

REPORT OF CHANNEL CONDITIONS (FOR CHANNELS 400 FEET WIDE OR GREATER)						PAGE	1	OF	2
						DATE	09 December 2021		
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 the approximate locations of RED #32 W/ LIGHT EBB to channel's first bend approximately 2,400 feet landward of GREEN #1 W/ LIGHT & GONG FLOOD.	File #5118/N3 Pg. 1 of 2; 15-16 November 2021	500	0.95	40	37.8	38.0	38.3	38.0	
Reach B (Northern Portion of 40 Ft. Half of Main Channel): From channel's first bend approximately 2,400 feet landward of GREEN #1 W/ LIGHT & GONG EBB to the channel's junction with East River, approximately 3,600 feet landward of GREEN CAN #7 EBB.	File #5118/N3 Pg. 1 & 2 of 2; 15-16 November 2021	500	1.30	40	40.7	38.8	39.6	35.3	
Reach C: Widening at junction with Red Hook Channel and Anchorage Channel. From RED #32 W/LIGHT EBB to a point approximately 4,500 feet landward of the same.	File #5118/N3 Pg. 1 of 2; 15-16 November 2021	Irregular	Irregular	35	29.4				
Reach D (Southern Portion of 35 Ft. Half of Main Channel): From the junction with the Anchorage Channel at the approximate locations of RED #2 W/ LIGHT EBB to channel's first bend approximately 2,350 feet landward of GREEN #1 W/ LIGHT & GONG EBB.	File #5118/N3 Pg. 1 of 2; 15-16 November 2021	500	0.83	35	31.5	32.3	33.2	33.8	
Reach E (Northern Portion of 35 Ft. Half of Main Channel): From channel's first bend approximately 2,325 feet landward of GREEN #1 W/ LIGHT & GONG EBB to the channel's junction with East River, approximately 3,470 feet landward of GREEN CAN #7 EBB.	File #5118/N3 Pg. 1 & 2 of 2; 15-16 November 2021	500	1.20	35	30.9	35.3	37.5	36.7	
Reach F: Widening at junction with Anchorage Channel to approximately GREEN #1 W/ LIGHT & GONG EBB.	File #5118/N3 Pg. 1 of 2; 15-16 November 2021	Irregular	Irregular	35	32.1				
Reach G: Widening at junction with East River, commencing approximately 2,210 feet landward of GREEN CAN #7 EBB.	File #5118/N3 Pg. 2 of 2; 15-16 November 2021	Irregular	Irregular	35	34.9				
REMARKS:									
<ul style="list-style-type: none"> All reported depths are relative to Mean Lower Low Water (MLLW) datum. Channel reach lengths are in nautical miles. 									
BUTTERMILK CHANNEL									
<ul style="list-style-type: none"> Reach A: Shoaling exists throughout this reach. The controlling depth of -37.8 feet MLLW exists in the Left Inside Quarter approximately 2,800 feet landward of the beginning of the reach. 									

BUTTERMILK CHANNEL:

- **Reach B:** Shoaling exists in the Left Inside Quarter, Right Inside Quarter, and Right Outside Quarter along the toe of the channel. The controlling depth of -35.4 feet MLLW exists in the Right Outside Quarter along the channel's toe, approximately 250 feet seaward of the end of the reach.
- **Reach C:** Shoaling exists throughout this widening. The controlling depth of -29.4 feet MLLW exists in the vicinity of the southernmost corner, approximately 325 feet seaward of the GREEN #11 W/ LIGHT & GONG EBB.
- **Reach D:** Shoaling exists throughout this reach. The controlling depth of -31.5 feet MLLW exists in the Left Outside Quarter along the channel's toe, approximately 625 feet landward of GREEN #1 W/ LIGHT & GONG EBB.
- **Reach E:** Edge shoaling exists in the Left Outside Quarter of this reach. The controlling depth of -30.9 feet MLLW exists in the Left Outside Quarter of this reach, near the channel's toe, at the approximate location of GREEN CAN #5 FLOOD.
- **Reach F:** Shoaling exists in the southeastern corner of this reach, at the junction of the widening and the main channel. The controlling depth of -32.1 feet MLLW exists along the authorized limit of the widening, approximately 230 feet from the main channel.
- **Reach G:** Minor edge shoaling exists along the northwest corner in this reach.