

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

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DATE 10 March 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: New York and New Jersey Channels;
Arthur Kill, NY & NJ

**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 (n miles)	DEPTH (feet)		LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	
Reach D: Begins at the approximate location of RED #18 W/LIGHT FLOOD and continues to approximately 830 feet landward of RED #24 EBB.	File No. 5017/D/N1/N3, Pg. 20-22 of 22; 18,21,22,28,29, 31 Dec 2020; 4-7,15,19 Jan 2021	550 – 1200	1.07	50	43.5	46.3	49.1	46.6
Reach F: Begins approximately 830 feet landward of RED #24 EBB and continues to approximately 240 feet seaward of the STATEN ISLAND R.R./CONRAIL BRIDGE.	File No. 5017/D/N1/N3, Pg. 18-20 of 22; 18,21,22,28,29, 31 Dec 2020; 4-7,15,19 Jan 2021	500 – 700	0.93	50	46.2	51.2	49.6	47.1
Reach G: Begins approximately 240 feet seaward of the STATEN ISLAND R.R./CONRAIL BRIDGE and continues to for approximately 4,360 feet.	File No. 5017/D/N1/N3, Pg. 17-18 of 22; 18,21,22,28,29, 31 Dec 2020; 4-7,15,19 Jan 2021	500 – 600	0.74	40	27.1	41.4	42.8	41.5
SEAWARD is oriented towards New York Harbor in the preceding reaches and to Raritan Bay in the following reaches.								
Reach H: Begins at the approximate location of RED #36 W/LIGHT FLOOD and continues to approximately 1,555 feet landward of GREEN #43 W/LIGHT EBB.	File No. 5017/D/N1/N3, Pg. 14-17 of 22; 18,21,22,28,29, 31 Dec 2020; 4-7,15,19 Jan 2021	500 – 770	1.67	35	26.4	33.5	35.6	27.8
Reach I: Begins at the approximate location of RED #30 W/LIGHT EBB and continues to the approximate location of RED #36 W/LIGHT FLOOD.	File No. 5017/D/N1/N3, Pg. 12-14 of 22; 18,21,22,28,29, 31 Dec 2020; 4-7,15,19 Jan 2021	500 – 600	0.85	35	28.2	36.2	36.0	32.3
Reach J: Begins approximately 60 feet landward of GREEN #21 W/LIGHT FLOOD and continues to the approximate location of RED #30 W/LIGHT EBB.	File No. 5017/D/N1/N3, Pg. 9-12 of 22; 18,21,22,28,29, 31 Dec 2020; 4-7,15,19 Jan 2021	500	1.66	35	30.6	34.0	35.7	31.8
Reach K: Begins approximately 70 feet landward of GREEN #11 W/LIGHT EBB and continues to approximately 60 feet landward of GREEN #21 W/LIGHT FLOOD.	File No. 5017/D/N1/N3, Pg. 5-9 of 22; 18,21,22,28,29, 31 Dec 2020; 4-7,15,19 Jan 2021	500 – 850	1.82	35	27.2	33.4	34.1	23.7

Reach L: Begins approximately 85 feet landward of GREEN #5 W/LIGHT EBB and continues to approximately 70 feet landward of GREEN #11 W/LIGHT EBB.	File No. 5017/D/N1/N3, Pg. 4-5 of 22; 18,21,22,28,29, 31 Dec 2020; 4-7,15,19 Jan 2021	600 – 800	0.80	35	30.0	33.5	33.8	30.9
Partial Reach M: Survey coverage begins approximately 625 feet seaward of RED #2 W/LIGHT EBB and continues to approximately 85 feet landward of GREEN BOUY #5 W/LIGHT FLOOD.	File No. 5017/D/N1/N3, Pg. 2-4 of 22; 18,21,22,28,29, 31 Dec 2020; 4-7,15,19 Jan 2021	600-850	0.96	35	33.9	35.3	36.3	31.0

REMARKS:

- All reported depths are relative to Mean Lower Low Water (MLLW) datum.
- Channel reach lengths are in nautical miles.
- Landward is oriented towards the intersection of Reaches G and H, where authorized project depth changes from 40 to 35 feet.

ARTHUR KILL:

- **REACH D:** Shoaling exists in the Right Outside Quarter extending into the Right Inside Quarter and in the Left Outside Quarter extending into the Left Inside Quarter.–The controlling depth of -43.5 feet MLLW exists near the toe of the channel in Left Outside Quarter, approximately 1,465 feet seaward of GREEN/RED JUNCTION "A" FLOOD.
 - **REACH F:** Shoaling exists in the Right Outside and Left Outside Quarters. Shoaling also exists at the border between Reach F and Reach G. The controlling depth of -46.2 feet MLLW exists near the toe of the channel in the Left Outside Quarter, approximately 1,750 feet landward from the beginning of this reach.
 - **REACH G:** Shoaling exists in the Left Outside Quarter around the GOETHALS BRIDGE abutment. The controlling depth of -27.1 feet MLLW exists near the toe of the channel in the Left Outside Quarter, approximately 845 feet landward of the beginning of this reach.
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- **REACH H:** Sporadic shoaling exists along the channel's toe in the Left Outside and Right Outside Quarter and in the Left Outside Quarter. The controlling depth of -26.4 feet MLLW exists near the toe of the channel in the Left Outside Quarter, approximately 1,535 feet seaward of GREEN BOUY #43 W/LIGHT EBB.
 - **REACH I:** Sporadic shoaling exists along the channel's toe in the Left Outside and Right Outside Quarter.–The controlling depth of -28.2 feet MLLW exists near the toe of the channel in the Left Outside Quarter, approximately 1,345 feet landward of RED #32 W/LIGHT EBB.
 - **REACH J:** Sporadic shoaling exists in the Left Inside Quarter. Edge shoaling exists in the Left Outside Quarter and the Right Outside Quarter.–The controlling depth of -30.6 feet MLLW exists near the toe of the channel in the Left Outside Quarter, approximately 1,000 feet landward of the beginning of this reach.
 - **REACH K:** Sporadic shoaling exists in the Left Inside Quarter. Shoaling exists in the Left Outside Quarter and the Right Outside Quarter extending into the Right Inside Quarter of this reach.–The controlling depth of -23.7 feet MLLW exists near the toe of the channel in the Right Outside Quarter, approximately 1020 feet seaward of RED #20 W/LIGHT EBB.
 - **REACH L:** The majority of shoaling exists in the Left Outside Quarter and the Right Outside Quarter. Sporadic shoaling exists throughout all four quarters of this reach.–The controlling depth of -30.0 feet MLLW exists near the toe of the channel in the Left Outside Quarter, approximately 1,515 feet seaward of GREEN #11 W/LIGHT EBB.
 - **PARTIAL REACH M:** Shoaling exists in the Right Outside Quarter of this channel. The controlling depth of -31.0 feet exists along the toe of the channel in the Right Outside Quarter approximately 300 seaward of the end of the reach.

