

**REPORT OF CHANNEL CONDITIONS  
100 TO 400 FEET WIDE**

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DATE 23 August 2022

**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:**  
Raritan River, New Jersey

**MINIMUM DEPTHS IN  
CHANNEL ENTERING FROM SEAWARD**

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (n. miles)	DEPTH (feet)			
<b>MAIN CHANNEL</b> <b>Reach A: Great Beds Reach</b> From the approximate location of GREEN CAN #5 FLOOD to the approximate location of GREEN CAN #3 FLOOD.	File 5194/N1; Pages 2-3 of 14; 18-21 July 2022	300-1,025	0.63	25	21.5	25.3	23.0
<b>MAIN CHANNEL</b> <b>Reach B: South Amboy Reach</b> From the approximate location of GREEN CAN #3 FLOOD to New Jersey C.R.R. Bridge.	File 5194/N1; Pages 3-6 of 14; 18-21 July 2022	300-380	1.17	25	23.5	20.5	22.0
<b>MAIN CHANNEL</b> <b>Reach C: Sandy Point Reach</b> From New Jersey C.R.R. Bridge to HWY 35 Victory Bridge.	File 5194/N1; Pages 6-8 of 14; 18-21 July 2022	300-370	0.92	25	24.3	22.7	25.0
<b>MAIN CHANNEL</b> <b>Reach D: Keasbey Reach</b> From HWY 35 Victory Bridge to approximately 345 feet landward of GREEN CAN #13 SLACK.	File 5194/N1; Pages 8-11 of 14; 18-21 July 2022	300-565	1.07	25	6.8	11.4	18.1
<b>MAIN CHANNEL</b> <b>Reach E: Red Root Reach</b> From approximately 345 feet landward of GREEN CAN #13 SLACK to approximately 1,025 feet landward of GREEN #17 W/LIGHT FLOOD.	File 5194/N1; Pages 11-13 of 14; 18-21 July 2022	300	0.96	25	11.7	16.2	6.6
<b>MAIN CHANNEL</b> <b>Reach F: Turning Basin</b> From approximately 1,025 feet landward of GREEN #17 W/LIGHT FLOOD and extends approximately 1,900 feet landward.	File 5194/N1; Page 13 of 14; 18-21 July 2022	300-600	0.31	25	0.2	5.8	6.8
<b>SOUTH CHANNEL</b> <b>Reach J:</b> From approximately 345 feet landward of GREEN CAN #13 SLACK to approximately 2,370 feet landward of GREEN CAN #13 SLACK.	File 5194/N1; Pages 10 and 14 of 14; 18-21 July 2022	300-430	0.39	25	4.2	4.0	3.8
<b>SOUTH CHANNEL</b> <b>Reach K:</b> From approximately 2,370 feet landward of GREEN CAN #13 SLACK to approximately 1,440 feet landward of the beginning of this reach.	File 5194/N1; Page 14 of 14; 18-21 July 2022	300	0.20	25	7.4	2.9	2.4

**REMARKS:**

- All depths are relative to the Mean Lower Low Water (MLLW) datum.
- Channel reach lengths are in nautical miles.
- Right Outside Quarter (ROQ), Left Outside Quarter (LOQ), and Middle Half (MH)

**MAIN CHANNEL****Reach A:**

- Minor edge shoaling exists in the Left Outside Quarter and Right Outside Quarter.
- The controlling depth of -21.5 feet MLLW exists in the LOQ along the channel's toe at the end of this reach.

**Reach B:**

- Edge shoaling exists in the Left Outside Quarter and Right Outside Quarter. A spot shoal exists in the Middle Half at the end of the reach.
- The controlling depth of -20.5 feet MLLW exists in the MH at the approximate location of NEW JERSEY C.R.R. BRIDGE.

**Reach C:**

- Minor edge shoaling exists in the Left Outside Quarter and Right Outside Quarter.
- The controlling depth of -22.7 feet MLLW exists in the MH at approximate location of NEW JERSEY C.R.R. BRIDGE.

**Reach D:**

- Edge shoaling exists in the Left Outside Quarter and Right Outside Quarter and extends into the Middle Half. Shoaling extends channel wide near the last bend of this reach.
- The controlling depth of -6.8 feet MLLW exists in the LOQ along the channel's toe at the end of this reach.

**Reach E:**

- Shoaling exists across the majority of this reach.
- The controlling depth of -6.6 feet MLLW exists in the ROQ at approximately 320 feet seaward of CAN #17 W/LIGHT FLOOD.

**Reach F:**

- Shoaling exists across the majority of this reach.
- The controlling depth of -0.2 feet MLLW exists in the LOQ along the channel's toe at approximately 1,050 feet landward of the beginning of this reach.

**SOUTH CHANNEL****Reach J:**

- Shoaling exists channel wide across this entire reach.
- The controlling depth of -3.8 feet MLLW exists in the ROQ at approximately 650 feet seaward of the end of the reach.

**Reach K:**

- Shoaling exists channel wide across this entire reach.
- The controlling depth of -2.4 feet MLLW exists in the ROQ at the toe of the channel at the end of the reach.