

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

PAGE 1 **OF** 4

DATE 26 May 2017

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; Outerbridge Reach to Gulfport Reach

**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)	
Partial Outerbridge Reach (Reach M): Survey coverage begins approximately 50 feet seaward of RED #2 W/LIGHT EBB and extends to approximately 25 feet landward of GREEN LIGHTED #5 EBB.	Map 1392, Pg 2 – 4 of 22; 27,30-31 Jan; 1-3,6-8,14, 16-17,27 Feb 2017	600 - 800	1.02	35	34.9	35.3	36.5	33.0
Port Secony Reach (Reach L): Begins approximately 25 feet landward of GREEN LIGHTED #5 EBB and extends to a point approximately at GREEN LIGHTED #11 EBB	Map 1392, Pg 4 – 5 of 22; 27,30-31 JAN; 1-3,6-8,14, 16-17,27 FEB 2017	600 - 800	0.84	35	33.2	35.9	35.5	32.9
Port Reading Reach (Reach K): Begins at a point approximately at GREEN LIGHTED #11 EBB and extends to approximately 35 feet landward of GREEN LIGHTED #21 FLOOD	Map 1392, Pg 5 – 9 of 22; 27,30-31 JAN; 1-3,6-8,14, 16-17,27 FEB 2017	500 - 850	1.79	35	32.0	35.2	35.5	31.5
Fresh Kills Reach (Reach J): Begins at approximately 35 feet landward of GREEN LIGHTED #21 FLOOD and extends to a point approximately 50 feet seaward of RED LIGHTED #30 EBB	Map 1392, Pg 9 – 12 of 22; 27,30-31 JAN; 1-3,6-8,14, 16-17,27 FEB 2017	500	1.65	35	33.7	35.5	36.6	33.9
Tremley Point Reach (Reach I): Begins approximately 50 feet seaward of RED LIGHTED #30 EBB and extends to a point approximately 25 feet landward of RED LIGHTED #36 EBB	Map 1392, Pg 12 – 14 of 22; 27,30-31 JAN; 1-3,6-8,14, 16-17,27 FEB 2017	500 - 600	0.84	35	31.1	38.0	37.3	33.3
Pralls Island Reach (Reach H): Begins at a point approximately 25 feet landward of RED LIGHTED #36 EBB and extends approximately 800 feet landward of GOETHALS BRIDGE.	Map 1392, Pg 14 – 16 of 22; 27,30-31 JAN; 1-3,6-8,14, 16-17,27 FEB 2017	500 - 770	1.67	35	31.8	35.1	36.8	30.7
Gulfport Reach (Reach G): Begins approximately 800 feet landward of GOETHALS BRIDGE and extends to a point approximately 900 feet landward of the Staten Island R.R./Conrail Bridge	Map 1392, Pg 16 – 18 of 22; 27,30-31 JAN; 1-3,6-8,14, 16-17,27 FEB 2017	600 - 500	0.74	35	42.9	43.1	42.1	35.1

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

PAGE 2 **OF** 4

DATE 26 May 2017

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; North of Shooters Island Reach and Elizabethport Reach, NY & NJ

