

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

DATE: 13 October 2017

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)	
<b>Channel Along NJ Pierhead Line – Reach A1 (rectangular widening):</b> From approximately 25 feet seaward of RED BUOY #2 W/ LIGHT SLACK to approximately 35 feet seaward of RED NUN #8 EBB.	Map 49 Pg. 1 of 4; 20-21, 24, 26, 31 July; 3-4, 7-8 Aug 2017	300	0.44	20		19.0		
<b>Channel Along NJ Pierhead Line – Reach A:</b> From the approximate location of RED BUOY #6 W/ LIGHT FLOOD to approximately 365 feet landward of RED NUN #8 EBB.	Map 49 Pg. 1 of 4; 20-21, 24, 26, 31 July; 3-4, 7-8 Aug 2017	500-2,060	0.60	20	13.6	20.8	21.8	22.2
<b>Channel Along NJ Pierhead Line – Reach B:</b> From approximately 365 feet landward of RED NUN #8 EBB to approximately 485 feet landward of RED NUN #14 EBB.	Map 49 Pgs. 1-2 of 4; 20-21, 24, 26, 31 July; 3-4, 7- 8 Aug 2017	500	0.58	20	4.7	18.1	25.7	20.9
<b>Channel Along NJ Pierhead Line – Reach C:</b> From approximately 485 feet landward of RED NUN #14 EBB to approximately 65 feet eastward of GREEN #1 W/ LIGHT EBB towards the junction with Anchorage Channel.	Map 49 Pg. 2 of 4; 20-21, 24, 26, 31 July; 3-4, 7-8 Aug 2017	500 – 1,260	1.09	20	7.6	7.6	7.5	7.5
<b>Channel Along NJ Pierhead Line – Reach C1 (triangular shape widening):</b> From the approximate location of RED NUN #18 EBB to approximately 105 feet landward of GREEN CAN #3 EBB.	Map 49 Pg. 2 of 4; 20-21, 24, 26, 31 July; 3-4, 7-8 Aug 2017	Triangular Shape	0.60	20		7.6		
<b>Liberty Island Anchorage – Reach A (trapezoidal shape widening):</b> From approximately 290 feet landward of RED NUN #4 to approximately 565 feet landward of MOORING BUOY FLOOD.	Map 49 Pgs. 2-4 of 4; 20-21, 24, 26, 31 July; 3-4, 7- 8 Aug 2017	720	1.43	20		16.3		
<b>Liberty Island Anchorage – Reach A1 (rectangular shaped widening):</b> From approximately 45 feet seaward of RED NUN #4 EBB to approximately 180 feet landward of RED NUN #2 FLOOD.	Map 49 Pgs. 2-3 of 4; 20-21, 24, 26, 31 July; 3-4, 7- 8 Aug 2017	540	0.54	20		8.0		
<b>Liberty Island Anchorage – Reach A2 (irregular shape widening):</b> From approximately 150 feet landward of RESTRICTED ZONE BUOY W/ LIGHT EBB 4 AUGUST 2017 to approximately 1,035 feet landward of MOORING BUOY FLOOD.	Map 49 Pg. 4 of 4; 20-21, 24, 26, 31 July; 3-4, 7-8 Aug 2017	Irregular Shape	0.66	20		6.0		

**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 EBB and continues approximately 710 feet landward with a maximum width of 130 feet.  
The controlling depth of -19.0 feet exists approximately 295 feet landward of RED NUN #4 EBB.
- **Reach A:** Shoaling exists along the channel's toe in the Left Outside Quarter approximately 290 feet landward of GREEN #5 W/ LIGHT FLOOD and continues 1670 feet seaward with a maximum width of approximately 165 feet.  
The controlling depth of -13.6 feet exists in the Left Outside Quarter approximately 225 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 10 feet seaward of GREEN #13 W/ LIGHT EBB and continues approximately 1225 feet landward with a maximum width of approximately 160 feet. The controlling depth of -4.7 feet exists in the Left Outside Quarter approximately 465 feet landward of GREEN #13 W/ LIGHT EBB.
- **Reach C:** Shoaling exists in the Right Outside Quarter approximately 235 feet seaward of RED #16 W/ LIGHT EBB and extends across the entire width of the channel approximately 110 feet seaward of GREEN CAN #9 EBB. Shoaling continues across the entire width of the channel ending approximately 130 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 to the approximate position of GREEN CAN #3 EBB. The controlling depth of -7.5 feet exists in the Right Outside Quarter approximately 1,165 feet landward of RED NUN #6 W/LIGHT FLOOD and in the Right Inside Quarter approximately 1,230 feet landward of RED NUN #6 W/LIGHT FLOOD.
- **Reach C1 (triangular shape widening):** Shoaling exists across the entire width of the anchorage at the approximate location of RED NUN #18 EBB and continues to the approximate location of GREEN #5 W/ LIGHT. Shoaling exists across the entire width of the anchorage approximately 75 feet seaward of RED #4 W/ LIGHT EBB and continues to the landward end of the reach at the approximate location of GREEN CAN #3 EBB. The controlling depth of -7.6 feet exists approximately 1,200 feet landward of RED #4 W/ LIGHT EBB.

#### LIBERTY ISLAND ANCHORAGE:

- **Reach A (trapezoidal shape widening):** Shoaling exists along the western boundary of the reach approximately 170 feet seaward of ANCHOR BUOY EBB and continues 780 feet landward. Shoaling exists along the western side of the anchorage approximately 300 feet seaward of RESTRICTED ZONE BUOY W/ LIGHT SLACK and continues approximately 865 feet landward with a maximum width of approximately 50 feet. A spot shoal exists approximately 415 feet landward of the easternmost RESTRICTED ZONE BUOY W/ LIGHT FLOOD 3 AUGUST 2017. The controlling depth of -16.3 feet exists approximately 265 feet seaward of RESTRICTED ZONE BUOY W/ LIGHT SLACK.
- **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 230 feet landward of RED NUN #4 EBB to approximately 1,065 feet seaward of RED NUN #2 with a maximum width of 145 feet. Project depth is also available along the eastern limit of the anchorage approximately 285 feet seaward of RED NUN #2 and continues approximately 460 feet landward with a maximum width of approximately 105 feet. The controlling depth of -8.0 feet exists approximately 255 feet seaward of GREEN CAN #3 FLOOD.
- **Reach A2 (irregular shape widening):** Shoaling exists along the western edge of the anchorage approximately 70 feet seaward of RESTRICTED ZONE BUOY W/ LIGHT EBB 4 AUG UST 2017 and continues to 270 feet landward of the easternmost RESTRICTED ZONE BUOY W/ LIGHT FLOOD 3 AUGUST 2017 with a maximum width of approximately 720 feet. Shoaling exists along the western edge of the anchorage approximately 540 feet landward of the northernmost RESTRICTED ZONE BUOY WITH LIGHT FLOOD 7 AUGUST 2017 and continues to 690 feet landward of MOORING BUOY FLOOD with a maximum width of 1030 feet. The controlling depth of -6.0 feet exists approximately 150 feet landward of the easternmost RESTRICTED ZONE BUOY W/ LIGHT FLOOD.