

**REPORT OF CHANNEL CONDITIONS  
(FOR CHANNELS 400 FEET WIDE OR GREATER)**

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DATE: 15 March 2022

TO: The Record

FROM: U.S. Army Corps of Engineers  
26 Federal Plaza, ATTN: CENAN-OP-ST  
New York, NY 10278-0090

**RIVER/HARBOR NAME AND STATE:**

New York Harbor, Channel Along NJ Pierhead Line

**MINIMUM DEPTHS IN EACH ¼ WIDTH OF  
CHANNEL ENTERING FROM SEAWARD**

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MID-CHANNEL		RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (n miles)	DEPTH (feet)		LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	
<b>Channel Along NJ Pierhead Line – Reach A1 (rectangular widening):</b> From the approximate location of RED #2 W/LIGHT EBB to approximately 370 feet landward of NUN #8 EBB.	File 5132 /N1/N3/N4 Pg. 1 of 4; 18, 20, 24-26 JAN 2022	300	0.44	20	18.6			
<b>Channel Along NJ Pierhead Line – Reach A:</b> From the approximate location of RED #2 W/LIGHT EBB to approximately 370 feet landward of NUN #8 EBB.	File 5132 /N1/N3/N4 Pg. 1 of 4; 18, 20, 24-26 JAN 2022	500-2,060	0.60	20	13.0	21.3	22.4	22.0
<b>Channel Along NJ Pierhead Line – Reach B:</b> From approximately 370 feet landward of NUN #8 EBB to approximately 490 feet landward of NUN #14 EBB.	File 5132 /N1/N3/N4 Pg. 1-2 of 4; 18, 20, 24-26 JAN 2022	500	0.58	20	4.8	18.2	25.5	20.7
<b>Channel Along NJ Pierhead Line – Reach C:</b> From approximately 490 feet landward of NUN #14 EBB to the approximate location of GREEN #1 W/ LIGHT EBB.	File 5132 /N1/N3/N4 Pg. 2 of 4; 18, 20, 24-26 JAN 2022	500 – 1,260	1.09	20	7.4	7.2	7.1	6.9
<b>Channel Along NJ Pierhead Line – Reach C1 (triangular shape widening):</b> From approximately 30 feet landward of NUN #18 EBB to approximately 30 feet landward of CAN #3 FLOOD.	File 5132 /N1/N3/N4 Pg. 2 of 4; 18, 20, 24-26 JAN 2022	Triangular Shape	0.60	20	6.2			
<b>Liberty Island Anchorage – Reach A (trapezoidal shape widening):</b> From approximately 675 feet landward of NUN #4 FLOOD to approximately 870 feet landward of the most landward RESTRICTED ZONE BUOY EBB.	File 5132 /N1/N3/N4 Pg. 2-4 of 4; 18, 20, 24-26 JAN 2022	720	1.43	20	18.1			
<b>Liberty Island Anchorage – Reach A1 (rectangular shaped widening):</b> From approximately 40 feet landward of NUN #4 FLOOD to approximately 205 feet landward of NUN #2 EBB.	File 5132 /N1/N3/N4 Pg. 2-3 of 4; 18, 20, 24-26 JAN 2022	540	0.54	20	7.4			
<b>Liberty Island Anchorage – Reach A2 (irregular shape widening):</b> From approximately 3,110 feet landward of NUN #2 EBB to approximately 1,395 feet landward of the most landward RESTRICTED ZONE BUOY EBB.	File 5132 /N1/N3/N4 Pg. 4 of 4; 18, 20, 24-26 JAN 2022	Irregular Shape	0.66	20	4.1			

**REMARKS:**

- All reported depths are relative to Mean Lower Low Water (MLLW) datum.
- Channel reach lengths are in nautical miles.

**CHANNEL ALONG NEW JERSEY PIERHEAD LINE:**

- **Reach A1 (rectangular widening):** Shoaling exists along the channel's toe in the vicinity of NUN # 4 EBB. The controlling depth of -18.6 feet MLLW exists approximately 290 feet landward of NUN #4 EBB.
- **Reach A:** Shoaling exists in the Left Outside Quarter along the channel's toe beginning approximately at GREEN #1 W/ LIGHT EBB to approximately CAN #7 EBB. The controlling depth of -13.0 feet MLLW exists in the Left Outside Quarter approximately 295 feet seaward of GREEN #5 W/LIGHT EBB.

- **Reach B:** Shoaling exists along the Left Outside Quarter and into the Left Inside Quarter beginning approximately in the vicinity of GREEN #13 W/ LIGHT EBB and continues to approximately the end of the reach . The controlling depth of -4.8 feet MLLW exists at two locations in the Left Outside Quarter, approximately 470 feet and 550 feet landward of GREEN #13 W/LIGHT EBB.
- **Reach C:** Shoaling exists channel wide throughout the majority of this reach. The controlling depth of -6.9 feet MLLW exists in the Right Outside Quarter along the first bend of this reach.
- **Reach C1 (triangular shape widening):** Shoaling exists across the entire width of the anchorage. The controlling depth of -6.2 feet MLLW exists approximately 1,395 feet landward of GREEN #5 W/LIGHT EBB.

**LIBERTY ISLAND ANCHORAGE:**

- **Reach A (trapezoidal shape widening):** Minor edge shoaling exists along the western boundary of the reach. The controlling depth of -18.1 feet MLLW exists approximately 1,345 feet landward of NUN #2 EBB.
- **Reach A1 (rectangular shaped widening):** Shoaling exists channel wide across the majority of this reach. The controlling depth of -7.4 feet MLLW exists approximately 200 feet seaward of CAN #3 EBB.
- **Reach A2 (irregular shape widening):** Shoaling exists along the western portion of the anchorage. The controlling depth of -4.1 feet MLLW exists approximately 820 feet seaward of the most landward RESTRICTED ZONE BUOY EBB.