



Legend

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

To: Navigation Interests		From: USACE, Norfolk District 803 Front St Norfolk, VA 23510			
RIVER/HARBOR NAME AND STATE BACK RIVER, MESSICK POINT - POQUOSON VIRGINIA			MINIMUM DEPTHS (FT) 80% OF CHANNEL ENTERING FROM SEAWARD		
NAME OF CHANNEL	DATE OF SURVEY	PROJECT			80% of Project Width - 40% on Either Side of Center Line
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)	
Back River	02-14-2019	60	0.5	6	4.4
Turning Basin	02-14-2019	100	0.0	6	3.8

Remarks: All Depths at Mean Lower Low Water (MLLW), 1983-2001 Tidal Epoch



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 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 VIRGINIA BASE MAPPING PROGRAM 2013 IMAGERY.
5. AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET.
6. SURVEY XYZ (.XYZ) AND METADATA (.M) FILE NAME REFERENCED BY #HYDRO FILE NAME.

VERTICAL REFERENCE DATUM: NOS MLLW	VERTICAL ACCURACY: RTKLEICA SMART NET	MEAN RANGE OF TIDE	AREA
IMPLIED VERTICAL CONTROL: DIRECT	TIDE APPLICATION: DIRECT	NAVD88	04+00 to 29+27
PROJECTED COORDINATE SYSTEM: STATE PLANE	PROJECTED HORIZONTAL CONTROL: RTKLEICA SMART NET	MONUMENT	3.36(GEOD12B)
DATUM NAME: NAD 83 SOUTH ZONE	PROJECTED HORIZONTAL ACCURACY: 4.1 FOOT	MLLW	4.81'
IMPLIED HORIZONTAL CONTROL: RTKLEICA SMART NET	HORIZONTAL CONTROL: RTKLEICA SMART NET	MONUMENT	POQ 11
IMPLIED VERTICAL CONTROL: DIRECT	IMPLIED HORIZONTAL ACCURACY: 4.1 FOOT	MONUMENT	POQ 11
IMPLIED VERTICAL CONTROL: DIRECT	IMPLIED HORIZONTAL ACCURACY: 4.1 FOOT	MONUMENT	POQ 11
IMPLIED VERTICAL CONTROL: DIRECT	IMPLIED HORIZONTAL ACCURACY: 4.1 FOOT	MONUMENT	POQ 11

BACK RIVER, MESSICK POINT
PROJECT CONDITION SURVEY

SURVEY DATE:
February 14, 2019

SURVEY BY: USACE Team Lead, Joe Moore Jr.
#HYDRO FILE: BR_01_BMP_20190214_CS