

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

**DATE:** 16 APR 2018

**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 & Passaic Rivers, NJ; Newark Bay – Port Newark and Port Newark Pierhead Channels

**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 D - Port Newark Branch Reach:</b> Begins approximately at location of GREEN #17 W/LIGHT EBB and extends to a point approximately 810 feet landward of GREEN #3 EBB.	Map #993, Sheet 2 of 4; 14-16, 22-23 FEB 2018	400-1,785	0.38	40	35.8	37.3	37.6	21.7
<b>Reach E - Port Newark Inshore Reach (East):</b> Begins approximately 810 feet landward of GREEN #3 EBB and extends to a point approximately 1,000 feet seaward of the end of the port (located approximately 5,465 feet landward of the start of the reach).	Map #993, Sheet 2 - 4; 14-16, 22-23 FEB 2018	400	0.90	40	37.2	37.1	35.2	34.8
<b>Reach E1 - Port Newark Inshore (West):</b> Begins approximately 1,000 feet seaward of the end of the port, and continues landward to the end of the port.	Map #993, Sheet 4 of 4; 14-16, 22-23 FEB 2018	400	0.16	35	32.4	30.4	29.9	29.4
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)	
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)				
<b>Reach F - Port Newark Pierhead Reach:</b> Begins approximately 55 feet seaward of RED NUN #4 FLOOD, to a point approximately 50 feet seaward of GREEN #3 EBB.	Map #993, Sheet 1 & 2 of 4; 14-16, 22-23 FEB 2018	300-750	0.65	40	36.8	38.0	36.1	

**REMARKS:**

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

**NEWARK BAY – Port Newark and Port Newark Pierhead Channels:**

- **Reach D:**
  - Shoaling exists throughout much of the Left Outside Quarter (LOQ) and Left Inside Quarter (LIQ) of this reach, starting from approximately 280 feet landward of GREEN #17 W/LIGHT EBB, to a point approximately 350 feet landward of GREEN #3 EBB.
  - Shoaling exists throughout much of the Right Outside Quarter (ROQ) and Right Inside Quarter (RIQ) of this reach, starting from approximately GREEN CAN #19A EBB, to a point approximately 230 feet seaward of GREEN #3 EBB
  - The controlling depth of 21.7 feet below MLLW, within the ROQ, is located approximately 255 feet landward of GREEN CAN #19A EBB, along the boundary of the channel.

**o Reach E:**

- o Shoaling exists throughout much of the LOQ and LIQ from the beginning of the reach and continues approximately 2,070 feet landward just before the channel's bend, with a maximum of width of approximately 190 feet.
- o Shoaling exists throughout much of the entire ROQ and RIQ starting from approximately 80 feet landward of the beginning of the reach and continues approximately 2,395 feet landward just beyond the channel's bend, with a maximum of width of approximately 180 feet.
- o Shoaling exists throughout much of the channel's entire width, starting from approximately 2,700 feet from the beginning of the reach (approximately 345 feet landward of the channel's bend) and continues approximately 2,760 feet landward to the end of the reach (approximately 1,000 feet seaward of the end of the port).
- o The controlling depth of 34.8 feet below MLLW, within the ROQ, is located approximately 110 feet seaward of the end of the reach, along the boundary of the channel.

**o Reach E1:**

- o Shoaling exists in the ROQ and RIQ starting at the beginning of the reach and continues approximately 525 feet landward, with a maximum width of approximately 120 feet.
- o Shoaling existing throughout much of the channel's entire width, starting from approximately 640 feet landward of the beginning of reach and continues landward to the end of the reach.
- o The controlling depth of 29.4 feet below MLLW, within the ROQ, is located at the end of the reach.

**o Reach F:**

- o Shoaling exists in the LOQ, starting from the beginning of the reach and continues landward for approximately 1,510 feet with a maximum width of approximately 140 feet.
- o Shoaling exists in the ROQ and partially in the Middle Half (MH), starting at RED NUN #4 EBB and continuing to RED NUN #8 EBB with a maximum width of approximately 185 feet.
- o Shoaling exists throughout much of the channel's entire width for approximately the last 1,685 feet of this reach.
- o The controlling depth of the 36.1 feet below MLLW, within the ROQ, is located at the end of the reach, approximately 50 feet seaward of GREEN #3 EBB.