

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

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DATE 12 August 2014

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; to channel's first bend approximately 6,055 feet into the channel.	Map 110 Pg 1 of 2; 30 April, 13 & 20 May 2014	500	0.95	40	38.5	38.9	39.0	39.1
Reach B (Northern Portion of 40 Ft. Half of Main Channel): From channel's first bend approximately 6,055 feet into the channel; to the channel's junction with East River.	Map 110 Pg 1 and 2 of 2; 30 April, 13 & 20 May 2014	500	1.30	40	40.2	38.8	39.6	35.0
Reach C: Widening at junction with Red Hook Channel and Anchorage Channel. From approximately Red #32 w/ Light & Bell to approximately Green #11 w/ Light & Gong.	Map 110 Pg 1 of 2; 30 April, 13 & 20 May 2014	Irregular	Irregular	35	32.2			
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; to channel's first bend approximately 5,350 feet into the channel.	Map 110 Pg 1 of 2; 30 April, 13 & 20 May 2014	500	0.83	35	32.7	32.9	33.9	34.7
Reach E (Northern Portion of 35 Ft. Half of Main Channel): From channel's first bend approximately 5,350 feet into the channel; to the channel's junction with East River.	Map 110 Pg 1 and 2 of 2; 30 April, 13 & 20 May 2014	500	1.20	35	31.0	33.4	37.0	36.9
Reach F: Widening at junction with Anchorage Channel.	Map 110 Pg 1 of 2; 30 April, 13 & 20 May 2014	Irregular	Irregular	35	32.3			
Reach G: Widening at junction with East River.	Map 110 Pg 2 of 2; 30 April, 13 & 20 May 2014	Irregular	Irregular	35	35.1			

REMARKS:

- All depths are in Mean Lower Low Water.
- Channel length is in nautical miles.
- **Reach A:** Shoaling exists in all Quarters beginning approximately 1,120 feet seaward of GREEN #1 W/ LIGHT & GONG and continues landward for approximately 1,790 feet.
- **Reach B:** Sporadic shoaling exists in the Right Outside Quarter beginning approximately 1,060 feet seaward of the end of the reach and continues approximately 930 feet landward. Another shoal exists at the end of the Left Inside Quarter beginning approximately 35 feet seaward of the end of the reach and continues landward to the end of the reach. There is also a spot shoal in the Right Inside Quarter that begins approximately 165 feet seaward of the end of the reach and extends landward approximately 15 feet.

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BUTTERMILK CHANNEL:

- **Reach C:** Shoaling exists approximately 2,100 feet northwest of GREEN #11 W/ LIGHT & GONG and extends southeast approximately 625 feet, with a maximum width of approximately 340 feet. Shoaling also exists in the southeast corner of the widening beginning approximately 585 feet northwest of GREEN #11 W/ LIGHT & GONG and continues northwest for approximately 280 feet, having a maximum width of approximately 120 feet.
- **Reach D:** Shoaling exists in all Quarters beginning approximately 295 feet seaward of GREEN #1 W/ LIGHT & GONG and continues landward for approximately 1,440 feet.
- **Reach E:** Sporadic edge shoaling exists in the Left Outside Quarter of this reach beginning approximately 245 feet seaward of GREEN CAN #5 and continues landward for approximately 2,140 feet having a maximum width of approximately 70 feet. A spot shoal exists in the Left Inside Quarter beginning approximately 185 feet landward of GREEN CAN #5 FLOOD and extends landward approximately 20 feet.
- **Reach F:** Shoaling exists in the eastern most boundary of this reach beginning approximately 335 feet west of GREEN #1 W/ LIGHT & GONG and continues eastward to the boundary of the reach.
- **Reach G:** No shoaling exists in this reach.