

**REPORT OF CHANNEL CONDITIONS  
100 TO 400 FEET WIDE**

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DATE 17 May 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:**  
Sandy Hook Bay at Leonardo, New Jersey

**MINIMUM DEPTHS IN  
CHANNEL ENTERING FROM SEAWARD**

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)			
<b>Reach A:</b> Begins approximately 640 feet seaward of RED NJ NUN FLOOD and ends approximately 210 feet seaward of GREEN NJ CAN FLOOD.	Map 139; Sheet 1 of 1; 18 April 2017	150	0.19	8	7.9	8.4	7.9
<b>Reach B:</b> Begins approximately 210 feet seaward of GREEN NJ CAN FLOOD and ends approximately 370 feet seaward of FIXED DANGER SIGN W/ LIGHT.	Map 139; Sheet 1 of 1; 18 April 2017	150	0.14	8	7.7	7.2	7.3
<b>Reach C:</b> Begins approximately 20 feet seaward of RED NJ NUN FLOOD and ends at entrance of the boat basin.	Map 139; Sheet 1 of 1; 18 April 2017	150	0.09	8	3.1	7.2	5.4

**REMARKS:**

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

**SANDY HOOK BAY AT LEONARDO:**

**Reach A:**

- Intermittent shoaling exists along the channel's toe in the Right Outside Quarter approximately 380 feet seaward of RED NJ NUN FLOOD and continues 690 feet landward with a maximum width of approximately 10 feet.
- Spot shoaling exists along the channel's toe in the Left Outside Quarter approximately 160 feet landward of RED NJ NUN FLOOD and continues 35 feet landward with a maximum width of approximately 2 feet.
- The controlling depth of -7.9 feet MLLW exists in the Right Outside Quarter approximately 330 feet seaward of NJ NUN FLOOD.

**Reach B:**

- Shoaling exists in the Right Outside Quarter approximately 130 feet landward of GREEN NJ CAN FLOOD and continues 60 feet landward spreading into the Middle Half with a maximum width of approximately 10 feet. Shoaling exists in the Right Outside Quarter and Middle Half beginning approximately 310 feet landward of GREEN NJ CAN FLOOD with a maximum width of approximately 60 feet. The shoaling continues into Reach C until the entrance of the boat basin approximately 910 feet landward.
- Shoaling exists along the channel's toe in the Left Outside Quarter approximately 10 feet seaward of GREEN NJ CAN FLOOD and continues 105 feet landward with a maximum width of approximately 10 feet. Shoaling exists in the left Outside Quarter approximately 130 feet landward of GREEN NJ CAN FLOOD and continues 115 feet landward with a maximum width of approximately 25 feet. Shoaling exists along the channel's toe in the Left Outside Quarter approximately 430 feet landward of GREEN NJ CAN FLOOD and continues 755 feet landward into Reach C until the entrance of the boat basin. The shoaling reaches across the quarter width approximately 100 feet seaward of RED NJ NUN FLOOD.
- The controlling depth of -7.2 MLLW exists in the Middle Half approximately 385 feet landward of GREEN NJ CAN FLOOD.

**Reach C:**

- Shoaling exists across the channel's entire width (all quarters) approximately 15 feet seaward of RED NJ NUN FLOOD and continues 560 feet to the landward end of the reach. Shoaling is a continuation of shoaling described in Reach B.
- The controlling depth of -3.1 feet MLLW exists in the Left Outside Quarter approximately 5 feet landward of GREEN FIXED AID TO NAVIGATION W/LIGHT.