

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

DATE: 06 April 2018

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: Hudson River Channel, New York **MINIMUM DEPTHS IN EACH ¼ WIDTH OF CHANNEL ENTERING FROM SEAWARD**

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (LOQ) (feet)	MID-CHANNEL		RIGHT OUTSIDE QUARTER (ROQ) (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)		LEFT INSIDE QUARTER (LIQ) (feet)	RIGHT INSIDE QUARTER (RIQ) (feet)	
Reach A (Center): Commences at the entrance of the channel approximately 490 feet seaward of GREEN #35 W/LIGHT, and continues to the approximate location of W.40 th St in NYC.	Map 276, Pgs. 1-5 of 11; 22-28 Dec 2017 & 2-30 Jan 2018	2,000	4.42	45	36.5	40.5	44.1	43.9
Partial Reach B (New Jersey): Commences approximately 1,400 feet landward of the entrance of the channel at a point approximately 925 feet landward of GREEN #35 W/LIGHT, and continues to a point at the approximate location of W.40 th St in NYC. A gap in survey coverage exists in portions of all four quarters of this partial reach.	Map 276, Pgs. 1-5 of 11; 22-28 Dec 2017 & 2-30 Jan 2018	200 – 850	3.84	40	23.9	26.0	29.1	32.6
Partial Reach C (New York): Commences approximately 2,240 feet landward of the entrance of the channel at the junction with the East River, and continues to a point at the approximate location of W.40 th St in NYC. A gap in survey coverage exists in portions of the ROQ of this partial reach.	Map 276, Pgs. 1-5 of 11; 22-28 Dec 2017 & 2-30 Jan 2018	485 - 1,000	4.01	40	41.3	38.5	29.9	21.3
Partial Reach D (Center): Commences at the approximate location of W.40 th St in NYC, and continues to the approximate location of Pier No. 99 around W.59 th St. A gap in survey coverage exists in portions of the ROQ of this partial reach.	Map 276, Pgs. 5-6 of 11; 22-28 Dec 2017 & 2-30 Jan 2018	2,000	0.87	48	46.2	51.7	46.1	29.3
Partial Reach E (New Jersey): Commences at the approximate location of W.40 th St in NYC, and continues to a point at the approximate location of Pier No. 99 in NYC around W.59 th St. A gap in survey coverage exists in portions of the LOQ of this partial reach.	Map 276, Pgs. 5-6 of 11; 22-28 Dec 2017 & 2-30 Jan 2018	265 - 775	0.86	40	25.1	31.8	42.9	44.1
Partial Reach F (New York): Survey coverage commences at the approximate location of W.40 th St in NYC, and continues to a point at the approximate location of Buoy (Half Sunk).	Map 276, Pgs. 5-6 of 11; 22-28 Dec 2017 & 2-30 Jan 2018	50 - 610	0.81	40	80% OF CHANNEL WIDTH 29.7			
Partial Reach G: Commences at the approximate location of Pier No. 99 in NYC around W.59 th St, and continues to a point located approximately opposite W.75 th St in NYC. A gap in survey coverage exists in a portion of the LOQ of this partial reach.	Map 276, Pgs. 6-7 of 11; 22-28 Dec 2017 & 2-30 Jan 2018	750	0.72	30	22.2	32.0	34.5	37.2
Reach H: Commences at a point located approximately opposite W.75 th St in NYC, and continues to a point located approximately 8,360 feet landward of the beginning of the reach (in the approximate vicinity of opposite W.107 th St in NYC).	Map 276, Pgs. 7-8 of 11; 22-28 Dec 2017 & 2-30 Jan 2018	750	1.38	30	21.6	27.0	28.5	30.5
Reach I: Survey coverage commences at a point located in the approximate vicinity of opposite W.107 th St in NYC, and continues to the approximate location of the Ameranda Hess Oil Terminal Wharf (in the approximate vicinity of opposite W.122 nd St in NYC).	Map 276, Pgs. 8-9 of 11; 22-28 Dec 2017 & 2-30 Jan 2018	750	0.61	30	14.7	19.4	21.9	24.7

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Hudson River Channel, New York

**MINIMUM DEPTHS IN EACH ¼ WIDTH OF
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 K: Commences at a point located approximately opposite the New York City Department of Sanitation Marine Transfer Station Barge Slip (in the approximate vicinity of opposite W.135 th St in NYC), and continues to approximately opposite W.156 th St in NYC.	Map 276, Pgs. 10 of 11; 22-28 Dec 2017 & 2-30 Jan 2018	750	0.97	30	16.8	19.7	21.8	24.2

REMARKS:

- All reported depths are relative to the Mean Lower Low Water (MLLW) datum.
- Channel reach lengths are in nautical miles.

