

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

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DATE: 30 December 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; Newark Bay Main Channel, NJ

**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 B1 - Main Channel Middle Reach (North): The reach begins at a point approximately 500 feet landward of GREEN CAN #15A and extends to a point approximately 25 feet landward of GREEN CAN #19A.	Map 961, Pgs 1 – 2 of 5; 10-12, 17 Aug 2015 & 1, 2, 10, 14, 23, 24 Sep 2015	565-800	0.54	40	37.3	38.5	32.8	25.8
Reach C - Main Channel North Reach: The reach begins at a point approximately 25 feet landward of GREEN CAN #19A and extends to a point approximately 420 feet seaward of LIGHT NB (Skeleton Tower).	Map 961, Pgs 2 – 5 of 5; 10-12, 17 Aug 2015 & 1, 2, 10, 14, 23, 24 Sep 2015	500-1,030	1.37	35	21.6	22.1	19.1	6.3

REMARKS:

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

NEWARK BAY:

- **Reach B1:** Shoaling exists in the Right Outside Quarter (ROQ) of this reach from approximately 250 feet seaward of RED NUN #16 for the remaining length of the reach at the width of the quarter. Shoaling exists in the Right Inside Quarter (RIQ) of this reach from approximately 250 feet seaward of RED NUN #16 to the approximate location of RED #18 W/ LIGHT, having a maximum width of approximately 200 feet. Shoaling exists in the Left Inside Quarter (LIQ) of this reach from approximately 250 feet seaward of RED NUN #16 to approximately 150 feet seaward of GREEN #17 W/LIGHT, having a maximum width of approximately 200 feet. Shoaling exists in the Left Outside Quarter (LOQ) of this reach from approximately 250 feet seaward of RED NUN #16 to approximately 75 feet seaward of GREEN #17 W/LIGHT, having a maximum width of approximately 200 feet. The LOQ has shoaling at approximately 150 feet landward of GREEN #17 W/LIGHT for a length of approximately 300 feet along the channel toe. Shoaling exists across the width of the entire channel at approximately GREEN CAN #19A where the project depth transitions to 35 feet.
- **Reach C:** Shoaling exists in the ROQ of this reach from approximately 400 feet seaward of RED #20 W/LIGHT for a length of approximately 325 feet, having a maximum width of approximately 100 feet. Shoaling along the ROQ channel toe begins approximately 130 feet landward of RED #20 W/LIGHT and continues for approximately 4,100 feet, having a maximum width of approximately 50 feet. Shoaling exists in the ROQ from approximately 1,700 feet seaward of RED NUN #24 for a length of approximately 460 feet, having a maximum width of approximately 160 feet extending into the RIQ.

Shoaling along the LOQ channel toe begins approximately 1,600 feet seaward of GREEN #21 W/LIGHT and continues approximately 1,700 feet landward of GREEN #21 W/LIGHT, having a maximum width of approximately 25 feet. Shoaling exists in the LOQ from approximately 2,000 feet landward of GREEN #21 W/LIGHT for a length of approximately 550 feet, having a maximum width of approximately 100 feet.

Shoaling exists in the remainder of the reach beginning approximately 1,100 feet seaward of RED NUN #24, extending across the entire width of the ROQ and RIQ. Shoaling exists at approximately RED NUN #24 across the entire width of the LOQ to the end of the reach. Shoaling in the LIQ begins approximately 970 feet landward of RED NUN #24 for the width of the quarter to the end of the reach.