

**REPORT OF CHANNEL CONDITIONS  
400 FEET WIDE OR GREATER  
(ER 1130-2-306)**

**PAGE** 1 **OF** 2

**DATE** August 8, 2012

**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 Red #32 w/ Light & Bell; to channel's first bend approximately 5,750 feet into the channel.	Map 107 Pg 1 of 2; 28 & 29 June 2012 and 2 & 3 July 2012	500	0.70	40	39.3	39.6	39.7	39.9
<b>Reach B (Northern Portion of 40 Ft. Half of Main Channel):</b> From channel's first bend approximately 5,750 feet into the channel; to the channel's junction with East River.	Map 107 Pg 1 & 2 of 2; 28 & 29 June 2012 and 2 & 3 July 2012	500	1.30	40	40.6	40.5	40.7	35.6
<b>Reach C:</b> Widening at junction with Red Hook Channel and Anchorage Channel. From Red #32 w/ Light & Bell to Green #11 w/ light & gong.	Map 107 Pg 1 of 2; 28 & 29 June 2012 and 2 & 3 July 2012	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 Red #32 w/ Light & Bell; to channel's first bend approximately 5,070 feet into the channel.	Map 107 Pg 1 of 2; 28 & 29 June 2012 and 2 & 3 July 2012	500	0.70	35	34.8	34.7	35.1	35.5
<b>Reach E (Northern Portion of 35 Ft. Half of Main Channel):</b> From channel's first bend approximately 5,070 feet into the channel to the channel's junction with East River.	Map 107 Pg 1 & 2 of 2; 28 & 29 June 2012 and 2 & 3 July 2012	500	1.30	35	32.0	34.5	37.4	37.2
<b>Reach F:</b> Widening at junction with Anchorage Channel.	Map 107 Pg 1 of 2; 28 & 29 June 2012 and 2 & 3 July 2012	Irregular	Irregular	35	34.2			
<b>Reach G:</b> Widening at junction with East River.	Map 107 Pg 2 of 2; 28 & 29 June 2012 and 2 & 3 July 2012	Irregular	Irregular	35	36.3			

**REMARKS:**

- All depths in Mean Lower Low Water.
- Channel length is in nautical miles.

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**BUTTERMILK CHANNEL:**

- **Reach A:** Sporadic shoaling exists across all four quarters commencing approximately at GREEN #1 W/ LIGHT & GONG and continues seaward for approximately 1,200 feet. Shoaling exists in the Left Outside Quarter beginning approximately 340 feet seaward of GREEN #1 W/ LIGHT & GONG and continues landward for approximately 1,050 feet, having an approximate maximum width of approximately 20 feet.
- **Reach B:** Shoaling exists in the Right Outside Quarter beginning approximately 3,665 feet landward of GREEN CAN #7 and continues approximately 110 feet landward. Another shoal exists in the Right Outside Quarter beginning approximately 4,400 feet landward of GREEN CAN #7 and continues landward for approximately 130 feet.
- **Reach C:** Shoaling exists beginning approximately 1,755 feet North West of GREEN #11 W/ LIGHT & GONG and continues for approximately 220 feet along the channel line. Shoaling exists beginning approximately 365 feet North West of GREEN #11 W/ LIGHT & GONG and continues for approximately 145 feet along the channel line.
- **Reach D:** Shoaling exists across the Left Outside Quarter and the Left Inside Quarter beginning approximately 410 feet landward of GREEN #1 W/ LIGHT & GONG and continues landward for approximately 355 feet having an approximate maximum width of 100 feet.
- **Reach E:** Shoaling exists in the Left Outside Quarter of this reach beginning approximately 220 feet seaward of GREEN CAN #5 and continues landward for approximately 425 feet.
- **Reach F:** Shoaling exists in the eastern most section of this reach beginning approximately 190 feet north of GREEN #1 W/ LIGHT & GONG and continues north for approximately 250 feet along the same boundary. Shoaling exists again in the eastern most section along the channel's toe beginning approximately 550 feet north of GREEN #1 W/ LIGHT & GONG and continues north for approximately 250 feet along the same boundary.
- **Reach G:** No shoaling exists in this reach.