**MINIMUM DEPTHS IN EACH ¼ WIDTH OF
CHANNEL ENTERING FROM SEAWARD**

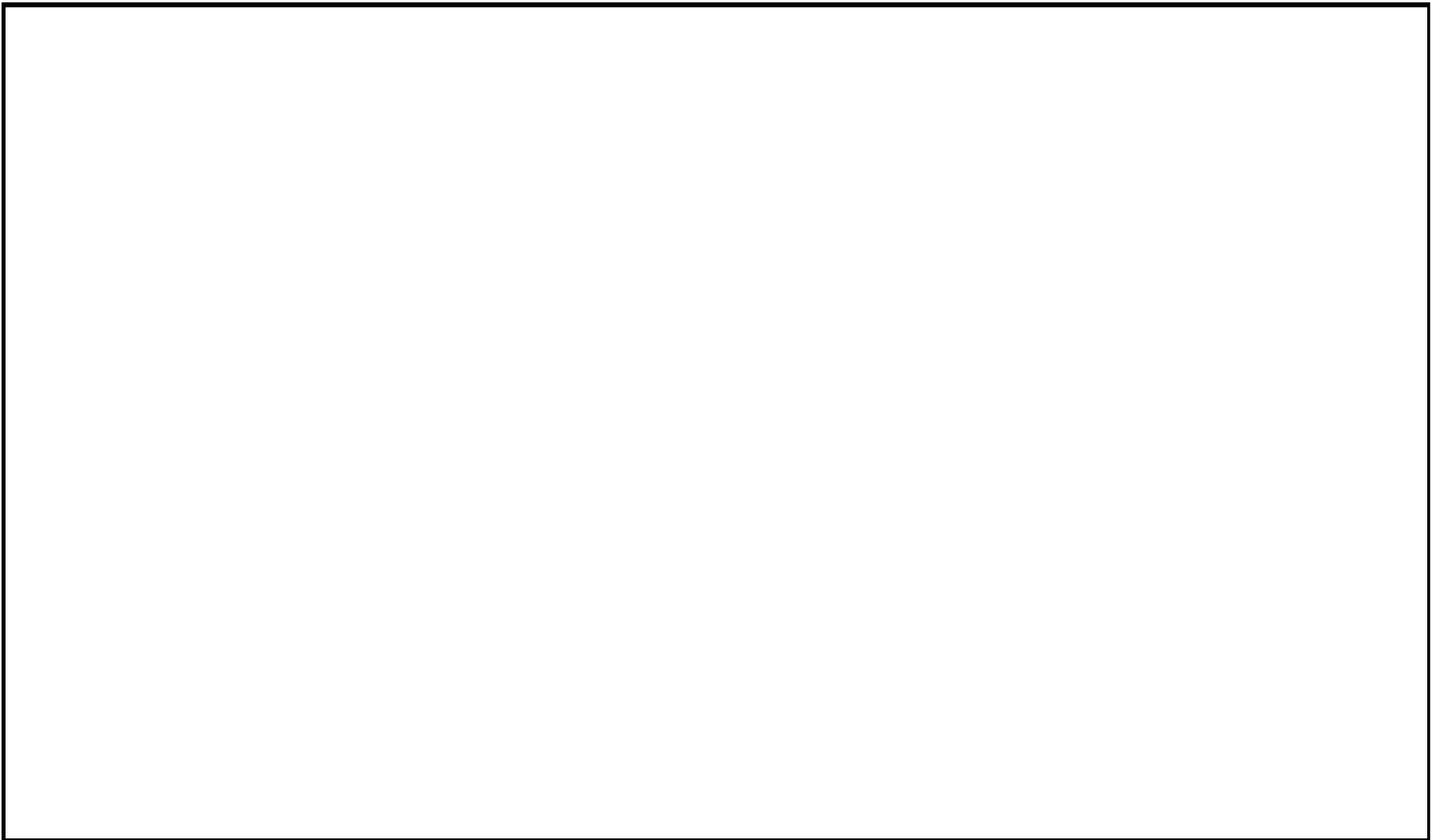
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MID-CHANNEL		RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (n miles)	DEPTH (feet)		LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	
Elizabeth Port Reach (Reach F): From a point approximately 900 feet landward of the Staten Island R.R./Conrail Bridge, to a point approximately 850 feet seaward of RED #24 NUN FLOOD	Map 1392, Pg 18 – 20 of 22; 27,30-31 JAN; 1-3,6-8,14, 16-17,27 FEB 2017	500 - 700	0.94	50	51.5	50.7	49.7	49.5
North of Shooters Island Reach (Reach D): From a point approximately 850 feet seaward of RED #24 NUN FLOOD to a point approximately at GREEN #19 W/ LIGHT EBB	Map 1392, Pg 20 – 22 of 22; 27,30-31 JAN; 1-3,6-8,14, 16-17,27 FEB 2017	570 - 940	1	50	50.8	51.5	50.2	47.9

REMARKS:

- All reported depths are relative to Mean Lower Low Water (MLLW) datum.
- Channel reach lengths are in nautical miles.
- For the purpose of this report, seaward is oriented toward the Raritan River and landward is toward the Kill Van Kull.

CHANNEL SHOALING:

- **Partial Outerbridge Reach (Reach M):**
 - Intermittent shoaling exists along the toe of the Left Outside Quarter throughout the reach.
 - Shoaling occurs along the toe of the Right Outside Quarter beginning approximately 570 feet seaward of RED LIGHT #4 EBB extends to the end of the reach, with a maximum width of approximately 50 feet, including the controlling depth of 33.0.
- **Port Secony Reach (Reach L):**
 - Shoaling exists in the Right Outside Quarter beginning at the start of the reach, approximately 615 feet seaward of RED LIGHTED #10 EBB and extends to approximately 130 feet landward of the same with a maximum width of approximately 40 feet.
 - Shoaling exists in the majority of the Left Outside Quarter beginning approximately 1775 feet seaward of GREEN LIGHTED #11 EBB and extends for 865 feet.
 - Shoaling in the Right Outside Quarter begins 410 feet landward of Red Light #10 and continues 1415 feet with a maximum width of 180 feet, past the end of the reach into Reach K, including the controlling depth of 32.9 feet.



