

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

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DATE 12 December 2018

TO: The Record

FROM: U.S. Army Corps of Engineers
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New York, NY 10278-0090

RIVER/HARBOR NAME AND STATE:
Newark Bay, Hackensack & Passaic Rivers, NJ;
Newark Bay – Port Elizabeth Channel & 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)	
PORT ELIZABETH & MAIN CHANNEL of Newark Bay, Hackensack & Passaic Rivers Navigation Channels Project								
Reach G – Port Elizabeth Branch: From the approximate location of RED NUN #2 FLOOD, to a point located approximately 7,686 feet landward at the end of the port.	Map 1000, Pg 1 of 1; 15 November 2018, Map 999, Pgs 2 - 3 of 4; 18, 20 October 2018	750 – 500	1.27	50	49.7	50.2	50.1	49.4
Partial 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 999, Pg 4 of 4; 18, 20 October 2018	1,655 - 800	0.87	50	49.4	50.3	50.1	37.6
Partial Reach B1 – Main Channel Middle (North): Begins at a point approximately 350 feet seaward of RED #16 FLOOD, and ends at the approximately location of GREEN CAN #19A FLOOD.	Map 999, Pg 4 of 4; 18, 20 October 2018	565-800	0.54	40	38.0	38.0	37.2	29.9

REMARKS:

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

PORT ELIZABETH

Reach G – Port Elizabeth Branch:

- Edge shoaling exists across the width of the Left Outside Quarter of the channel along the boundary of the end of the reach.
- Shoaling exists along the channel toe of the Right Outside Quarter commencing approximately 795 feet seaward of the end of the reach and continues approximately 195 feet seaward, having a maximum width of approximately 5 feet.
- Shoaling exists along the channel toe of the Right Outside Quarter of the channel commencing approximately 2600 feet seaward of the end of the reach and continues approximately 130 feet seaward, having a maximum width of approximately 8 feet.
- The controlling depth of -49.4 feet MLLW exists in the Right Outside Quarter at approximately 825 feet seaward of the end of the reach.

MAIN CHANNEL

Partial Reach B – Main Channel Middle (South):

- Shoaling exists along the channel toe of the Right Outside Quarter approximately 920 feet seaward of GREEN CAN #15A FLOOD and continues approximately 450 feet landward, having a maximum width of approximately 210 feet. Then, sporadic shoaling continues to the end of the reach.
- Sporadic shoaling exists along the channel's toe of the Left Outside Quarter commencing approximately 25 feet landward of RED NUN #2 FLOOD and continues to the end of the reach, having a maximum width of approximately 15 feet.
- The controlling depth of -37.6 feet MLLW is located on the channel's toe in the Left Outside Quarter approximately 610 feet seaward of GREEN CAN #15A FLOOD.

Partial Reach B1 – Main Channel Middle (North):

- Shoaling encompasses the entire width of the channel commencing approximately 35 feet landward of the beginning of the reach and continues to the end of the partial reach.
- The controlling depth of -29.9 feet MLLW is located on the channel's toe in the Right Outside Quarter approximately 540 feet landward of GREEN CAN #15A FLOOD.