

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

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DATE 17 March 2017

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 GREEN CAN #3 EBB	File 531; Pages 2-3 of 11; 15-18, 23, 29 Nov 2016, 8, 9, 13 Dec 2016	300-1,025	0.63	25	22.8	24.1	23.6
MAIN CHANNEL Reach B: South Amboy Reach From approximately GREEN CAN #3 EBB to New Jersey C.R.R. Bridge	File 531; Pages 2-5 of 11; 15-18, 23, 29 Nov, 8, 9, 13 Dec 2016	300-380	1.17	25	23.1	22.8	22.6
MAIN CHANNEL Reach C: Sandy Point Reach From New Jersey C.R.R. Bridge to HWY 35 Victory Bridge	File 531; Pages 5-6 of 11; 15-18, 23, 29 Nov, 8, 9, 13 Dec 2016	300-370	0.92	25	22.3	18.5	23.6
MAIN CHANNEL Reach D: Keasby Reach From HWY 35 Victory Bridge to approximately 333 feet landward of GREEN CAN #13 EBB	File 531; Pages 6-8 of 11; 15-18, 23, 29 Nov, 8, 9, 13 Dec 2016	300-565	1.07	25	6.7	12.6	19.1
MAIN CHANNEL Reach E: Red Root Reach From approximately 333 feet landward of GREEN CAN #13 EBB to approximately 1,120 feet landward of GREEN BUOY #17 W/LIGHT EBB	File 531; Pages 8-10 of 11; 15-18, 23, 29 Nov, 8, 9, 13 Dec 2016	300	0.96	25	12.9	17.2	14.5
MAIN CHANNEL Reach F: Turning Basin From approximately 1,120 feet seaward of GREEN BUOY #17 W/LIGHT EBB to approximately 570 feet landward of GREEN BUOY #25 W/LIGHT EBB	File 531; Page 10 of 11; 15-18, 23, 29 Nov, 8, 9, 13 Dec 2016	300-600	0.31	25	1.2	5.3	17.2
SOUTH CHANNEL Reach J: From approximately 230 feet landward of GREEN CAN #13 EBB to approximately 2,590 feet landward of GREEN CAN #13 EBB	File 531; Pages 8 and 11 of 11; 15-18, 23, 29 Nov, 8, 9, 13 Dec 2016	300-430	0.39	25	4.6	4.4	4.3
SOUTH CHANNEL Reach K: From approximately 2,590 feet landward of GREEN CAN #13 EBB to approximately 3,790 feet landward of GREEN CAN #13 EBB	File 531; Page 11 of 11; 15-18, 23, 29 Nov, 8, 9, 13 Dec 2016	300	0.20	25	7.0	3.3	2.6

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 along the Left Outside Quarter from the approximate location of GREEN CAN #5 and continues landward for approximately 515 feet. A spot shoal exists within this quarter approximately 835 feet landward of GREEN CAN #5 and continues landward for approximately 120 feet. Shoaling starts again from approximately 2,365 feet seaward of GREEN CAN #3 and continues landward for approximately 2,360 feet.
- Shoaling exists along the Middle Half approximately 415 feet landward of RED NUN #6 and continues landward for approximately 675 feet. Shoaling along the Middle Half starts again from approximately 1,210 feet landward of GREEN CAN #5 and continues landward intermittently for approximately 1,590 feet. Shoaling exists along the Middle Half starts again approximately 1,470 feet seaward of GREEN CAN #3 and continues landward for approximately 880 feet. Shoaling along the Middle Half starts again approximately 385 feet seaward of GREEN CAN #3 and continues landward for 290 feet.
- Shoaling exists along the Right Outside Quarter approximately 515 feet landward of RED NUN #5 and continues landward for approximately 495 feet. Intermittent shoaling exists along the Right Outside Quarter approximately 355 feet landward of RED BELL #2 and continues for approximately 2,760 feet.
- The controlling depths of -22.8 feet MLLW exist along the Left Outside Quarter approximately 930 feet and 1,630 feet seaward of GREEN CAN #3.