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

PAGE 3 OF 4

DATE 26 May 2017

REMARKS:

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

CHANNEL SHOALING (continued):

- **Port Reading Reach (Reach K):**

- In the Right Outside Quarter 1355 feet of edge shoaling with a maximum width of 65 feet, starts 545 feet landward of RED LIGHT #12 EBB.
- In the Left Outside Quarter, 635 feet of edge shoaling, maximum width of 50 feet starts 405 feet landward of GREEN LIGHTED #13 EBB.
- In the Left Outside Quarter, 870 feet of edge shoaling, maximum width of 25 feet starts 1705 feet landward of GREEN LIGHTED #17 FLOOD.
- In the Right Outside Quarter, 475 feet of corner shoaling, maximum width 90 feet starts 185 landward of RED LIGHTED #18 FLOOD, including the controlling depth of 31.5 feet.
- In the Left Outside Quarter, 825 feet of edge shoaling, maximum width 25 feet starts 305 feet landward of GREEN LIGHTED #17 FLOOD.
- In the Left Inside Quarter, 115 feet of spot shoaling, starts 500 feet landward of RED LIGHTED #20 FLOOD.
- In the Right Outside Quarter, 200 feet of edge shoaling, maximum width 65 feet starts 75 feet landward of RED LIGHTED #20 FLOOD.

- **Fresh Kills Reach (Reach J):**

- In the Left Outside Quarter, 1325 feet of channel toe not surveyed due to moored barges, starts 855 feet landward of GREEN LIGHTED #21 FLOOD.
- In the Left Outside Quarter, 1900 feet of edge shoaling, maximum width 20 feet, starts 1410 feet landward of RED LIGHTED #24 FLOOD, including the controlling depth of 33.7 feet.
- In the Right Outside Quarter, 1425 feet of edge shoaling, maximum width 15 feet, starts 3440 feet seaward of RED LIGHTED #30 EBB.

- **Tremley Point Reach (Reach I):**

- In the Left Outside Quarter, 315 feet of edge shoaling, maximum width 40 feet, starts 500 feet landward of RED LIGHTED #30 EBB, including the controlling depth of 31.1 feet.
- In the Left Outside Quarter, 550 feet of edge shoaling, maximum width 25 feet, starts 1375 feet landward of RED LIGHTED #32 EBB.
- In the Right Outside Quarter, edge shoaling occurs abeam of RED LIGHTED #34 EBB.

- **Pralls Island Reach (Reach H):**

- In the Left Outside Quarter, 490 feet of edge shoaling, maximum width 15 feet, starts 1245 feet seaward of RED LIGHTED #38 EBB.
- In the Right Outside Quarter, 670 feet of edge shoaling, maximum width 50 feet, starts 435 feet landward of RED LIGHTED #38 EBB.
- In the Left Outside Quarter, 2050 feet of edge shoaling, maximum width 25 feet, starts approximately 2825 feet seaward of the end of the reach.
- In the Right Outside Quarter, 1725 feet of edge shoaling, maximum width 40 feet, starts approximately 1725 feet seaward of the end of the reach, including the controlling depth of 30.7 feet.

- **Gulfport Reach (Reach G):**

- The controlling depth of 35.1 feet occurs at the north Goethals Bridge abutment in the Right Outside Quarter.

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

PAGE 4 **OF** 4

DATE 26 May 2017

TO:
The Record

FROM:
U.S. Army Corps of Engineers
26 Federal Plaza, ATTN: CENAN-OP-ST
New York, NY 10278-0090

REMARKS:

- All reported depths are in reference to C.O.E. Mean Lower Water (MLLW) datum.
- Channel reach lengths are in nautical miles.

CHANNEL SHOALING (continued):

- **Elizabeth Port Reach (Reach F):**
 - In the Right Outside Quarter, 3150 feet of edge shoaling, maximum width 65 feet beings 3350 feet from the start of the reach and extends into Reach D, including the controlling depth of 49.5 feet.
- **North of Shooters Island Reach (Reach D):**
 - In the Right Outside Quarter, 2210 feet of edge shoaling, maximum width 166 feet, starts 465 feet landward of GREEN/RED JUNCTION BUOY "A" EBB, including the controlling depth of 47.9 feet.

