

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

PAGE 1 OF 2

DATE 22 March 2019

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 approximately GREEN CAN #5 EBB to approximately 60 feet seaward of GREEN CAN #3 SLACK	File 533; Pages 2-3 of 11; 15-18, 22-24, 26, 31 Oct, 1, 26-27 Nov, 6-7 Dec 2018	300-1,025	0.63	25	20.0	22.6	22.1
MAIN CHANNEL Reach B: South Amboy Reach From approximately GREEN CAN #3 SLACK to New Jersey C.R.R. Bridge	File 533; Pages 3-5 of 11; 15-18, 22-24, 26, 31 Oct, 1, 26-27 Nov, 6-7 Dec 2018	300-380	1.17	25	20.9	15.4	21.2
MAIN CHANNEL Reach C: Sandy Point Reach From New Jersey C.R.R. Bridge to HWY 35 Victory Bridge	File 533; Pages 5-6 of 11; 15-18, 22-24, 26, 31 Oct, 1, 26-27 Nov, 6-7 Dec 2018	300-370	0.92	25	21.5	14.3	22.8
MAIN CHANNEL Reach D: Keasbey Reach From HWY 35 Victory Bridge to approximately 330 feet landward of GREEN CAN #13 EBB	File 533; Pages 6-8 of 11; 15-18, 22-24, 26, 31 Oct, 1, 26-27 Nov, 6-7 Dec 2018	300-565	1.07	25	6.8	11.6	15.5
MAIN CHANNEL Reach E: Red Root Reach From approximately 365 feet landward of GREEN CAN #13 EBB to approximately 1,035 feet landward of GREEN BUOY #17 W/LIGHT SLACK	File 533; Pages 8-10 of 11; 15-18, 22-24, 26, 31 Oct, 1, 26-27 Nov, 6-7 Dec 2018	300	0.96	25	12.1	17.4	13.6
MAIN CHANNEL Reach F: Turning Basin From approximately 1,035 feet landward of GREEN BUOY #17 W/LIGHT SLACK to approximately 330 feet landward of GREEN BUOY #25 W/LIGHT SLACK	File 533; Page 10 of 11; 15-18, 22-24, 26, 31 Oct, 1, 26-27 Nov, 6-7 Dec 2018	300-600	0.31	25	0.6	5.9	11.4
SOUTH CHANNEL Reach J: From approximately 365 feet landward of GREEN CAN #13 EBB to approximately 2,390 feet landward of GREEN CAN #13 EBB	File 533; Pages 8 and 11 of 11; 15-18, 22-24, 26, 31 Oct, 1, 26-27 Nov, 6-7 Dec 2018	300-430	0.39	25	2.8	1.6	1.2
SOUTH CHANNEL Reach K: From approximately 2,390 feet landward of GREEN CAN #13 EBB to approximately 3,830 feet landward of GREEN CAN #13 EBB	File 533; Page 11 of 11; 15-18, 22-24, 26, 31 Oct, 1, 26-27 Nov, 6-7 Dec 2018	300	0.20	25	5.2	1.9	0.8

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:**

- Shoaling exists throughout the width of the channel from the approximate location of GREEN CAN #5 EBB and continues landward for approximately 1,075 feet. Spot shoals then exist throughout the remainder of the reach, gradually becoming a solid band of shoaling in the LOQ, ROQ, and extending across the entire width of the channel.
- The controlling depth of -20.0 feet MLLW exists in the ROQ at approximately 1,990 feet landward of RED BELL #2 EBB.

Reach B:

- Sporadic shoaling exists throughout the width of the reach, starting at the beginning of the reach and continues landward until 1,360 feet landward of JUNCTION LIGHTED RED/GREEN EBB.
- Sporadic shoaling exists throughout the width of the reach, starting at approximately 1,805 feet seaward of RED LIGHTED #6 EBB and continues landward to the end of the reach at the NEW JERSEY C.R.R. BRIDGE
- The controlling depth of -15.4 feet MLLW exists in the MH at approximately 35 feet seaward of NEW JERSEY C.R.R. BRIDGE.

Reach C:

- Sporadic shoaling exists in the ROQ, MH, and LOQ, starting at the NEW JERSEY C.R.R. BRIDGE and continues landward until approximately 280 feet seaward of GREEN CAN #5 EBB.
- Shoaling exists along the channel's toe in the LOQ, starting at approximately 700 feet seaward of GREEN CAN #7 EBB and continues landward until approximately 135 feet seaward of the end of the reach.
- The controlling depth of -14.3 feet MLLW exists in the MH at the approximate location of NEW JERSEY C.R.R. BRIDGE.

Reach D:

- Shoaling exists in the LOQ, starting at approximately 65 feet landward of HWY 35 VICTORY BRIDGE and continues for the entire length of the reach. The shoaling starts encroaching into the MH and ROQ starting at approximately 170 feet landward of GREEN CAN #11 EBB and continues across the entire width of the channel for the remainder of the reach.
- Shoaling exists in the ROQ, starting at approximately 595 feet seaward of GREEN CAN #9 EBB and continues until the GARDEN STATE PARKWAY.
- Shoaling exists in the ROQ, starting at approximately 560 feet landward of GARDEN STATE PARKWAY and continues until approximately 105 feet seaward of GREEN CAN #11 EBB.
- The controlling depth of -6.8 feet MLLW exists in the LOQ at the approximate location of GREEN CAN #13 EBB.

Reach E:

- Shoaling exists across the majority of the reach.
- The controlling depth of -12.1 feet MLLW exists in the LOQ at approximately 1,320 feet landward of GREEN BUOY #15 EBB.

Reach F:

- The reach is predominantly shoaled except for a navigable path where project depth is available in parts of the ROQ, MH and LOQ, starting from approximately 1,115 feet seaward of GREEN BUOY #25 W/LIGHT and continues until approximately 340 feet landward of the same.
- The controlling depth of -0.6 feet MLLW exists in the LOQ at approximately 450 feet seaward of GREEN BUOY #25 W/LIGHT SLACK.

SOUTH CHANNEL**Reach J:**

- Shoaling exists across the entire width and length of this reach.
- The controlling depth of -1.2 feet MLLW exists in the ROQ at approximately 370 feet seaward of the end of the reach.

Reach K:

- Shoaling exists across the entire width and length of this reach.
- The controlling depth of -0.8 feet MLLW exists in the ROQ at approximately 45 feet landward of the beginning of the reach.