - 5.9' | 11' and Deeper |
| 6' - 6.9' |                |

0 50 100 200 Feet

1 INCH = 100 FEET

**Aids to Navigation**

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



NOTES:

1. PROJECT: A CHANNEL 6 FEET DEEP, 60 FEET WIDE, AND A TURNING BASIN OF THE SAME DEPTH, 100 FEET WIDE AND 100 FEET LONG.
2. NOT FOR NAVIGATION USE. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE(S) 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 15 FT RADIUS GENERATED FROM HYDRO SURVEY DATA.
4. BACKGROUND: VIRGINIA BASE MAPPING PROGRAM MOST RECENT IMAGERY GIS WEBSERVICE.
5. ADS TO NAVIGATION: LOCATED WITH SURVEY VESSEL +/- 10 FEET.
6. SURVEY XYZ (X Y Z) AND METADATA (MET) FILE NAME REFERENCED BY #HYDRO FILE NAME.

|                                    |                    |
|------------------------------------|--------------------|
| VERTICAL REFERENCE DATUM: NOS MLLW | MEAN RANGE OF TIDE |
| POSITIONING SYSTEM: PRKA1155       | 2.30'              |
| SYSTEM METHOD: N/A                 |                    |
| BN SIZE: 0+00 to 29+27             |                    |
| AREA SURVEYED: 0+00 to 29+27       |                    |

|                                            |              |
|--------------------------------------------|--------------|
| PROJECTED COORDINATE SYSTEM: STATE PLANE   | MONUMENT     |
| VERTICAL DATUM: NOS MLLW                   | NOS "POQ 11" |
| PROJECTED COORDINATE UNITS: US SURVEY FEET |              |
| IMPLIED HORIZONTAL ACCURACY: +/- 1 FOOT    |              |
| IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET    |              |

**BACK RIVER, MESSICK POINT**

**PROJECT CONDITION SURVEY**

**SURVEY DATE:**  
July 9, 2024

SURVEY BY: USACE Team Lead: Jose Moore Jr.  
#HYDRO FILE: BR\_01\_BMP-20240709\_CS

**SHEET 1 of 1**

**Map Produced: 8/26/2024**

APPROVED:  
Chief, Navigation Analysis Section

APPROVED:  
Scott Titus

Digitally signed by Scott Titus  
Date: 2024.09.10 10:52:24 -0400

Chief, Navigation Support and Survey Section

|                                                                                 |                   |                                                                    |                   |                                                                |                                                                                       |
|---------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------|-------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------|
| To: Navigation Interests                                                        |                   | From: USACE, Norfolk District<br>803 Front St<br>Norfolk, VA 23510 |                   |                                                                |  |
| RIVER/HARBOR NAME AND STATE<br>BACK RIVER, MESSICK POINT - POQUOSON<br>VIRGINIA |                   |                                                                    |                   | MINIMUM DEPTHS (FT) 80% OF<br>CHANNEL ENTERING FROM<br>SEAWARD |                                                                                       |
| NAME OF CHANNEL                                                                 | DATE OF<br>SURVEY | PROJECT                                                            |                   |                                                                | 80% of Project Width -<br>40% on Either Side of Center Line                           |
|                                                                                 |                   | WIDTH<br>(feet)                                                    | LENGTH<br>(miles) | DEPTH<br>(feet)                                                |                                                                                       |
| Back River Channel                                                              | 07-09-2024        | 60                                                                 | 0.5               | 6.0                                                            | 4.1                                                                                   |
| Turning Basin                                                                   | 07-09-2024        | 100                                                                | 0.02              | 6.0                                                            | Entire Area<br>3.9                                                                    |
|                                                                                 |                   |                                                                    |                   |                                                                |                                                                                       |
| Remarks: All Depths at Mean Lower Low Water (MLLW), 1983-2001 Tidal Epoch       |                   |                                                                    |                   |                                                                |                                                                                       |