

**REPORT OF CHANNEL CONDITIONS  
400 FEET WIDE OR GREATER**

**DATE:** 23 January 2015

**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:**  
Newark Bay, Hackensack and Passaic Rivers, New Jersey – Newark Bay Main Channel

**MINIMUM DEPTHS IN  
CHANNEL ENTERING FROM SEAWARD**

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)				
<b>Reach A - Main Channel South Reach:</b> The reach begins at the approximate location of RED LIGHT #16 and extends to approximately 25 feet seaward of RED #10 w/LIGHT.	Map 943, Pg 1 – 4 of 9; 20 - 22, 25, 27 Aug, 8, 16, 18 - 19, 24 Sep 2014	1,000-3,440	1.31	45	45.7	49.5	49.4	41.2
<b>Reach B - Main Channel Middle Reach (South):</b> The reach begins approximately 25 feet seaward of RED #10 w/LIGHT and extends to approximately 275 feet seaward of RED NUN #16.	Map 943, Pg 4 – 5 of 9; 20 - 22, 25, 27 Aug, 8, 16, 18 - 19, 24 Sep 2014	800-1,700	0.88	45	39.4	43.3	45.4	41.9
<b>Reach B1 - Main Channel Middle Reach (North):</b> The reach begins approximately 275 feet seaward of RED NUN #16 and extends to approximately 45 feet landward of GREEN CAN #1.	Map 943, Pg 5 – 6 of 9; 20 - 22, 25, 27 Aug, 8, 16, 18 - 19, 24 Sep 2014	565-800	0.53	40	36.0	37.7	32.8	25.7
<b>Reach C - Main Channel North Reach:</b> The reach begins approximately 45 feet landward of GREEN CAN #1 and extends to approximately 65 feet seaward of RED NUN #2.	Map 943, Pg 6 – 9 of 9; 20 - 22, 25, 27 Aug, 8, 16, 18 - 19, 24 Sep 2014	500-1,030	1.37	35	21.5	21.4	18.9	6.0

**REMARKS:**

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

**NEWARK BAY:**

- **Reach A:** Shoaling exists in the Right Outside Quarter of this reach from approximately 150 feet seaward of RED LIGHT #2 to the approximate location of RED LIGHT #4, having a maximum width of approximately 170 feet.
- **Reach B:** Shoaling exists along the channel's toe in the Right Outside Quarter of this reach from approximately RED #12 w/LIGHT to approximately 140 feet seaward of RED NUN #14 w/LIGHT; having a maximum width of approximately 110 feet.

Some shoaling exists in the Left Outside Quarter of this reach along the channel's toe within approximately the first 935 feet of this reach; having a maximum width of approximately 35 feet. A spot shoal having a controlling depth of 39.4 feet exists at the channel's toe in the Left Outside Quarter of this reach, approximately 910 feet seaward of the Main Channel's junction with the southernmost point of Port Elizabeth Channel. The spot shoal's approximate dimensions are 55 feet by 40 feet.

With the exception of the Right Inside Quarter, shoaling exists across much of the channel's width at the landward end of this reach; having a maximum length of approximately 40 feet.

- **Reach B1:** Shoaling exists throughout much of this reach. However, a navigable path where project depth is available exists between the approximate parameters of 30 feet landward of RED NUN #16 to GREEN CAN #1. The maximum width of this navigable path where project depth is available is approximately 500 feet, extending across the Left Outside, Left Inside, and Right Inside Quarters of the channel.
- **Reach C:** Shoaling exists throughout much or all of the Right Outside Quarter of the channel for the majority of this reach.

A navigable path where project depth is available exists throughout much of the Right Inside Quarter of the channel for approximately the first 5,240 feet of this reach. Shoaling exists throughout much of the Right Inside Quarter for approximately the next 2,400 feet of this reach. Project depth then becomes available again for much of the Right Inside Quarter for the remainder of this reach.

A navigable path where project depth is available exists throughout much of the Left Inside Quarter of the channel for approximately the first 7,750 feet of this reach. Shoaling exists throughout much of the Left Inside Quarter for the remainder (approximately 550 feet) of this reach.

A navigable path where project depth is available exists throughout much of the Left Outside Quarter of the channel for approximately the first 4,750 feet of this reach. Then, shoaling exists throughout much of the Left Outside Quarter for approximately the next 770 feet of this reach. Project depth again becomes available throughout much of the Left Outside Quarter of the channel for approximately the next 1,400 feet of this reach. Shoaling again exists throughout much of the Left Outside Quarter for the remainder of this reach.