

**REPORT OF CHANNEL CONDITIONS
(FOR CHANNELS 400 FEET WIDE OR GREATER)**

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DATE 31 August 2016

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)				
Reach Q – Seguine Point Bend Reach (Partial): From approximately 810 feet landward of RED LIGHT #26 to approximately GREEN #27 W/LIGHT	File 1388; Sheet 1 of 6; 18, 19, 23, 24, 25, 27 May 2016	600 - 900	0.45	35	32.1	40.9	41.2	34.8
Reach R – Raritan Bay West Reach: From approximately 810 feet landward of RED LIGHT #26 to approximately 710 feet seaward of RED LIGHT #14	File 1388; Sheets 1-3 of 6; 18, 19, 23, 24, 25, 27 May 2016	600	2.42	35	31.4	39.8	39.9	30.7
Reach S – Raritan Bay East Reach: From approximately 710 feet seaward of RED LIGHT #14 to junction with Main Ship Channel (Chapel Hill Channel), at approximately GREEN LIGHT #1	File 1388; Sheets 3-6 of 6; 18, 19, 23, 24, 25, 27 May 2016	600 - 800	4.06	35	31.9	38.4	38.2	33.2

REMARKS:

- All depths are relative to Mean Lower Low Water (MLLW)
- Channel reach lengths are in nautical miles

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

- **Reach Q (Partial):** Shoaling exists along the channel's toe in the Right Outside Quarter commencing approximately 520 feet seaward of GREEN LIGHT #27 and continues seaward for approximately 610 feet, having a maximum width of approximately 20 feet. Shoaling also exists along the channel's toe in the Left Outside Quarter commencing approximately 110 feet seaward of GREEN LIGHT #27 and continues seaward for approximately 1,030 feet, having a maximum width of approximately 65 feet.
- **Reach R:** Shoaling exists along the channel's toe for the entire length of the Right Outside Quarter in the reach (beginning approximately 810 feet landward of RED LIGHT #26 and ending approximately 710 feet seaward of RED LIGHT #14), having a maximum width of approximately 80 feet. Shoaling exists along the channel's toe in the Left Outside Quarter commencing approximately 795 feet landward of GREEN CAN #25 and extends seaward to approximately 2,880 feet seaward of GREEN LIGHT #19, having a maximum width of approximately 90 feet.
- **Reach S:** Shoaling exists in the Right Outside Quarter along the channel's toe beginning approximately 710 feet seaward of RED LIGHT #14 and continues seaward ending approximately at RED NUN #12, having a maximum width of approximately 50 feet. Additional shoaling exists along the channel's toe in the Right Outside Quarter beginning approximately 2,315 feet seaward of RED LIGHT #10 and continues seaward to approximately 1,545 feet seaward of RED NUN #8, having a maximum width of approximately 40 feet. Intermittent shoaling exists in the Right Outside Quarter beginning approximately 1,675 feet seaward of RED & GREEN JUNCTION "SP" and continues landward for approximately 1,955 feet, having a maximum width of approximately 115 feet. Shoaling exists in the Left Outside Quarter beginning approximately at GREEN LIGHT #1 and continues approximately 1,965 feet landward, having a maximum width of approximately 125 feet.

