

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

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DATE January 4, 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)				
Reach A (Southern Portion of 40 Ft. Half of Main Channel): From the junction with the Anchorage Channel; to channel's first bend approximately 5,750 feet into the channel.	Map 105 Pg 1 of 2; 29 Sept. 3, 5 Oct 2011	500	0.95	40	39.2	39.7	40.0	39.9
Reach B (Northern Portion of 40 Ft. Half of Main Channel): From channel's first bend approximately 5,750 feet into the channel; to the channel's junction with the East River.	Map 105 Pg 1 and 2 of 2; 29 Sept. 3, 5 Oct 2011	500	1.30	40	40.6	40.5	40.4	35.6
Reach C: Widening at junction with Red Hook Channel and Anchorage Channel. From Red #32 W/ Light & Bell to Green #11 W/ Light and Gong.	Map 105 Pg 1 of 2; 29 Sept. 3, 5 Oct 2011	Irregular	Irregular	35	34.8			
Reach D (Southern Portion of 35 Ft. Half of Main Channel): From the junction with the Anchorage Channel; to channel's first bend approximately 5,070 feet into the channel.	Map 105 Pg 1 of 2; 29 Sept. 3, 5 Oct 2011	500	0.84	35	35.2	35.6	35.7	35.8
Reach E (Northern Portion of 35 Ft. Half of Main Channel): From channel's first bend approximately 5,070 feet into the channel to the channel's junction with East River.	Map 105 Pg 1 and 2 of 2; 29 Sept. 3, 5 Oct 2011	500	1.19	35	31.8	35.7	37.3	37.2
Reach F: Widening at junction with Anchorage Channel.	Map 105 Pg 1 of 2; 29 Sept. 3, 5 Oct 2011	Irregular	Irregular	35	34.1			
Reach G: Widening of junction with East River	Map 105 Pg 2 of 2; 29 Sept. 3, 5 Oct 2011	Irregular	Irregular	35	36.1			

REMARKS:

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

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BUTTERMILK CHANNEL:

- **Reach A:** Sporadic minor spot shoaling exists in the Left Outside Quarter, Left Inside Quarter, and Right Outside Quarter of this reach.
- **Reach B:** Shoaling exists in the Right Outside quarter of this reach beginning approximately 1,000 feet seaward of the channels end and extends approximately 125 feet landward covering virtually the entire width of the quarter. Shoaling also exists in the Right Outside Quarter of this reach 265 feet seaward of the channel for approximately 120 feet covering approximately half the width of the quarter.
- **Reach C:** Minor shoaling exists having the approximate dimensions of 325 feet by 250 feet exists at the second bend of the southern most boundary of this reach. Minor sporadic spot shoaling also exists in this reach.
- **Reach D:** No shoaling exists in this reach.
- **Reach E:** Shoaling exists approximately 880 feet seaward of Green Can #7 and extends approximately 380 feet along the channel boundary having a maximum width of approximately 70 feet. Shoaling also exists approximately 1,100 feet landward of Green Can #7 and extends approximately 150 feet landward along the channel boundary.
- **Reach F:** Shoaling exists along the eastern boundary of the widening beginning approximately at Green #1 W/ Light and Gong and extends approximately 800 feet northward along the same boundary.
- **Reach G:** No shoaling exists in this reach.