

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

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DATE 27 November 2024

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)			
MAIN CHANNEL Reach A: Great Beds Reach From the approximate location of GREEN CAN #5 FLOOD to the approximate location of GREEN CAN #3 EBB.	File 5491/D/AL/N2 Pages 2&3 of 14; 9,23,28 & 30 Oct & 19 Nov 2024	300-1,025	0.63	25	18.0	22.4	20.2
MAIN CHANNEL Reach B: South Amboy Reach From the approximate location of GREEN CAN #3 EBB to New Jersey C.R.R. Bridge.	File 5491/D/AL/N2 Pages 3-6 of 14; 9,23,28 & 30 Oct & 19 Nov 2024	300-380	1.17	25	16.3	9.9	17.2
MAIN CHANNEL Reach C: Sandy Point Reach From New Jersey C.R.R. Bridge to HWY 35 Victory Bridge.	File 5491/D/AL/N2 Pages 6-8 of 14; 9,23,28 & 30 Oct & 19 Nov 2024	300-370	0.92	25	22.1	13.0	11.2
MAIN CHANNEL Reach D: Keasbey Reach From HWY 35 Victory Bridge to approximately 300 feet landward of GREEN CAN #13 FLOOD.	File 5491/D/AL/N2 Pages 8-10 of 14; 9,23,28 & 30 Oct & 19 Nov 2024	300-565	1.07	25	7.0	11.1	10.9
MAIN CHANNEL Reach E: Red Root Reach From approximately 300 feet landward of GREEN CAN #13 FLOOD to approximately 1,080 feet landward of GREEN #17 W/LIGHT EBB.	File 5491/D/AL/N2 Pages 10,12 & 13 of 14; 9,23,28 & 30 Oct & 19 Nov 2024	300	0.96	25	11.0	16.4	6.9
MAIN CHANNEL Reach F: Turning Basin From approximately 1,080 feet landward of GREEN #17 W/LIGHT EBB and extends approximately 1,900 feet landward.	File 5491/D/AL/N2 Pages 13 & 14 of 14; 9,23,28 & 30 Oct & 19 Nov 2024	300-600	0.31	25	0.8	5.9	6.5
SOUTH CHANNEL Reach J: From approximately 240 feet landward of GREEN CAN #13 FLOOD to approximately 2,345 feet landward of GREEN CAN #13 FLOOD.	File 5491/D/AL/N2 Pages 10 & 11 of 14; 9,23,28 & 30 Oct & 19 Nov 2024	300-430	0.39	25	4.7	4.2	3.6
SOUTH CHANNEL Reach K: From approximately 2,345 feet landward of GREEN CAN #13 FLOOD to approximately 1,440 feet landward of the beginning of this reach.	File 5491/D/AL/N2 Page 11 of 14; 9,23,28 & 30 Oct & 19 Nov 2024	300	0.20	25	7.1	3.0	2.4

REMARKS:

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

MAIN CHANNEL**Reach A:**

- Shoaling exists within the first seaward 640 feet in the Right Outside Quarter and Middle Half and in the Left Outside Quarter along beginning boundary of the reach extending 50 feet landward.
- Starting 1,610 feet landward of the start of the reach shoaling starts and extends across the whole channel until the landward end of the reach.
- The controlling depth of -18.0 feet MLLW exists in the Left Outside Quarter along the channel's toe at the end of this reach.

Reach B:

- Shoaling exists across the entire channel along most of the length of this reach.
- The controlling depth of -9.9 feet MLLW exists under the NEW JERSEY C.R.R. BRIDGE in the Middle Half.

Reach C:

- Edge shoaling exists in the Left Outside Quarter starting 650 feet seaward of GREEN CAN #7 FLOOD and extend till the landward end of the reach.
- A spot shoal exists in the Middle Half on landward side of the NEW JERSEY C.R.R. BRIDGE.
- The controlling depth of -11.2 feet MLLW exists in along the right toe under the NEW JERSEY C.R.R. BRIDGE.

Reach D:

- Edge shoaling exists in the Left Outside Quarter and Right Outside Quarter and extends into edge of the Middle Half at times. Shoaling extends channel wide for the last 1,575 feet of landward end of this reach.
- The controlling depth of -7.0 feet MLLW exists in the Left Outside Quarter along the channel's toe at the end of this reach near the start of Reach J.

Reach E:

- Shoaling exists across the majority of this reach.
- The controlling depth of -6.9 feet MLLW exists in the Right Outside Quarter at approximately 240 feet seaward from GREEN CAN #17 W/LIGHT EBB.

Reach F:

- Shoaling exists across the majority of this reach.
- The controlling depth of -0.8 feet MLLW exists in the Left Outside Quarter along the channel's toe at approximately 430 feet seaward from GREEN CAN #25 W/LIGHT EBB.

SOUTH CHANNEL**Reach J:**

- Shoaling exists channel wide across this entire reach.
- The controlling depth of -3.6 feet MLLW exists in the Right Outside Quarter along the toe of the channel 970 feet landward from the landward 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 Right Outside Quarter at two locations; one along the toe of the channel 190 feet seaward from the landward the end of the reach and the other at the landward end of this reach.