

**REPORT OF CHANNEL CONDITIONS
100 TO 400 FEET WIDE
(ER 1130-2-306)**

PAGE 1 OF 2

DATE 25 March 2014

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 30 ft seaward of GREEN CAN #5 to approximately 45 ft seaward of GREEN CAN #3	File 525; Pages 2&3 of 11; 18, 23, 30, 31 Dec. 2013, 24 Jan., 26-28 Feb 2014	Varies 300 To 1,000	0.70	25	13.1	17.2	17.9
MAIN CHANNEL Reach B: South Amboy Reach From approximately 45 ft seaward of GREEN CAN #3 to New Jersey C.R.R. Bridge	File 525; Pages 3, 4&5 of 11; 18, 23, 30, 31 Dec. 2013, 24 Jan., 26-28 Feb 2014	300	1.16	25	14.8	17.2	14.6
MAIN CHANNEL Reach C: Sandy Point Reach From New Jersey C.R.R. Bridge to HWY 35 Victory Bridge	File 525; Pages 5&6 of 11; 18, 23, 30, 31 Dec. 2013, 24 Jan., 26-28 Feb 2014	300	0.92	25	21.8	20.0	24.9
MAIN CHANNEL Reach D: Keasby Reach From HWY 35 Victory Bridge to approximately 335 ft landward of GREEN CAN #13	File 525; Pages 6, 7&8 of 11; 18, 23, 30, 31 Dec. 2013, 24 Jan., 26-28 Feb 2014	Varies 300 To 650	1.13	25	6.2	10.3	18.9

REMARKS:

- All depths in Mean Lower Low Water (MLLW)
- Channel Length is in nautical miles

**RARITAN RIVER
MAIN CHANNEL**

- **Reach A:** Shoaling is present across a majority of the width of the reach.
- **Reach B:** Shoaling is present across the majority of the width of the entire reach. Project depth is available in the Middle Half of this reach beginning approximately 1,420 ft seaward of the New Jersey C.R.R. Bridge and extending landward approximately 885 ft.
- **Reach C:** Project depth is available for the majority of the reach. A shoal exists in the middle half of the reach beginning at the start of this reach and extending approximately 450 ft landward with a maximum width of approximately 50 ft. Shoaling is present in the right outside quarter of this reach beginning approximately 200 ft landward of the start of the reach and extending landward approximately 240 ft with a maximum width of approximately 10 ft. Shoaling in the left outside quarter begins approximately 595 ft seaward of Green Can 7 EBB and extends approximately 2,655 ft landward with a maximum width of approximately 65 ft.
- **Reach D:** Shoaling begins in the left outside quarter of this reach approximately 55 ft landward from the start of the reach and extends landward to the end of the reach. A shoal exists in the middle half of the channel of this reach beginning approximately 815 ft seaward of Green Can 9 EBB, and extends landward approximately 870 ft with a maximum width of approximately 70 ft. Another shoal exists in the middle half of this reach beginning approximately 640 ft seaward of Green Can 9 EBB and extends landward approximately 335 ft. A shoal exists in the middle half starting approximately 470 ft seaward of the Garden State Parkway and extends approximately 65 ft landward with an approximate maximum width of 20 ft. Shoaling exists in the middle half of this reach beginning approximately 90 ft landward of Green Can #11 and extends to the end of the reach covering the entire width.

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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 E: Red Root Reach From approximately 300 ft landward of GREEN CAN #13 to approximately 835 ft seaward of GREEN BUOY #25 W/LIGHT EBB	File 525; Pages 8,9 & 10 of 11; 18, 23, 30, 31 Dec. 2013, 24 Jan., 26-28 Feb 2014	300	0.96	25	12.9	17.3	14.7
MAIN CHANNEL Reach F: Turning Basin From approximately 835 ft seaward of GREEN BUOY #25 W/LIGHT EBB to approximately 1,066 ft landward of GREEN BUOY #25 W/LIGHT EBB	File 525; Page 10 of 11; 18, 23, 30, 31 Dec. 2013, 24 Jan., 26-28 Feb 2014	Varies 300 To 600	0.31	25	1.0	6.0	14.6
SOUTH CHANNEL Reach J From approximately 285 ft landward of GREEN CAN #13 to approximately 2,330 ft landward of GREEN CAN #13	File 525; Pages 8 & 11 of 11; 18, 23, 30, 31 Dec. 2013, 24 Jan., 26-28 Feb 2014	Varies 300 To 380	0.33	25	5.0	4.9	4.3
SOUTH CHANNEL Reach K From approximately 2,330 ft landward of GREEN CAN #13 to approximately 3,780 ft landward of GREEN CAN #13	File 525; Page 11 of 11; 18, 23, 30, 31 Dec. 2013, 24 Jan., 26-28 Feb 2014	300	0.24	25	7.3	3.2	2.6

REMARKS: All depths in Mean Lower Low Water (MLLW)

- Channel Length is in nautical miles

**RARITAN RIVER
MAIN CHANNEL**

- **Reach E:** Shoaling exists across the majority of the width of the reach except for a few scattered areas in the Right Outside Quarter where project depth is available.
- **Reach F:** The reach is mainly shoaled in except for a 40 to 260 foot wide strip covering parts of the Right Outside Quarter, the Middle Half and the Left Outside Quarter starting from approximately 500 feet seaward of GREEN BUOY #25 W/LIGHT EBB to approximately 65 ft seaward of the end of the reach.

**RARITAN RIVER
SOUTH CHANNEL**

- **Reach J:** Shoaling exists across the entire width and length of this reach.
- **Reach K:** Shoaling exists across the entire width and length of this reach.