

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

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DATE: May 21, 2007

TO: The Record

FROM: U.S. Army Corps of Engineers
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 New York, NY 10278-0090

RIVER/HARBOR NAME AND STATE:

Shark 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 (nmiles)	DEPTH (feet)			
Reach A. From MI 0.0 in the Ocean to 800 ft upstream to a point halfway between the east ends of the two jetties. MILE 0.0 TO MILE 0.15.	Map 95 Pg 2 of 4 March 21, 23, 26-28, 2007	150/100	0.13	18	11.8	11.7	11.8
Reach B. From a point halfway between the east ends of the two jetties to Ocean Ave Bridge MILE 0.15 TO MILE 0.30	Map 95 Pg 2 of 4 March 21, 23, 26-28, 2007	100	0.13	12	12.6	10.7	4.6
Reach C. Ocean Ave Bridge to Route 35 Bridge MILE 0.30 TO MILE 1.17	Map 95 Pg 2, 3, and 4 of 4 March 21, 23, 26-28, 2007	100	0.76	12	6.6	8.0	6.9
Reach D. From Route 35 Bridge to the upstream limit of Federal Channel at Belmar Municipal Boat Basin MILE 1.17 TO MILE 1.70	Map 95 Pg 4 of 4 March 21, 23, 26-28, 2007	100	0.46	8	7.1	7.9	7.1
Reach E: Triangular anchorage area east of the State Highway Bridge Route 71, starts at MI 0.82 widens toward and ends near the Route 71 Bridge approx. at MI 1.10	Map 95 Pg 3 of 4 March 21, 23, 26-28, 2007	Irregular	Irregular	12	3.1		

REMARKS:

- All depths are in reference to Mean Low Water (MLW)
- Channel length is in nautical miles
 - **Reach A:** Project depth 18 ft is available only in a 120 ft length at the east end of this reach; the remainder of the channel has shoaled in.
 - **Reach B:** A 200 ft long shoal covers both the right outside quarter and 70% of the middle half of the channel beginning at the east end of the north jetty.
 - **Reach C:** 12 ft project depth is available for the entire width of channel from the beginning of the reach to 720 ft landward of the Ocean Ave Bridge; thence shoaling begins in the right outside quarter and extends across the entire channel width. Shoaling continues to the end of this channel reach, with the exception of three 300 ft long areas extending seaward from each of the following: the east end of the anchorage triangle, Route 71 Bridge, and the Route 35 Bridge.

- **Reach D:** Shoals cover less than 10 % of this reach and the 8 ft project depth is available throughout most of the reach with the following exceptions: a 350 ft length shoal starting from 100 ft landward of Route 35 Bridge in the left outside quarter; a 600 ft long shoal starting 700 ft landward from the Route 35 Bridge in the right outside quarter. Spot shoaling 200 ft in length beginning 600 ft seaward of the end of the reach is present in the right outside quarter and the middle half. Edge shoaling 150 ft in length and beginning 500 ft seaward of the end of the reach is present at the bend of the left outside quarter.
- **Reach E:** Shoaling covers approx. 90% of the anchorage area. The lowest depths in various portions of the anchorage area are: northwest corner 3.6 ft; east corner 13.5 ft; southwest corner 11.6 ft; center of anchorage 8.7 ft.