

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

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DATE 06 December 2018

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 Harbor - Main Ship Channel

**MINIMUM DEPTHS IN EACH ¼ WIDTH OF
CHANNEL ENTERING FROM SEAWARD**

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MID-CHANNEL		RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)		LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	
Reach A (Chapel Hill North Channel): From approximately 80 feet seaward of RED/GREEN JUNCTION at the channel's bend to the junction with Ambrose Channel.	Map 70 Sheets 3-6 of 6; 14-21 Sep 2018, 1-11 Oct 2018	1,000	2.2	30	28.9	28.7	26.9	26.5
Reach B (Chapel Hill South Channel): From the junction with Sandy Hook Channel approximately 800 feet seaward of RED NUN #2 to approximately 80 feet seaward of RED/GREEN JUNCTION at the channel's bend.	Map 70 Sheets 1-3 of 6; 14-21 Sep 2018, 1-11 Oct 2018	1,000	2.6	30	29.7	31.1	31.2	20.4
Reach C (Widening at Junction with Sandy Hook Channel): Located eastward of Reach B, commencing along the Main Ship Channel boundary with Sandy Hook Channel at point approximately 655 feet eastward of RED NUN #18, and concluding along the eastern boundary of Reach B at the approximate location of RED NUN #4.	Map 70 Sheet 1 of 6; 14-21 Sep 2018, 1-11 Oct 2018	Irregular	Irregular	30		27.9		

REMARKS:

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

MAIN SHIP CHANNEL:

Reach A (Chapel Hill North Channel): Shoaling exists along the channel toe of the Right Outside Quarter commencing approximately 610 feet seaward of RED NUN #14 EBB and continues landward approximately 2,645 feet, having a maximum width of approximately 90 feet. Shoaling exists along the channel toe of the Left Outside Quarter commencing approximately 475 feet landward of GREEN LIGHT #15 EBB and continues approximately 100 feet landward, having a maximum width of approximately 35 feet. Further shoaling exists along the channel toe of the Left Outside Quarter commencing approximately 1,335 feet landward of GREEN LIGHT #15 EBB and continues approximately 185 feet landward, having a maximum width of approximately 40 feet. Spot shoaling exists in the Right Outside, Right Inside, Left Outside and Left Inside Quarters of the channel from approximately 370 feet seaward of GREEN LIGHT #15 EBB to approximately 1,285 feet landward of GREEN CAN #7 EBB. The controlling depth of -26.5 feet exists approximately 385 feet landward of RED NUN #14 EBB.

Reach B (Chapel Hill South Channel): Shoaling exists in the Left Outside Quarter of the channel commencing at approximately 1,585 feet seaward from GREEN LIGHT W/GONG #5 EBB, continuing for approximately 1,005 feet landward, having a maximum width of approximately 10 feet. Shoaling exists along the channel toe of the Right Outside Quarter for much of this reach, having a maximum width of approximately 100 feet. The controlling depth of -20.4 feet exists approximately 225 feet seaward of RED LIGHT W/BELL #10 FLOOD.

Reach C (Widening at Junction with Sandy Hook Channel): A large shoal having the approximate dimensions of 1,750 feet wide by 840 feet long exists in the southwest corner of the reach. A shoal having a maximum width of approximately 50 feet exists along the boundary of the widening in the northern portion of the reach, commencing approximately 275 feet landward of RED NUN #2 and continues landward approximately 665 feet. A shoal having a maximum width of approximately 35 feet exists along the northern boundary of the eastern portion of the reach, commencing approximately at RED NUN #18 W/BELL FLOOD and continues seaward approximately 435 feet. The controlling depth of -27.9 feet exists along the northern boundary of the reach, approximately 120 feet seaward of RED NUN #18 W/BELL FLOOD.