

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

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DATE: 19 November 2018

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, Anchorage Areas and 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)	
Channel Along NJ Pierhead Line – Reach A1 (rectangular widening): From approximately 35 feet seaward of RED BUOY #2 W/ LIGHT SLACK to approximately 70 feet seaward of RED NUN #8 FLOOD.	File 50 Pg. 1 of 4; 19, 20, 23- 27 July; 1-3, 8, 26 Aug 2018	300	0.44	20	18.8			
Channel Along NJ Pierhead Line – Reach A: From approximate location of RED BUOY #6 W/ LIGHT to approximately 330 feet landward of RED NUN #8 FLOOD.	File 50 Pg. 1 of 4; 19, 20, 23- 27 July; 1-3, 8, 26 Aug 2018	500-2,060	0.60	20	14.2	21.5	22.0	22.1
Channel Along NJ Pierhead Line – Reach B: From approximately 330 feet landward of RED NUN #8 FLOOD to approximately 420 feet landward of RED NUN #14 FLOOD.	File 50 Pg. 1-2 of 4; 19, 20, 23- 27 July; 1-3, 8, 26 Aug 2018	500	0.58	20	5.5	18.0	25.6	20.6
Channel Along NJ Pierhead Line – Reach C: From approximately 420 feet landward of RED NUN #14 FLOOD to approximately 80 feet eastward of GREEN #1 W/ LIGHT FLOOD towards the junction with Anchorage Channel.	File 50 Pg. 2 of 4; 19, 20, 23- 27 July; 1-3, 8, 26 Aug 2018	500 – 1,260	1.09	20	7.7	7.5	7.5	7.5
Channel Along NJ Pierhead Line – Reach C1 (triangular shape widening): From the approximate location of RED NUN #18 EBB to the approximate location of GREEN CAN #3 EBB.	File 50 Pg. 2 of 4; 19, 20, 23- 27 July; 1-3, 8, 26 Aug 2018	Triangular Shape	0.60	20	7.5			
Liberty Island Anchorage – Reach A (trapezoidal shape widening): From approximately 300 feet landward of RED NUN #4 to approximately 1,200 feet landward of RESTRICTED ZONE BUOY W/ LIGHT FLOOD.	File 50 Pg. 2-4 of 4; 19, 20, 23- 27 July; 1-3, 8, 26 Aug 2018	720	1.43	20	16.7			
Liberty Island Anchorage – Reach A1 (rectangular shaped widening): From the approximate location of RED NUN #4 EBB to approximately 165 feet landward of RED NUN #4 EBB.	File 50 Pg. 2-3 of 4; 19, 20, 23- 27 July; 1-3, 8, 26 Aug 2018	540	0.54	20	8.1			
Liberty Island Anchorage – Reach A2 (irregular shape widening): From approximately 150 feet landward of RESTRICTED ZONE BUOY W/ LIGHT FLOOD to approximately 1,460 feet landward of RESTRICTED ZONE BUOY W/ LIGHT FLOOD.	File 50 Pg. 4 of 4; 19, 20, 23- 27 July; 1-3, 8, 26 Aug 2018	Irregular Shape	0.66	20	6.4			

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 approximately 350 feet seaward of RED NUN #4 FLOOD and continues approximately 735 feet landward with a maximum width of 135 feet. The controlling depth of -18.8 feet MLLW exists approximately 305 feet landward of RED NUN #4 EBB.
- **Reach A:** Shoaling exists in the Left Outside Quarter along the channel's toe approximately 295 feet landward of GREEN #1 W/ LIGHT SLACK and continues until approximately 120 feet landward of GREEN #5 W/ LIGHT FLOOD with a maximum width of 165 feet. The controlling depth of -14.2 feet MLLW exists in the Left Outside Quarter approximately 320 feet seaward of GREEN #5 W/ LIGHT FLOOD.

- **Reach B:** Shoaling exists along the channel's toe in the Left Outside Quarter, extending into the Left Inside Quarter, approximately 50 feet seaward of GREEN #13 W/ LIGHT FLOOD and continues landward approximately 255 feet landward of RED NUN #14 FLOOD with a maximum width of approximately 165 feet. The controlling depth of -5.5 feet MLLW exists in the Left Outside Quarter approximately 615 feet landward of GREEN #13 W/ LIGHT FLOOD.
- **Reach C:** Shoaling exists in the Right Outside Quarter approximately 265 feet seaward of RED #16 W/ LIGHT FLOOD and extends across the entire width of the channel approximately 135 feet seaward of GREEN CAN #19 EBB. Shoaling continues across the entire width of the channel ending approximately 105 feet landward of GREEN & RED JUNCTION "P" W/ LIGHT EBB. Shoaling exists across the entire width of the channel approximately 190 feet seaward of RED NUN #6 W/ LIGHT FLOOD and continues approximately 165 feet seaward of GREEN CAN #3 FLOOD. The controlling depth of -7.5 feet MLLW exists sporadically in the Left Inside Quarter, Right Inside Quarter, and Right Outside Quarter approximately 1,345 feet seaward of RED NUN #4 W/LIGHT EBB.
- **Reach C1 (triangular shape widening):** Shoaling exists across the entire width of the anchorage at the approximate location of RED NUN #18 FLOOD and continues to the approximate location of GREEN #5 W/ LIGHT FLOOD. Shoaling exists across the entire width of the anchorage approximately 120 feet seaward of RED #4 W/ LIGHT EBB and continues until approximately 240 feet seaward of GREEN CAN #3 FLOOD. The controlling depth of -7.5 feet MLLW exists approximately 845 feet landward of RED NUN #6 W/ LIGHT FLOOD.

LIBERTY ISLAND ANCHORAGE:

- **Reach A (trapezoidal shape widening):** Shoaling exists along the western boundary of the reach approximately 1,065 feet seaward from RED NUN #2 FLOOD and continues until approximately 280 feet seaward from the same. The controlling depth of -16.7 feet MLLW exists approximately 220 feet seaward of RESTRICTED ZONE BUOY W/ LIGHT FLOOD 27 JULY 2018.
- **Reach A1 (rectangular shaped widening):** Shoaling exists across the width of this anchorage except along the eastern limit of the anchorage where the project depth is available from approximately 635 feet landward of RED NUN #4 EBB to approximately 1,065 feet seaward of RED NUN #2 FLOOD with a maximum width of 155 feet. Project depth is also available along the eastern limit of the anchorage approximately 280 feet seaward of RED NUN #2 FLOOD and continues approximately 165 feet landward with a maximum width of approximately 110 feet. The controlling depth of -8.1 feet MLLW exists approximately 220 feet seaward of GREEN CAN #3 FLOOD.
- **Reach A2 (irregular shape widening):** Shoaling exists along the western edge of the anchorage approximately 805 feet seaward of the southernmost RESTRICTED ZONE BUOY W/ LIGHT FLOOD 3 AUGUST 2018 and continues to approximately 370 feet landward of the RESTRICTED ZONE BUOY W/ LIGHT FLOOD 3 AUGUST 2018 with a maximum width of approximately 705 feet. Shoaling exists along the western edge of the anchorage approximately 250 feet seaward of the easternmost RESTRICTED ZONE BUOY W/ LIGHT FLOOD 3 AUGUST 2018 and continues to approximately 1,105 feet landward of the northernmost RESTRICTED ZONE BUOY W/ LIGHT FLOOD 3 AUGUST 2018 with a maximum width of approximately 1030 feet. The controlling depth of -6.4 feet MLLW exists approximately 210 feet landward of the RESTRICTED ZONE BUOY W/ LIGHT FLOOD 3 AUGUST 2018.