

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

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DATE 23 February 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)	MID CHANNEL		RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)		LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	
Reach A (Southern Portion of 40 Ft. Half of Main Channel) (Partial): Survey coverage exists from approximately 1,480 feet landward of the junction with the Anchorage Channel to approximately 185 feet seaward of the channel's first bend.	Map 113 Pg 1 of 2; 30 Nov, 1 Dec 2015	500	0.95	40	39.1	38.9	39.5	39.4
Reach C (Partial): Survey coverage exists along the south toe from approximately 1,965 feet landward of the junction with the Anchorage Channel to the end of the reach, and along the north toe from approximately 1,935 feet landward of the Anchorage Channel to the end of the reach	Map 113 Pg 1 of 2; 30 Nov, 1 Dec 2015	Irregular	Irregular	35	34.2			
Reach D (Southern Portion of 35 Ft. Half of Main Channel) (Partial): Survey coverage exists from approximately 1,280 feet landward of the junction with the Anchorage Channel to approximately 145 feet seaward of the channel's first bend.	Map 113 Pg 1 of 2; 30 Nov, 1 Dec 2015	500	0.83	35	34.1	34.2	34.3	34.4
Reach E (Northern Portion of 35 Ft. Half of Main Channel) (Partial): Survey coverage exists in the Left Outside and Left Inside Quarters from approximately 5,045 feet seaward of the junction with the East River to approximately 1,965 feet seaward of the junction with the East River	Map 113 Pg 1&2 of 2; 30 Nov, 1 Dec 2015	500	1.19	35	34.0	33.9	*	*
Reach F (Partial): Survey coverage exists from approximately 705 feet seaward of GREEN #1 W/ LIGHT EBB to the eastern toe of the Widening	Map 113 Pg 1 of 2; 30 Nov, 1 Dec 2015	Irregular	Irregular	35	33.8			

REMARKS:

- All reported depths are relative to Mean Lower Low Water datum.
 - Channel reach lengths are in nautical miles.
 - * No survey data exists in the Right Inside and Outside Quarters.
- **Reach A (Partial):** Sporadic spot shoals exist in all Quarters, varying in length from approximately 1 to 25 feet, from approximately 1,390 feet seaward of GREEN #1 W/ LIGHT EBB to approximately 510 feet landward of GREEN #1 W/ LIGHT EBB.
 - **Reach C (Partial):** Sporadic spot shoals, ranging in length from approximately 1-20 feet, exist approximately 1,850 feet seaward of GREEN #11 W/ LIGHT EBB in an area approximately 600 feet by 300 feet. Four spot shoals, ranging in length from approximately 5-10 feet, exist approximately 250 feet seaward of GREEN #11 W/ LIGHT EBB and continues approximately 60 feet landward.
 - **Reach D (Partial):** Sporadic spot shoals exist in all Quarters, varying in length from approximately 1 to 25 feet, from approximately 370 feet seaward of GREEN #1 W/ LIGHT EBB to approximately 1,325 feet landward of GREEN #1 W/ LIGHT EBB.
 - **Reach E (Partial):** Spot shoals exist along the Left Outside Quarter toe beginning approximately 165 feet seaward of GREEN CAN #5 EBB extending approximately 270 feet landward with a maximum width of approximately 17 feet.

BUTTERMILK CHANNEL:

- **Reach F:** Spot shoals, varying in length from approximately 1 to 18 feet, exist in the east corner of the Reach beginning approximately 370 feet seaward of GREEN #1 W/ LIGHT EBB and extending landward to the end of the reach. Shoaling exists along the eastern toe of this reach commencing approximately 460 feet north of GREEN #1 W/ LIGHT EBB and continues northward for approximately 220 feet with a maximum width of approximately 13 feet.