

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

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DATE 21 May 2018

TO: The Record

FROM: U.S. Army Corps of Engineers
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RIVER/HARBOR NAME AND STATE: Newark Bay, Hackensack & Passaic Rivers, NJ; Newark Bay – Main Channel

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 (nmiles)	DEPTH (feet)		LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	
NEWARK BAY MAIN CHANNEL of Newark Bay, Hackensack & Passaic Rivers Navigation Channels Project								
Reach A – Main Channel South: Begins at the approximate location of RED #2 W/ LIGHT FLOOD, and ends at a point approximately 85 feet landward of RED #10 W/ LIGHT FLOOD.	Map 992, Pgs 1 - 3 of 8; 13 - 16, 20 - 23, 26 Feb 2018	1,000 – 2,360	1.28	50	48.6	49.2	50.6	45.7
Reach B – Main Channel Middle (South): Begins at a point approximately 85 feet landward of RED #10 W/ LIGHT FLOOD, and ends at a point approximately 340 feet seaward of RED NUN #16 FLOOD.	Map 992, Pgs 3 - 4 of 8; 13 - 16, 20 - 23, 26 Feb 2018	1,655 - 800	0.87	50	42.1	43.1	43.8	39.4
Reach B1 - Main Channel Middle (North): Begins at a point approximately 340 feet seaward of RED NUN #16 FLOOD, and ends at the approximate location of GREEN CAN #19A FLOOD.	Map 992, Pg 5 of 8; 13 - 16, 20 - 23, 26 Feb 2018	565-800	0.54	40	37.6	38.4	38.0	25.2
Reach C - Main Channel North: From the approximate location of GREEN CAN #19A FLOOD, to a point approximately 150 feet seaward of RED NUN #2 FLOOD.	Map 992, Pgs 5 - 8 of 8; 13 - 16, 20 - 23, 26 Feb 2018	500-1,030	1.37	35	15.8	21.4	17.6	5.5

REMARKS:

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

NEWARK BAY – MAIN CHANNEL

- **Reach A:** Sporadic shoaling exists in the Left Outside and Left Inside Quarters from approximately 410 feet landward of GREEN BUOY #7 W/LIGHT FLOOD, to a point located approximately 725 feet seaward of the end of the reach. Shoaling exists in the Right Outside Quarter from approximately 215 feet landward of RED #2 W/LIGHT FLOOD, to a point located approximately 900 feet seaward of RED BUOY #6 W/LIGHT FLOOD, having a maximum width of approximately 260 feet. Shoaling also exists along the channel's toe in the Right Outside Quarter for approximately the last 865 feet of this reach. There is also shoaling in the vicinity of RED #10 W/LIGHT FLOOD which has a maximum width of approximately 80 feet within the Right Outside Quarter of this reach. The controlling depth of -45.7 feet MLLW is located in the Right Outside Quarter approximately 1,050 feet landward of RED #4 W/LIGHT FLOOD.

- **Reach B:** In the Left Outside Quarter sporadic shoaling exists along the channel's toe from the approximate beginning of the reach, to a point located approximately 950 feet seaward of RED NUN #2 FLOOD, having a maximum width of approximately 160 feet. Shoaling exists across the entire width of the Left Outside Quarter for the majority of approximately the last 1,395 feet of this reach. This shoal extends across the entire width of the channel (all 4 quarters) for the majority of approximately the last 580 feet of the reach.
In the Left Inside Quarter shoaling exists from approximately 210 feet seaward of RED NUN #2 FLOOD, to the end of the reach. The shoaling becomes as wide as the quarter's entire width.
In the Right Inside Quarter shoaling exists from approximately 245 feet seaward of GREEN CAN #15A FLOOD, to the end of the reach. The shoaling becomes as wide as the quarter's entire width.
Shoaling exists throughout much of the width of the Right Outside Quarter from the beginning of the reach approximately 85 feet landward of RED #10 W/LIGHT FLOOD, to the end of the reach. The shoal extends across the entire width of the Right Outside Quarter for approximately the last 840 feet of the reach.
The controlling depth of -39.4 feet MLLW is located on the channel's toe in the Right Outside Quarter approximately 850 feet landward of RED #14 W/LIGHT FLOOD.
- **Reach B1:** Shoaling exists across the entire width of the Left Outside Quarter from approximately 635 feet landward of GREEN CAN #15A FLOOD, to a point located approximately 1,300 feet landward of the same. Shoaling also exists in approximately the last 200 feet of the Left Outside Quarter, having a maximum approximate width of 115 feet.
In the Left Inside Quarter shoaling exists across much of the quarter's width, beginning approximately 565 feet landward of GREEN CAN #15A FLOOD, to a point located approximately 1,885 feet landward of the same.
In the Right Inside Quarter shoaling exists across much of the quarter's width, beginning approximately 275 feet seaward of RED NUN #16 FLOOD, to a point located approximately 2,030 feet landward of the same. Shoaling also exists in approximately the last 150 feet of the reach in the Right Inside Quarter.
In the Right Outside Quarter shoaling exists across much of the quarter's width for the entire reach. The controlling depth of -25.2 feet MLLW can be found along the channel's toe, approximately 70 feet landward of RED NUN #16 FLOOD.
- **Reach C:** Shoaling exists sporadically along the channel's toe in the Left Outside Quarter from the approximate beginning of the reach, to a point located approximately 1,700 feet landward of GREEN #21 W/LIGHT FLOOD, having a maximum approximate width of 70 feet. Shoaling also exists across much of the Left Outside Quarter's width beginning approximately 900 feet seaward of the channel's first bend, to a point located approximately 80 feet seaward of the same, having a maximum approximate width of 100 feet. The controlling depth of -15.8 feet MLLW exists within these parameters. Thence shoaling exists throughout much or all of the width of the Left Outside Quarter for approximately the last 1,580 feet of this reach.
In the Left Inside Quarter shoaling exists in approximately the last 770 feet of this reach, extending as wide as the quarter's entire width. The controlling depth of -21.4 feet MLLW can be found at the very end of the reach.
Shoaling exists in the Right Inside Quarter from approximately 1,490 feet seaward of RED NUN #24 FLOOD, to a point located approximately 940 feet landward of the same. This shoaling becomes as wide as the quarter's entire width, and the controlling depth of -17.6 feet MLLW is located within these parameters along the quarter's eastern limit at its bend.
Shoaling exists in the Right Outside Quarter for much of this entire reach. The shoaling becomes as wide as the quarter's entire width. The controlling depth of -5.5 feet MLLW is located on the channel's toe at its bend.