Reach B:

- Shoaling exists along the Left Outside Quarter approximately 5 feet seaward of GREEN CAN #3 and continues landward for approximately 260 feet. Shoaling exists along the Left Outside Quarter approximately 575 feet seaward of JUNCTION LIGHTED RED/GREEN and continues landward for approximately 110 feet. Intermittent shoaling exists along the Left Outside Quarter approximately 285 feet landward of JUNCTION LIGHTED RED/GREEN and continues landward for approximately 1,020 feet. Shoaling exists along the Left Outside Quarter approximately 855 seaward of NEW JERSEY C.R.R. BRIDGE and continues landward for approximately 465 feet.
- Shoaling exists along the Middle Half approximately 5 feet seaward of GREEN CAN #3 and continues landward for approximately 75 feet. Intermittent shoaling exists along the Middle Half approximately 1,760 feet seaward of GREEN CAN #3 and continues landward for approximately 1,335 feet. Shoaling exists along the Middle Half approximately 890 seaward of NEW JERSEY C.R.R. BRIDGE and continues landward for approximately 700 feet.
- Shoaling exists along the Right Outside Quarter approximately 25 feet landward of RED DAY BEACON LIGHT #4 and continues landward for approximately 2,425 feet. Intermittent shoaling exists along the Right Outside Quarter approximately 315 feet landward of JUNCTION LIGHTED RED/GREEN and continues landward for approximately 830 feet. Shoaling exists along the Right Outside Quarter approximately 945 seaward of NEW JERSEY C.R.R. BRIDGE and continues landward for approximately 875 feet.
- The controlling depth of -22.6 feet MLLW exists along the Right Outside Quarter approximately 390 feet seaward of NEW JERSEY C.R.R. BRIDGE.

Reach C:

- Shoaling exists along the Left Outside Quarter approximately 440 feet landward of NEW JERSEY C.R.R. BRIDGE and continues landward for approximately 185 feet. Shoaling exists along the Left Outside Quarter approximately 625 feet seaward of GREEN CAN #7 and continues landward for approximately 1,190 feet. Shoaling exists along the Left Outside Quarter approximately 750 feet landward of GREEN CAN #7 for approximately 1,180 feet. Shoaling exists along the Left Outside Quarter approximately 105 feet landward of HWY 35 VICTORY BRIDGE and continues landward for approximately 2,545 feet.
- Shoaling exists along the Middle Half approximately 200 feet landward of NEW JERSEY C.R.R. BRIDGE and continues landward for approximately 275 feet.
- Shoaling exists along the Right Outside Quarter approximately 130 feet landward of NEW JERSEY C.R.R. BRIDGE and continues landward for approximately 390 feet.
- The controlling depth of -18.5 feet MLLW exists along the Middle Half approximately 270 feet landward of NEW JERSEY C.R.R. BRIDGE.

Reach D:

- Shoaling exists along the Left Outside Quarter approximately 105 feet landward of HWY 35 VICTORY BRIDGE and continues landward for approximately 2,545 feet. Shoaling exists along the Left Outside Quarter approximately 1,020 feet seaward of GREEN CAN #11 and continues landward for approximately 2,920 feet.
- Shoaling exists along the Middle Half approximately 200 feet landward of GREEN CAN #11 and continues landward for approximately 2,035 feet.
- Shoaling exists along the Right Outside Quarter approximately 645 feet landward of HWY 35 VICTORY BRIDGE and continues landward for approximately 815 feet. Shoaling exists along the Right Outside Quarter approximately 1,050 feet landward of GREEN CAN #11 and continues landward for approximately 1,220 feet.
- The controlling depth of -6.7 feet MLLW exists along the Left Outside Quarter approximately 135 feet landward of GREEN CAN #13.

Reach E:

- Shoaling exists across the majority of the reach.
- The controlling depth of -12.9 feet MLLW exists along the Left Outside Quarter approximately 1,605 feet landward of GREEN BUOY #15.

Reach F:

- The reach is predominantly shoaled except for a navigable path having a maximum width of approximately 160 feet where project depth is available in parts of the Right Outside Quarter, the Middle Half and the Left Outside Quarter starting from approximately 1,020 feet seaward of GREEN BUOY #25 W/LIGHT EBB to approximately 55 feet seaward of the end of the reach. Debris and pilings exist along the Left outside Quarter in the vicinity of and landward of GREEN BUOY #25.
- The controlling depth of -1.2 feet MLLW exists along the Left Outside Quarter approximately 425 feet landward of GREEN BUOY #25.

SOUTH CHANNEL**Reach J:**

- Shoaling exists across the entire width and length of this reach.
- The controlling depth of -4.3 feet MLLW exists along the Right Outside Quarter approximately 1,650 feet landward of GREEN CAN #13.

Reach K:

- Shoaling exists across the entire width and length of this reach.
- The controlling depth of -2.6 feet MLLW exists along the Right Outside Quarter approximately 3,700 feet landward of GREEN CAN #13.