

REPORT OF CHANNEL CONDITIONS
100 TO 400 FEET WIDE
(ER 1130-2-3165)

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DATE 25 August 2003

TO: Commander 90 (OAN), First Coast Guard District
 408 Atlantic Avenue
 Boston, MA 02110

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, NJ

**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 (miles)	DEPTH (feet)			
<i>Reach A.</i> Great Beds Reach, MAIN CH. MILE 0.0 TO MILE 0.74	JUNE 2003	1000* - 300	0.1* 0.74	25	23.9* 23.5	22.9* 24.8	23.1* 24.5
<i>Reach B.</i> South Amboy Reach, MAIN CH, MILE 0.74 TO MILE 2.24	JUNE 2003	300	1.50	25	23.5	22.9	22.4
<i>Reach C.</i> Sandy Point Reach MAIN CH, MILE 2.24 TO MILE 3.30	JUNE 2003	300	1.06	25	21.4	19.4	23.4
<i>Reach D.</i> Keasby Reach, RARITAN R, MAIN CH, MILE 3.30 TO MILE 4.53	JUNE 2003	300	1.23	25	5.4	10.8	17.6
<i>Reach E.</i> Red Root Reach RARITAN R, MAIN CH, MILE 4.53 TO MILE 5.50	JUNE 2003	300	1.47	25	13.6	16.8	13.1
<i>Reach F.</i> Turning Basin RARITAN R, MAIN CH, MILE 5.50 TO MILE 6.00	JUNE 2003	300	0.2	25	1.4	5.7	14.9
<i>Reach J.</i> Reach to Buoy No. 4 RARITAN R. SOUTH CH.	JUNE 2003	300	0.65	25	3.9	2.1	1.7

REMARKS:

- All depths are in reference to Mean Low Water (MLW)
- Information with asterisk (*) is related to the widening at the east end of the channel as part of Great Beds Reach
- *Reach A:* Approx 700 ft long and 100 ft wide shoaling along the right edge in RO ¼ of the widening from its east end to RED BELL #2 FLOOD, also 500 ft shoal with max width of 50 ft spreads across the whole half the channel in the eastern end of the widening. Shoal 250 ft long and 150 ft width located in widening. Shallow 20-30 ft wide shoals along both the left and right channel line in the entire rest of this reach ending at GREEN CAN *3.
- *Reach B:* Shallow 30-60 ft wide, 300-1,000 ft long shoals along both the left and right channel line in the entire rest of this reach. Several shoals across the entire width of the middle half at the west end of this reach at NJ C.R.R. BRIDGE.
- *Reach C:* A 300 ft long shoal covers almost the whole width of RO ¼ and a 50 ft wide 150 ft long shoal in the middle of the Channel both starts approx 100 ft above the NJ C.R.R. BRIDGE. Shoal approx 1,400 ft long and max. 80 ft wide at the west end of LO ¼ ending at VICTORY BRIDGE.
- *Reach D:* Shoals along both the right and left starting 1,000 ft above Victory Bridge reaching max width of 60 ft in the RO ¼ and 110 ft in the LO ¼. Around GREEN CAN. Shoals reach max width of 110 ft in RO ¼ and 60 ft in LO ¼ after Garden State Parkway. #11FLOOD shoaling widens and spreads across the channel in over the next 1,500 ft length. The final 700 ft of this reach is all shoaled.
- *Reach E:* The entire reach shoaled up. The 25 ft project depth available only at a few small isolated locations.
- *Reach F:* The majority of the turning basin is shoaled up. The turning basin is impassible with respect to the 25 ft project depth.
- *Reach J:* The entire reach is shoaled.