

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

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DATE 1 May 2020

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 BOUY #18 W/LIGHT EBB and continues to approximately 805 feet landward of RED #24 NUN EBB.	File No. 1410, Pg. 20-22 of 22; 22 Jan; 1, 13, 15, 19-22, 26, 27 Feb 2019	550 – 1200	1.07	50	44.8	46.9	49.6	47.7
Reach F: Begins approximately 805 feet landward of RED #24 NUN EBB and continues to approximately 240 feet seaward of the STATEN ISLAND R.R./CONRAIL BRIDGE.	File No. 1410, Pg. 18-20 of 22; 22 Jan; 1, 13, 15, 19-22, 26, 27 Feb 2019	500 – 700	0.93	50	47.0	51.5	49.9	47.9
Reach G: Begins approximately 240 feet seaward of the STATEN ISLAND R.R./CONRAIL BRIDGE and continues to approximately 1,630 feet landward of GREEN BOUY #43 W/LIGHT FLOOD.	File No. 1410, Pg. 17-18 of 22; 22 Jan; 1, 13, 15, 19-22, 26, 27 Feb 2019	500 – 600	0.74	40	27.1	41.6	42.8	42.2
SEAWARD is oriented towards New York Harbor in the preceding reaches and to Raritan Bay in the following reaches.								
Reach H: Begins the approximate location of RED BOUY #36 W/LIGHT FLOOD and continues to approximately 1,630 feet landward of GREEN BOUY #43 W/LIGHT FLOOD.	File No. 1410, Pg. 14-17 of 22; 22 Jan; 1, 13, 15, 19-22, 26, 27 Feb 2019	500 – 770	1.67	35	26.7	34.0	36.4	27.7
Reach I: Begins approximately 55 feet seaward of RED BOUY #30 EBB and continues to the approximate location of RED BOUY #36 W/LIGHT FLOOD.	File No. 1410, Pg. 12-14 of 22; 22 Jan; 1, 13, 15, 19-22, 26, 27 Feb 2019	500 – 600	0.85	35	29.8	36.6	36.2	32.0
Reach J: Begins approximately 55 feet landward of GREEN BOUY #21 W/LIGHT FLOOD and continues to approximately 55 feet seaward of RED BOUY #30 EBB.	File No. 1410, Pg. 9-12 of 22; 22 Jan; 1, 13, 15, 19-22, 26, 27 Feb 2019	500	1.66	35	31.4	34.3	36.2	33.4
Reach K: Begins at the approximate location of GREEN BOUY #11 W/LIGHT SLACK and continues to approximately 55 feet landward of GREEN BOUY #21 W/LIGHT FLOOD.	File No. 1410, Pg. 5-9 of 22; 22 Jan; 1, 13, 15, 19-22, 26, 27 Feb 2019	500 – 850	1.82	35	28.1	33.8	34.5	23.1

<p>Reach L: Begins approximately 95 feet landward of GREEN BOUY #5 W/LIGHT FLOOD and continues to the approximate location of GREEN BOUY #11 W/LIGHT SLACK.</p>	<p>File No. 4913/N3, Pg. 4-5 of 22; 31 Jan; 04-06, 10-12 Feb 2020</p>	<p>600 – 800</p>	<p>0.80</p>	<p>35</p>	<p>30.4</p>	<p>33.9</p>	<p>34.2</p>	<p>31.2</p>
<p>Partial Reach M: Survey coverage begins approximately 850 feet seaward of RED BUOY #2 W/LIGHT EBB and continues to approximately 95 feet landward of GREEN BOUY #5 W/LIGHT FLOOD.</p>	<p>File No. 4913/N3, Pg. 2-4 of 22; 31 Jan; 04-06, 10-12 Feb 2020</p>	<p>600 – 850</p>	<p>1.18</p>	<p>35</p>	<p>33.7</p>	<p>35.5</p>	<p>36.2</p>	<p>31.5</p>

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 -44.8 feet MLLW exists near the toe of the channel in Left Outside Quarter, approximately 1,475 feet seaward of GREEN/RED JUNCTION BOUY "A" EBB.
- **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 -47.0 feet MLLW exists near the toe of the channel in the Left Outside Quarter, approximately 1,350 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 110 feet seaward of the GOETHALS BRIDGE.

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- **REACH H:** Sporadic shoaling exists in the Left Inside Quarter as well as along the channel's toe in the Left Outside and Right Outside Quarter. The controlling depth of -26.7 feet MLLW exists near the toe of the channel in the Left Outside Quarter, approximately 1,450 feet seaward of GREEN BOUY #43 W/LIGHT FLOOD.
 - **REACH I:** Sporadic shoaling exists along the channel's toe in the Left Outside and Right Outside Quarter. The controlling depth of -29.8 feet MLLW exists near the toe of the channel in the Left Outside Quarter, approximately 620 feet landward of the beginning of this reach.
 - **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 -31.4 feet MLLW exists near the toe of the channel in the Left Outside Quarter, approximately 950 feet landward of the beginning of this reach.
 - **REACH K:** 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 -23.1 feet MLLW exists near the toe of the channel in the Right Outside Quarter, approximately 195 feet seaward of RED BOUY #18 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 -30.4 feet MLLW exists near the toe of the channel in the Left Outside Quarter, approximately 1,515 feet seaward of GREEN BOUY #11 W/LIGHT SLACK.
 - **PARTIAL REACH M:** Edge shoaling exists in the Left Outside Quarter and the Right Outside Quarter along the channel's toe. The controlling depth of -31.5 feet MLLW exists near the toe of the channel in the Right Outside Quarter, approximately 270 feet seaward of the end of this partial reach.

