

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

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**DATE:** 23 March 2016

**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; Main, Port Newark, and Port Newark Pierhead Channels, 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)	
<b>Reach B1 – Main Channel</b> <b>Middle:</b> Begins approximately 265 feet seaward of RED NUN #16 EBB; and extends to the approximate location of GREEN CAN #19A EBB.	Map #964, Sheets 1 & 2 of 5; 21-22, 28 DEC 2015 & 05 JAN 2016	565-800	0.54	40	37.2	38.4	32.8	25.9
<b>Partial Reach C – Main Channel</b> <b>North:</b> Survey coverage begins at the approximate location of GREEN CAN #19A; and extends to a point approximately 540 feet landward of RED NUN #20 W/LIGHT EBB.	Map #964, Sheet 2 of 5; 21-22, 28 DEC 2015 & 05 JAN 2016	500-1,030	1.37	35	33.9	36.2	35.4	30.9
<b>Reach D - Port Newark Branch</b> <b>Reach:</b> Begins at the approximate location of GREEN CAN #19A EBB and extends to a point approximately 785 feet landward of GREEN CAN #3 EBB.	Map #964, Sheets 2 & 3 of 5; 21-22, 28 DEC 2015 & 05 JAN 2016	400-1,785	0.38	40	22.8	32.8	33.7	24.3
<b>Reach E - Port Newark Inshore</b> <b>Reach:</b> Begins approximately 785 feet landward of GREEN CAN #3 EBB; to the end of the port, approximately 6,460 feet landward of the start of the reach.	Map #964, Sheets 3 - 5 of 5; 21-22, 28 DEC 2015 & 05 JAN 2016	400	1.06	40	29.5	31.2	30.3	30.2
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT QUARTER (feet)	MIDDLE HALF (feet)	RIGHT QUARTER (feet)	
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)				
<b>Partial Reach F - Port Newark Pierhead Reach:</b> Survey coverage begins at a point approximately 710 feet seaward of RED #8 EBB; to the approximate location of GREEN CAN #3 EBB.	Map #964, Sheet 3 of 5; 21-22, 28 DEC 2015 & 05 JAN 2016	300-750	0.65	40	39.5	39.9	39.6	

**REMARKS:**

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

**NEWARK BAY:**

- **Reach B1:**
  - Shoaling exists in the majority of the Right Outside Quarter (ROQ) for this entire reach.
  - Shoaling exists in much of the Right Inside Quarter (RIQ) from approximately 200 feet seaward of RED NUN #16 EBB to the approximate location of RED #18 W/LIGHT EBB. Also, shoaling exists for the majority of the RIQ from approximately 180 feet seaward of GREEN CAN #19A EBB to approximately 30 feet landward of the same.
  - Shoaling exists in much of the Left Inside Quarter (LIQ) from approximately 170 feet seaward of RED NUN #16 EBB to approximately GREEN #17 W/LIGHT EBB. Also, shoaling exists in much of the LIQ from approximately 60 feet seaward of

GREEN CAN #19A EBB to approximately 30 feet landward of the same.

- Shoaling exists in much of the Left Outside Quarter (LOQ) from approximately 200 feet seaward of RED NUN #16 EBB to the approximate location of GREEN #17 W/LIGHT EBB. Also, shoaling exists in the LOQ from approximately 165 feet landward of GREEN #17 W/LIGHT to approximately 475 feet landward of the same. Thence, shoaling exists in the LOQ from approximately 180 feet seaward of GREEN CAN #19A EBB to approximately 30 feet landward of the same.

- **Partial Reach C:**

- Shoaling exists throughout much of approximately the first 340 feet of the ROQ of this partial reach. Project depth is available in the entire LIQ and RIQ of this partial reach. Project depth is available throughout the majority of the LOQ of this entire partial reach.

- **Reach D:**

- Shoaling exists throughout much of the LOQ and LIQ from the approximate location of GREEN #17 W/LIGHT EBB to a point approximately 285 feet landward of GREEN CAN #3 EBB.
- Shoaling exists throughout much of the RIQ from a point approximately 95 feet landward of GREEN CAN #19A EBB to a point approximately 90 feet seaward of GREEN CAN #3 EBB.
- Shoaling exists throughout much of the ROQ from the approximate location of GREEN CAN #19A EBB, to a point approximately 400 feet landward of GREEN CAN #3 EBB.

- **Reach E:**

- Shoaling exists throughout much of the entire LOQ and ROQ of this reach. However, project depth does become available for segments of these quarters throughout this reach.
- Shoaling exists in the LIQ from the approximate beginning of the reach to a point approximately 680 feet seaward of the channel's bend. It has a maximum width of approximately 60 feet. Also, shoaling exists throughout much of the LIQ from a point approximately 840 feet landward of the channel's first bend to the end of the reach.
- Shoaling exists in the RIQ from approximately 130 feet landward of the beginning of the reach to a point approximately 675 feet seaward of the channel's bend. It has a maximum width of approximately 60 feet. Also, shoaling exists throughout much of the RIQ from a point approximately 1,615 feet landward of the channel's first bend to the end of the reach.

- **Partial Reach F:**

- Project depth is available throughout the majority of the channel's width for this entire partial reach. However sporadic spot shoals exists throughout the partial reach as well.