

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

DATE: 15 December 2021

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 365 feet seaward of GREEN #35 W/LIGHT & GONG, and continues to the approximate location of W.40 th St in NYC.	File No. 5106/D/N3; Pgs. 1-5 of 11; 29-30 Sept 2021	2,000	4.42	45	35.2	41.2	43.9	37.8
Reach B (New Jersey): Commences approximately 1,035 feet landward of GREEN #35 W/LIGHT & GONG, and continues to a point at the approximate location of W.40 th St in NYC.	File No. 5106/D/N3; Pgs. 1-5 of 11; 29-30 Sept 2021	215 - 850	3.84	40	18.3	26.3	28.9	31.5
Reach C (New York): Commences approximately 2,130 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.	File No. 5106/D/N3; Pgs. 1-5 of 11; 29-30 Sept 2021	487 - 1,000	4.01	40	40.6	38.3	28.6	8.0
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.	File No. 5106/D/N3; Pgs. 5-6 of 11; 29-30 Sept 2021	2,000	0.87	48	46.0	51.1	44.0	24.4
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.	File No. 5106/D/N3; Pgs. 5-6 of 11; 29-30 Sept 2021	265 - 775	0.86	40	14.1	27.8	33.7	45.0
Reach F (New York): 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.	File No. 5106/D/N3; Pgs. 5-6 of 11; 29-30 Sept 2021	50 - 317	0.81	40	80% OF CHANNEL WIDTH			
					12.7			
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.	File No. 5106/D/N3; Pgs. 6-7 of 11; 29-30 Sept 2021	750	0.72	30	14.4	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 8,400 feet landward of the beginning of the reach (in the approximate vicinity of opposite W.107 th St in NYC).	File No. 5106/D/N3; Pgs. 7-8 of 11; 29-30 Sept 2021	750	1.38	30	21.9	26.5	28.2	30.4

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**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 I: 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).	File No. 5106/D/N3; Pgs. 8-9 of 11; 29-30 Sept 2021	750	0.61	30	11.1	20.4	22.3	24.7
Reach J: Commences at the approximate location of the Ameranda Hess Oil Terminal Wharf (in the approximate vicinity of opposite W.122 nd St in NYC), and continues to 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).	File No. 5106/D/N3; Pgs. 9-10 of 11; 29-30 Sept 2021	750	0.57	30	15.0	17.4	19.8	22.2
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.	File No. 5106/D/N3; Pg. 10 of 11; 29-30 Sept 2021	750	0.97	30	15.9	19.6	21.4	23.5

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:

- Sporadic shoaling exists throughout this reach. In addition, shoaling exists in the Left Outside Quarter at the beginning of this reach.
- The controlling depth of -35.2 feet MLLW exists in the Left Outside Quarter at approximately 930 feet seaward of GREEN CAN #1 EBB.

Reach B:

- Shoaling exists from the beginning of this reach across all four quarters before tapering to edge shoaling in the Left Outside Quarter.
- The controlling depth of -18.3 feet MLLW exists in the Left Outside Quarter at approximately 7,070 feet seaward of the end of this reach.

Reach C:

- Sporadic shoaling exists throughout this reach. Much of the shoaling exists along the Right Outside Quarter extending into the Right Inside Quarter of this reach.
- The controlling depth of -8.0 feet MLLW exists in the Right Outside Quarter at approximately 3,970 feet seaward of the end of this reach.

Reach D:

- Shoaling exists in the Right Outside and Left Outside Quarters at the beginning of this reach. Much of the shoaling exists in the Right Outside Quarter extending into the Right Inside Quarter of this reach.
- The controlling depth of -24.4 feet MLLW exists in the Right Outside Quarter at approximately 1,280 feet landward of the beginning of this reach.

Reach E:

- Shoaling exists in the Left Outside Quarter for the entire length of this reach, and extends into the Left Inside Quarter.
- The controlling depth of -14.1 feet MLLW exists in the Left Outside Quarter at approximately 815 feet seaward of the end of this reach.

Reach F:

- Shoaling exists throughout much of this reach.
- The controlling depth of -12.7 feet MLLW exists at approximately 1,955 feet seaward of the end of this reach.

Reach G:

- Shoaling exists along the channel's toe in the Left Outside Quarter for the entire length of this reach.
- The controlling depth of -14.4 feet MLLW exists in the Left Outside Quarter at approximately 185 feet landward of the beginning of this reach.

Reach H:

- Much of the shoaling exists in the second half of this reach, in the Left Outside and Left Inside Quarters with sporadic shoaling throughout this reach.
- The controlling depth of -21.9 feet MLLW exists in the Left Outside Quarter at approximately 240 feet seaward the end of this reach

Reach I:

- Shoaling exists channel wide throughout much of this reach.
- The controlling depth of -11.1 feet MLLW exists in the Left Outside Quarter at approximately 370 feet seaward of the end of this reach.

Reach J:

- Shoaling exists across the channel's entire width throughout the entire length of this reach.
- The controlling depth of -15.0 feet MLLW exists in the Left Outside Quarter approximately 2,190 feet seaward of the end of this reach.

Reach K:

- Shoaling exists in approximately the beginning half of this reach across the channel's width and then begins to taper, with authorized project depth becoming available across the channel's entire width.
- The controlling depth of -15.9 feet MLLW exists in the Left Outside Quarter near the channel's toe approximately at the beginning of this reach.