

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

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**DATE** 29 May 2019

**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:**  
Great South Bay, 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>GREAT SOUTH BAY, NEW YORK</b>							
<b>Reach A:</b> Begins at mile 0 close to the Robert Mosses Causeway Bridge at the Fire Island Inlet, and ends approximately 5 miles east at Fire Islands.	File #101 Sheets 3-9 of 26; 23 July - 16 August 2018	200	4.0	10	8.4	2.8	1.9
<b>Reach B:</b> Begins at Fire Islands at the approximate location of mile 5, and ends north east at the approximate location of mile 14 at Brown Point.	File #101 Sheets 9-23 of 26; 23 July - 16 August 2018	200 - 475	7.6	10	8.5	10.8	9.4
<b>Reach C:</b> Begins at Brown Point, located approximately at mile 14, and ends north east at the intersection with the Patchogue River.	File #101 Sheets 23-26 of 26; 23 July - 16 August 2018	200	2.2	10	9.4	9.5	9.5

**REMARKS:**

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

**GREAT SOUTH BAY**

- **Reach A:**
  - Shoaling exists in the Right Outside Quarter and Middle Half of the channel, beginning approximately 260 feet landward of the channels first bend and continues for approximately 1,275 feet landward. Intermittent shoaling exists in the Left Outside Quarter throughout the same distance.
  - Intermittent shoaling exists throughout the channel width from the approximate vicinity of G C "7" EBB TIDE to the approximate vicinity of R N "6" EBB TIDE.
  - Spot shoaling exists throughout the channel in the approximately vicinity of GR "EW" FL G EBB TIDE.
  - Shoaling exists in the Right Outside Quarter and Middle Half of the channel approximately 385 feet seaward of R "8" FL R EBB TIDE.
  - A controlling depth of 1.9 feet MLLW exists in the Right Outside Quarter of the channel approximately 1,115 feet landward of the channels first bend.

- **Reach B:**

- A shoal exists in the Left Outside Quarter of the channel in the approximate vicinity of G "19" FL G FLOOD TIDE.
- Edge shoaling exists along the toe of the channel in the Left Outside Quarter from approximately 1,220 feet seaward if G C "25" FLOOD TIDE until approximately 210 feet landward of the same.
- A controlling depth of 8.5 feet MLLW exists in the Left Outside Quarter of the channel approximately 75 feet landward of G "19" FL G FLOOD TIDE.

- **Reach C:**

- Shoaling exists throughout the entire width of the channel, from approximately 3,660 feet landward of R "34" FL R EBB TIDE until the end of the channel, with intermittent areas of project depth throughout.
- A controlling depth of 9.4 feet MLLW exists in the Left Outside Quarter of the channel approximately 940 feet seaward of G "35" FL G SLACK TIDE.