

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

PAGE 1 OF 3 PAGES

DATE 03 April 2024

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,
New Jersey - Main and Port Newark 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)	
NEWARK BAY - Main and Port Newark Channels of Newark Bay, Hackensack & Passaic Rivers Navigation Channels Project								
Reach A – Main Channel South: Partial Survey - Begins approximately 365 feet landward GREEN #5 W/ LIGHT FLOOD and ends at a point approximately 120 feet landward of RED #10 W/ LIGHT FLOOD.	File 5403/D/N1 Pgs. 3 - 5 of 14. 23 – 24 & 29 – 31 JAN 2024	1,000 – 2,360	1.28	50	48.2	49.3	51.4	40.7
Reach B – Main Channel Middle (South): Begins at a point approximately 120 feet landward of RED #10 W/ LIGHT FLOOD and ends at a point approximately 555 feet seaward of RED NUN #16 FLOOD.	File 5403/D/N1 Pgs. 5 - 7 of 14. 23 – 24 & 29 – 31 JAN 2024	1,655 - 800	0.87	50	44.4	46.1	48.2	38.3
Reach B1 - Main Channel Middle (North): Partial Survey - Begins at a point approximately 555 feet seaward of RED NUN #16 FLOOD and ends at approximately 250 feet landward of RED NUN #16 FLOOD.	File 5403/D/N1 Pg. 7 of 14. 23 – 24 & 29 – 31 JAN 2024	565-800	0.54	40	40.0	39.7	38.9	38.2
Reach D - Port Newark Branch Reach: Partial Survey - Begins approximately at location 275 feet landward of GREEN #1 W/LIGHT FLOOD and extends to a point approximately 780 feet landward of GREEN #3 FLOOD.	File 5403/D/N1 Pgs. 12 of 14. 23 – 24 & 29 – 31 JAN 2024	400-1,785	0.38	40	38.4	39.5	38.9	39.7
Reach E - Port Newark Inshore Reach (East): Begins approximately 780 feet landward of GREEN #3 FLOOD 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).	File 5403/D/N1 Pgs. 12 - 14 of 14. 23 – 24 & 29 – 31 JAN 2024	400	0.90	40	38.4	39.1	39.0	36.9
Reach E1 - Port Newark Inshore Reach (West): Begins approximately 1,000 feet seaward of the end of the port and continues landward to the end of the port.	File 5403/D/N1 Pg. 14 of 14. 23 – 24 & 29 – 31 JAN 2024	400	0.16	35	24.3	28.2	27.8	27.5
Reach F - Port Newark Pierhead Reach: From the approximate location of NUN #4 FLOOD to the approximate location GREEN #3 FLOOD.	File 5403/D/N1 Pgs. 8, 11 & 12 of 14. 23 – 24 & 29 – 31 JAN 2024	300-750	.65	40	36.1	37.6		37.2
Reach G – Port Elizabeth Branch: From the approximate location of RED #2 FLOOD to a point located approximately 7,685 feet landward from the seaward beginning of the reach.	File 5403/D/N1 Pgs. 8 - 10 of 14. 23 – 24 & 29 – 31 JAN 2024	750 – 500	1.27	50	48.4	48.6	47.2	47.7

Reach I – Port Elizabeth South Reach (East): From a point along the Right Quarter Outside Edge seaward approximately 50 feet of the location of GREEN #1 FLOOD to a point approximately 1,530 feet landward from the beginning point.	File 5403/D/N1 Pg. 2 of 14. 23 – 24 & 29 – 31 JAN 2024	515-500	0.26	50	48.0	48.6	49.1	48.3
Reach I1 – Port Elizabeth South Reach (West): From the end of Reach I to a point approximately 990 feet landward along the Right Quarter Outside Edge	File 5403/D/N1 Pg. 2 of 14. 23 – 24 & 29 – 31 JAN 2024	500-100	0.17	45	41.4	42.6	42.4	41.1

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: Partial Survey, see description above** - Shoaling exists in the Left Outside Quarter along the toe until approximately 250 landward of GREEN #7 W/LIGHT FLOOD where shoaling extends across the quarter into the Left Inside Quarter extends to the approximate location of GREEN #1 FLOOD. Shoaling exists again in the Left Outside Quarter starting 575 feet seaward of end of the reach until the end of the reach. Shoaling exists in the Right Outside Quarter starting 2,195 feet seaward of the end of the reach until the end of the reach. The controlling depth of -40.7 feet MLLW is located in the Right Outside Quarter along the outside edge right at the end of the reach.
- **Reach B:** Shoaling exists in the Right Outside Quarter, encroaching into the Right Inside Quarter approximately 595 feet from the landward end of the reach until the end of the reach. Shoaling exists in the Left Outside Quarter starting approximately 255 feet landward of RED #2 EBB extends to GREEN LIGHT # 15 where from here until the landward end of the reach shoaling exists across the entire channel. The controlling depth of -38.3 feet MLLW is located in the Right Outside Quarter at the approximately 125 feet landward of RED #14 FLOOD.
- **Reach B1: Partial Survey, see description above** - Shoaling exists in the Right Outside and Inside Quarter for much of this entire survey. The controlling depth of -38.0 feet MLLW is located in the Right Outside Quarter at approximately 255 feet seaward of RED # 16 FLOOD.
- **Reach D: Partial Survey, see description above** - Scattered shoaling exists in the Left Outside Quarter; shoaling extends into the Left and Right Inside Quarters starting 300 feet landward of the Green #1 W/LIGHT FLOOD and extends 800 feet. The controlling depth of -38.4 feet MLLW exists in the Left Outside Quarter, near the channel's toe, at a point approximately 155 feet seaward of GREEN #3 FLOOD.
- **Reach E:** Shoaling exists along the channel's toe in both the Left and Right Outside Quarters of this reach. Shoaling extends into the Left Inside Quarter approximately 3,325 feet from the landward end of the reach and extends 320 feet landward. Beginning 1,455 feet seaward from the landward end of the reach shoaling exists all four quarters. The controlling depth of -38.4 feet MLLW exists along the outside edge of the Left Outside Quarter approximately 1,925 feet landward of the seaward end of the reach.
- **Reach E1:** Shoaling exists in the Right Outside Quarter and into the Right Inside Quarter at the beginning of this reach and expands across all four quarters 260 feet seaward of the landward end of this reach. The controlling depth of -24.3 feet MLLW exists in the Left Outside Quarter at approximately 60 feet from the end of this reach.
- **Reach F:** Shoaling exists throughout much of this reach. The controlling depth of -36.1 feet MLLW exists on the opposite side of the channel from the location of NUN #8 EBB.
- **Reach G:** Shoaling exists along the in the both the Right and Left Outside Quarter of this reach extending into the Right Inside Quarter in the vicinity of NUN # 4 FLOOD. The landward last 3,000 feet of the reach has numerous shoals across all quarters. The controlling depth of -47.2 feet MLLW exists on the landward end of the reach near the center of the channel.
- **Reach I: Port Elizabeth South Reach (East):** Shoaling exists in the Right Outside Quarter, Left Outside Quarter and at the landward end of both Left and Right Inside Quarters of this reach. The controlling depth of -48.0 feet MLLW exists in the Left Outside Quarter at landward end of the reach.

- **Reach I1 – Port Elizabeth South Reach (West):** Shoaling exists across much of this entire reach, in all four quarters of the channel. The controlling depth of -41.0 feet MLLW exists in the Right Outside Quarter at a point at landward end of the reach.