

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

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**DATE** 28 March 2016

**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)				
<b>Reach A (Southern Portion of 40 Ft. Half of Main Channel):</b> From the junction with the Anchorage Channel at approximately RED #32 W/ LIGHT FLOOD; to channel's first bend approximately 5,760 feet into the channel.	Map 114 Pg. 1 of 2; 1, 3-5, 8 FEB. 2016	500	0.95	40	39.1	39.0	39.9	38.5
<b>Reach B (Northern Portion of 40 Ft. Half of Main Channel):</b> From channels first bend approximately 5,760 feet into the channel; to the channel's junction with East River.	Map 114 Pg. 1 & 2 of 2; 1, 3-5, 8 FEB. 2016	500	1.30	40	40.5	38.9	39.7	34.8
<b>Reach C:</b> Widening at junction with Red Hook Channel and Anchorage Channel. From approximately RED #32 W/LIGHT FLOOD to approximately GREEN #11 W/LIGHT & GONG FLOOD.	Map 114 Pg. 1 of 2; 1, 3-5, 8 FEB. 2016	Irregular	Irregular	35	34.3			
<b>Reach D (Southern Portion of 35 Ft. Half of Main Channel):</b> From the junction with the Anchorage Channel at approximately RED #32 W/ LIGHT FLOOD; to channel's first bend approximately 5,080 feet into the channel.	Map 114 Pg. 1 of 2; 1, 3-5, 8 FEB. 2016	500	0.83	35	34.4	34.4	34.4	34.4
<b>Reach E (Northern Portion of 35 Ft. Half of Main Channel):</b> From channels first bend approximately 5,080 feet into the channel; to the channel's junction with East River.	Map 114 Pg. 1 & 2 of 2; 1, 3-5, 8 FEB. 2016	500	1.20	35	33.6	34.4	36.0	23.6
<b>Reach F:</b> Widening at junction with Anchorage Channel and ends approximately at GREEN #1 W/ LIGHT & GONG EBB.	Map 114 Pg. 1 of 2; 1, 3-5, 8 FEB. 2016	Irregular	Irregular	35	34.0			
<b>Reach G:</b> Widening at junction with East River.	Map 114 Pg. 2 of 2; 1, 3-5, 8 FEB. 2016	Irregular	Irregular	35	35.8			

**REMARKS:**

- All reported depths are relative to Mean Lower Low Water datum.
- Channel reach lengths are in nautical miles.
- **Reach A:** Spot shoaling exists in all Quarters beginning approximately 1,160 feet seaward of GREEN #1 W/ LIGHT & GONG EBB and ends approximately 1,320 feet landward of GREEN #1 W/ LIGHT & GONG EBB.
- **Reach B:** Spot shoaling exists in the RIGHT INSIDE QUARTER and LEFT INSIDE QUARTER at the end of reach, having dimensions of approximately 22 feet by 50 feet for the LEFT INSIDE QUARTER and 4 feet by 8 feet for the RIGHT INSIDE QUARTER. Also, shoaling exists at two spots at the end of the reach in the RIGHT OUTSIDE QUARTER, the most seaward spot has dimensions of approximately 115 feet by 115 feet and the second, most landward, has dimensions of approximately 130 feet by 50 feet.

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**BUTTERMILK CHANNEL:**

- **Reach C:** Spot shoaling exists approximately 2,100 feet northwest of GREEN #11 W/ LIGHT & GONG FLOOD and extends southeast approximately 600 feet. Spot Shoaling also exists in the southeast corner of the widening beginning approximately 370 feet northwest of GREEN #11 W/ LIGHT & GONG and continues northwest for approximately 250 feet, having a maximum width of approximately 150 feet.
- **Reach D:** Spot shoaling exists in all Quarters beginning approximately 380 feet seaward of GREEN #1 W/ LIGHT & GONG EBB and ends approximately 1,320 feet landward of GREEN #1 W/ LIGHT & GONG.
- **Reach E:** Shoaling exists in the LEFT OUTSIDE QUARTER along the channels toe starting approximately 200 feet seaward of GREEN CAN #5 EBB and ends approximately 20 feet landward of GREEN CAN #5 EBB, having a maximum width of approximately 50 feet. Spot shoaling also exists in the LEFT OUTSIDE QUARTER approximately between GREEN CAN #5 EBB and GREEN CAN #7 EBB.
- **Reach F:** Spot shoaling exists along the eastern most boundary of this reach commencing approximately 380 feet seaward of GREEN #1 W/ LIGHT & GONG EBB and continues landward to the eastern boundary of the reach. Shoaling also exists along the eastern most edge of the reach starting approximately 500 feet north west of GREEN #1 W/LIGHT & GONG EBB and continues along the eastern most edge of the reach for approximately 225 feet north with an approximate maximum width of 40 feet.
- **Reach G:** No shoaling is present.

