

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

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DATE 6 June 2017

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
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 RED #32 W/ LIGHT & BELL EBB; to channel's first bend approximately 5,755 feet landward.	Map 115 Pg. 1 of 2; 20-22 MAR. 2017	500	0.95	40	39.4	39.5	40.0	39.8
Reach B (Northern Portion of 40 Ft. Half of Main Channel): From channel's first bend approximately 5,755 feet landward of RED #32 W/ LIGHT & BELL EBB; to the channel's junction with East River.	Map 115 Pg. 1 & 2 of 2; 20-22 MAR. 2017	500	1.30	40	40.5	38.9	39.8	35.3
Reach C: Widening at junction with Red Hook Channel and Anchorage Channel. From approximately RED #32 W/LIGHT & BELL EBB to approximately GREEN #11 W/LIGHT & GONG EBB.	Map 115 Pg. 1 of 2; 20-22 MAR. 2017	Irregular	Irregular	35	33.4			
Reach D (Southern Portion of 35 Ft. Half of Main Channel): From the junction with the Anchorage Channel at approximately RED #32 W/ LIGHT & BELL EBB; to channel's first bend approximately 5,080 feet landward.	Map 115 Pg. 1 of 2; 20-22 MAR. 2017	500	0.83	35	34.4	34.5	35.0	34.9
Reach E (Northern Portion of 35 Ft. Half of Main Channel): From channel's first bend approximately 5,080 feet landward of RED #32 W/ LIGHT & BELL EBB; to the channel's junction with East River.	Map 115 Pg. 1 & 2 of 2; 20-22 MAR. 2017	500	1.20	35	31.5	35.6	37.5	36.1
Reach F: Widening at junction with Anchorage Channel to approximately GREEN #1 W/ LIGHT & GONG EBB.	Map 115 Pg. 1 of 2; 20-22 MAR. 2017	Irregular	Irregular	35	34.0			
Reach G: Widening at junction with East River.	Map 115 Pg. 2 of 2; 20-22 MAR. 2017	Irregular	Irregular	35	35.3			

REMARKS:

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

BUTTERMILK CHANNEL

- **Reach A:**
 - Intermittent spot shoaling exists along the reach toe of the Left Outside Quarter commencing approximately 755 feet seaward of GREEN #1 W/ LIGHT & GONG EBB and continues approximately 2,145 feet landward.
 - A spot shoal exists along the Left Inside Quarter approximately at GREEN #1 W/ LIGHT & GONG EBB. Spot shoaling exists along the Right Outside Quarter commencing approximately 700 feet seaward of GREEN #1 W/ LIGHT & GONG EBB and continues approximately 130 feet landward.
 - The controlling depth of -39.4 feet MLLW exists along the Left Outside Quarter approximately 1265 feet seaward of GREEN #1 W/ LIGHT & GONG EBB.

BUTTERMILK CHANNEL:

- **Reach B:**
 - Spot shoaling exists along the Left Inside and Right Inside Quarters commencing approximately 165 feet seaward of the landward terminus of the channel and continues approximately 165 feet landward.
 - Intermittent shoaling exists along the channel toe of the Right Outside Quarter commencing approximately 465 feet landward of the seaward terminus of the reach and continues to the landward terminus of the reach, having a maximum width of approximately 110 feet.
 - The controlling depth of -35.3 feet MLLW exists along the Right Outside Quarter approximately 245 feet seaward of the landward terminus of the reach.
- **Reach C:**
 - Shoaling exists within the reach commencing approximately 640 feet northwest of GREEN #11 W/ LIGHT & GONG EBB and continues towards GREEN #11 W/ LIGHT & GONG EBB.
 - The controlling depth of -33.4 feet MLLW exists approximately 395 feet northwest of GREEN #11 W/ LIGHT & GONG EBB.
- **Reach D:**
 - Spot shoaling exists in all Quarters commencing approximately 550 feet seaward of GREEN #1 W/ LIGHT & GONG EBB and continues approximately 1,660 feet landward.
 - Shoaling spans the entire width of the Left Outside Quarter commencing approximately 335 feet landward of GREEN #1 W/ LIGHT & GONG EBB and continues approximately 250 feet landward.
 - The controlling depth of -34.4 feet MLLW exists along the Left Outside Quarter approximately 570 feet landward of GREEN #1 W/ LIGHT & GONG EBB.
- **Reach E:**
 - Shoaling exists along the channel toe of the Left Outside Quarter commencing approximately 90 feet seaward of WHITE NON ATON MARKERS EBB and continues approximately 450 feet landward, having a maximum width of approximately 70 feet.
 - Spot shoaling exists along the channel toe of the Left Outside Quarter approximately 1,200 feet landward of GREEN CAN #7 EBB.
 - The controlling depth of -31.5 feet MLLW exists along the Left Outside Quarter approximately 55 feet landward of WHITE NON ATON MARKERS EBB.
- **Reach F:**
 - Spot shoaling exists along the southeast boundary of the reach commencing approximately 550 feet seaward of GREEN #1 W/ LIGHT & GONG EBB and continues landward approximately 350 feet.
 - Shoaling exists along the northeastern boundary of the reach approximately 535 feet northwest of GREEN #1 W/ LIGHT & GONG EBB and continues approximately 760 feet landward, towards Reach D, having a maximum width of approximately 15 feet.
 - The controlling depth of -34.0 feet MLLW exists along the northeastern boundary of the reach approximately 370 feet northwest of GREEN #1 W/ LIGHT & GONG EBB.
- **Reach G:**
 - No shoaling exists in the reach.