Hudson River Channel

Reach A:

- Shoaling exists along the outside edge of the Left Outside Quarter approximately 900 feet landward of GREEN #35 W/LIGHT and continuing landward for approximately 7,050 feet.
- Some sporadic shoaling exists in the Left Inside and Right Inside Quarters at various locations throughout this reach.
- Shoaling exists along the channel's toe in the Right Outside Quarter from approximately 2,825 feet seaward of BUOY (HALF SUNK) to a point approximately 2,700 feet seaward of the same.
- The controlling depth of -36.5 feet MLLW exists within the Left Quarter of this reach, approximately 4,170 feet landward of GREEN #35 W/LIGHT .

Partial Reach B:

- Shoaling exists across the entire width of this partial reach from the beginning of the reach, to a point located approximately 4,510 feet landward of the same.
- The reach wide shoaling then tapers to only the Left Outside Quarter over approximately the next 3,500 feet, and continues to the end of the partial reach, with intermittent shoaling in the Right Inside, Left Inside, and Left Outside Quarters of this partial reach.
- The controlling depth of -23.9 feet MLLW exists within the Left Outside Quarter approximately 270 feet landward of GREEN CAN #1.

Partial Reach C:

- Shoaling exists in the Right Outside Quarter for much of this partial reach, with the shoal widening into the Right Inside Quarter at various locations throughout the reach. Within approximately the last 720 feet of this reach, the shoal widens into the Left Inside Quarter as well.
- The controlling depth of -21.3 feet MLLW exists within the Right Outside Quarter approximately 3,390 feet seaward of BUOY (HALF SUNK).

Partial Reach D:

- Shoaling exists throughout much of the Right Outside Quarter for the majority of the length of this partial reach, with the shoal intermittently extending into the Right Inside Quarter.
- Shoaling exists along the toe of the Left Outside Quarter for approximately the first 690 feet of this partial reach.
- The controlling depth of -29.3 feet MLLW exists within the Right Outside Quarter approximately 410 feet landward of BUOY (HALF SUNK).

Partial Reach E:

- Shoaling exists in the Left Outside Quarter for the entire length of this partial reach, and it extends into the Left Inside Quarter approximately 3,550 feet landward of the start of the reach.
- The controlling depth of -25.1 feet MLLW exists within the Left Outside Quarter approximately 1,060 feet seaward of the end of this partial reach.

Partial Reach F:

- Survey coverage only exists in the center 80% channel width for approximately the first 470 feet of this partial reach. Within those parameters, shoaling exists in the majority of this partial reach.
- The controlling depth of -29.7 feet MLLW exists within the center 80% channel width approximately 460 feet seaward of BUOY (HALF SUNK).

Partial Reach G:

- Shoaling exists throughout the Left Outside Quarter of the channel for this entire partial reach.
- The controlling depth of -22.2 feet MLLW exists within the Left Outside Quarter approximately 1,980 feet landward of the start of this partial reach.

Reach H:

- Shoaling exists in the Left Outside and Inside Quarters approximately 2,925 feet landward of the 79th STREET BOAT BASIN and continues to the end of the reach.
- Sporadic shoaling exists in the Right Inside Quarter approximately 3,720 feet landward of the 79th STREET BOAT BASIN and continues to the end of the reach.
- The controlling depth of -21.6 feet MLLW exists within the Left Outside Quarter approximately 7,215 feet landward of the 79th STREET BOAT BASIN.

Reach I:

- Shoaling exists across the majority of the channel's width throughout the length of this reach.
- The controlling depth of -14.7 feet MLLW exists within the Left Outside Quarter approximately 2,610 feet landward of the start of this reach.

Partial Reach J:

- Shoaling exists across the channel's entire width throughout the entire length of this partial reach.
- The controlling depth of -14.9 feet MLLW exists within the Left Outside Quarter approximately 845 feet landward of the start of this reach.

Reach K:

- Shoaling exists across the entire width of the channel for approximately the first 1,430 feet of the reach. Shoaling then begins to taper, and authorized project depth becomes available across the channel's entire width for approximately the last 1,660 feet of this reach.
- The controlling depth of -16.8 feet MLLW exists within the Left Outside Quarter at the approximate location of the start of the reach.