

**REPORT OF CHANNEL CONDITIONS  
400 FEET WIDE OR GREATER  
(ER 1130-2-306)**

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**DATE**            14 June 2012

**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:**  
New York and New Jersey Channels  
Raritan Bay East Reach, Lower New York Bay

**MINIMUM DEPTHS IN  
CHANNEL ENTERING FROM SEAWARD**

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)				
<b>Reach Q – Seguine Point Bend Reach (Partial):</b> From approximately 520 feet landward of RED LIGHT #30 W/ BELL to GREEN #27 W/LIGHT	File 1345; Sheets 1 of 6; 11&12, 16-19 April 2012	600 - 900	0.46	35	33.0	39.8	39.4	32.7
<b>Reach R – Raritan Bay West Reach:</b> From GREEN #27 W/LIGHT to RED #14 W/LIGHT & BELL	File 1345; Sheets 1-3 of 6; 11&12, 16-19 April 2012	600	2.42	35	31.3	40.3	40.3	31.0
<b>Reach S – Raritan Bay East Reach:</b> From RED #14 W/LIGHT & BELL to junction with Main Ship Channel (Chapel Hill Channel), approximately 100 feet seaward of GREEN LIGHT #1	File 1345; Sheets 3-6 of 6; 11&12, 16-19 April 2012	600 - 800	4.06	35	32.5	38.6	37.7	32.8

**REMARKS:**

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

**NEW YORK and NEW JERSEY CHANNELS – RARITAN BAY REACH EAST, LOWER NEW YORK BAY:**

- **Reach Q (Partial):** Shoaling exists in the Right Outside Quarter commencing approximately 230 feet landward of RED #30 W/LIGHT & BELL and continues seaward until approximately RED NUN #28. Shoaling exists along the length of the Left Outside Quarter ending approximately at GREEN #27 W/LIGHT.
- **Reach R:** Shoaling exists along the toe line of the Right Outside Quarter commencing approximately 970 feet landward of RED #26 W/LIGHT & BELL and continuing seaward for the remainder of the reach, reaching its greatest width of approximately half the width of the quarter. Shoaling commences in the Left Outside Quarter approximately 90 feet seaward of GREEN #27 W/LIGHT and continues seaward ending approximately 2,830 feet seaward of GREEN #19 W/LIGHT & BELL.
- **Reach S:** Shoaling exists in the Right Outside Quarter at approximately RED #14 W/LIGHT & BELL and continues seaward ending at approximately 1,320 feet seaward of RED NUN #12. Shoaling then begins approximately 930 feet landward of RED #10 W/LIGHT & BELL and ends approximately 310 feet landward of RED #6 W/LIGHT & BELL. Shoaling also exists approximately 2,280 feet seaward of RED NUN #4 and continues seaward until the end of the reach, extending across the width of the quarter. Shoaling exists along the channel's toe line of the Left Outside Quarter commencing approximately 1,650 feet landward of GREEN LIGHT #1, continuing seaward for the remainder of the reach.