

**REPORT OF CHANNEL CONDITIONS  
100 TO 400 FEET WIDE**

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**DATE** 31 May 2019

**TO:** The Record

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

**RIVER/HARBOR NAME AND STATE:**  
Great South Bay - Patchogue River, New York

**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)			
<b>Reach D (Entrance Channel):</b> From the intersection with the Great South Bay Channel, to a point approximately 8,550 feet landward where the 10 Foot Inside Section Reach begins.	Map 101, Sheets 1-3 of 4; 23 July – 16 August 2019	100	1.41	10	7.1	7.5	6.7
<b>Reach E (10 Foot Inside Section):</b> From the landward extent of the Entrance Channel Reach, to a point approximately 4,155 feet landward where the 8 Foot Inside Section Reach begins.	Map 101, Sheets 3-4 of 4; 23 July – 16 August 2019	100	0.68	10	3.5	4.5	3.4
<b>Reach F (8 Foot Inside Section):</b> From the landward extent of the 10 Foot Inside Section Reach, to a point approximately 1,170 feet landward of the Section Reach's only bend.	Map 101, Sheets 4 of 4; 23 July – 16 August 2019	100	0.19	8	5.0	4.7	5.3

**REMARKS:**

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

**GREAT SOUTH BAY - PATCHOGUE RIVER**

- **Reach D (Entrance Channel):**
  - Shoaling exists throughout the entire width of the channel for the entire length of the reach.
  - A controlling depth of 6.7 MLLW is located in the Right Outside Quarter of the channel approximately 30 feet seaward of the end of the reach.
- **Reach E (10 Foot Depth Inside Section):**
  - Shoaling exists throughout the entire width of the channel, from the beginning of the reach until approximately 970 feet from the end of the reach, where it continues throughout the Right Outside Quarter and intermittently in the Middle Half, until approximately 350 feet from the end of the reach.
  - A controlling depth of 6.4 feet MLLW exists in the Right Outside Quarter of the channel approximately 750 feet landward of the beginning of the reach.
- **Reach F (8 Foot Depth Inside Section):**
  - Shoaling exists along the toe of the channel in the Left and Right Outside Quarters from the beginning of the reach until approximately 225 feet landward of the beginning of the reach.
  - Shoaling continues in the Left and Right Outside Quarters beginning approximately 370 feet landward of the beginning of the reach and expands into the middle half of the channel approximately 185 feet landward.
  - Shoaling continues approximately 185 feet landward, where project depth is available until approximately 125 feet landward, where shoaling exists throughout the entire width of the channel for the remainder of the reach.
  - A controlling depth of 4.7 feet MLLW exists in the Middle Half of the channel approximately 135 feet from the end of the reach.