

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

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DATE 28 March 2024

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:
Buttermilk Channel, New York

**MINIMUM DEPTHS IN EACH ¼ WIDTH OF
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 A (Southern Portion of 40 Ft. Half of Main Channel): From the junction with the Anchorage Channel at approximately 365 feet landward of RED #32 W/ LIGHT FLOOD to channel's first bend approximately 2,430 feet landward of GREEN #1 W/ LIGHT & GONG FLOOD.	File #5415/D Pgs. 2 & 4 of 5 27 & 28 February and 26 March 2024	500	0.95	40	39.9	40.1	39.1	40.0
Reach B (Northern Portion of 40 Ft. Half of Main Channel): From channel's first bend approximately 2,430 feet landward of GREEN #1 W/ LIGHT & GONG FLOOD to the channel's junction with East River, approximately 4,440 feet landward of GREEN CAN #7 EBB.	File #5415/D Pgs. 4 & 5 of 5 27 & 28 February and 26 March 2024	500	1.30	40	40.5	39.3	39.7	34.8
Reach C: Widening at junction with Red Hook Channel and Anchorage Channel. From the approximate of RED #32 W/ LIGHT FLOOD to the approximate location GREEN #11 W/LIGHT AND GONG FLOOD.	File #5415/D Pgs. 2 of 5 27 & 28 February and 26 March 2024	Irregular	Irregular	35	33.9			
Reach D (Southern Portion of 35 Ft. Half of Main Channel): From the junction with the Anchorage Channel at approximately 2,310 feet seaward of GREEN #1 W/ LIGHT & GONG FLOOD to channel's first bend approximately 2,440 feet landward of the same.	File #5415/D Pgs. 2 - 4 of 5 27 & 28 February and 26 March 2024	500	0.83	35	34.5	34.5	34.9	35.5
Reach E (Northern Portion of 35 Ft. Half of Main Channel): From channel's first bend approximately 2,440 feet landward of GREEN #1 W/ LIGHT & GONG FLOOD to the channel's junction with East River, approximately 3,615 feet landward of GREEN CAN #7 EBB.	File #5415/D Pgs. 4 & 5 of 5 27 & 28 February and 26 March 2024	500	1.20	35	31.1	33.2	37.5	37.1
Reach F: Widening at junction with Anchorage Channel to approximately GREEN #1 W/ LIGHT & GONG FLOOD.	File #5415/D Pgs. 2 & 3 of 5 27 & 28 February and 26 March 2024	Irregular	Irregular	35	35.3			
Reach G: Widening at junction with East River, commencing approximately 2,355 feet landward of GREEN CAN #7 EBB.	File #5415/D Pgs. 5 of 5 27 & 28 February and 26 March 2024	Irregular	Irregular	35	35.1			

REMARKS:

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

BUTTERMILK CHANNEL:

- **Reach A:** No shoaling exists in this reach except one point at the landward end of the reach near the Right Inside and Outside Quarters. The controlling depth of -39.1 feet MLLW exists in the Right Inside Quarter at the end of the reach.
- **Reach B:** Isolated edge shoaling exists in the Left Inside Quarter near the end of this reach. The controlling depth of -34.8 feet MLLW exists in the Left Outside Quarter along the channel's toe, approximately 245 feet seaward of the end of the reach.
- **Reach C:** Some spot shoaling exists near the center of this reach. The controlling depth of -33.9 feet MLLW exists in the vicinity of the southernmost corner, approximately 370 feet northeast of GREEN #11 W/ LIGHT & GONG FLOOD.
- **Reach D:** Some spot shoaling exists in the Left Outside and Inside Quarters. The controlling depth of at least -34.9 feet MLLW exists approximately 790 feet southwest of GREEN #1 W/ LIGHT & GONG FLOOD.
- **Reach E:** Sporadic edge shoaling exists in the Left Outside Quarter of this reach. The controlling depth of -31.1 feet MLLW exists in the Left Outside Quarter of this reach, adjacent to CAN #5 EBB.
- **Reach F:** No shoaling exists in this reach. The controlling depth of at least -35.0 feet MLLW exists within the entire Reach.
- **Reach G:** No shoaling exists in this reach. The controlling depth of at least -35.0 feet MLLW exists within the entire Reach.