

**REPORT OF CHANNEL CONDITIONS
400 FEET WIDE OR GREATER
(ER 1130-2-306)**

PAGE 1 OF 3

DATE 29 April 2014

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
CHANNEL ENTERING FROM SEAWARD**

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (n miles)	DEPTH (feet)				
Outerbridge Reach (Reach M) (Partial): The partial reach begins approximately 915 feet seaward of Outerbridge Crossing and extends to approximately 50 feet seaward of GREEN LIGHTED #5	Map 1360, Pg 2 - 4 of 18; 7 Feb 2014 through 7 Mar 2014	600	0.93	35	30.9	35.1	36.0	33.1
Port Socony Reach (Reach L): Begins approximately 50 feet seaward of GREEN LIGHTED #5 and extends to a point approximately 30 feet landward of GREEN LIGHTED #11	Map 1360, Pg 4 - 5 of 18; 7 Feb 2014 through 7 Mar 2014	600 - 800	0.81	35	33.0	34.7	34.6	32.0
Port Reading Reach (Reach K): Begins at a point approximately 30 feet landward of GREEN LIGHTED #11 and extends to approximately 40 feet seaward of GREEN LIGHTED #21	Map 1360, Pg 5 - 9 of 18; 7 Feb 2014 through 7 Mar 2014	500 - 850	1.81	35	24.2	33.7	34.3	27.3
Fresh Kills Reach (Reach J): Begins approximately 40 feet seaward of GREEN LIGHTED #21 and extends to a point approximately 40 feet seaward of RED LIGHTED #30	Map 1360, Pg 9 - 12 of 18; 7 Feb 2014 through 7 Mar 2014	500	1.66	35	29.0	34.4	35.0	33.2
Tremley Point Reach (Reach I): Begins approximately 40 feet seaward of RED LIGHTED #30 and extends to a point approximately 75 feet landward of RED LIGHTED #36	Map 1360, Pg 12 - 14 of 18; 7 Feb 2014 through 7 Mar 2014	500	0.85	35	30.3	36.7	35.6	35.0
Pralls Island Reach (Reach H): Begins at a point approximately 75 feet landward of RED LIGHTED #36 and extends to a point approximately 1560 feet seaward of GREEN LIGHTED #43	Map 1360, Pg 14 - 16 of 18; 7 Feb 2014 through 7 Mar 2014	500	1.14	35	31.9	34.2	36.4	29.3
Gulfport Reach (Reach G)(Partial): The partial reach begins at a point approximately 1560 feet seaward of RED LIGHTED #36 and extends to a point approximately 710 feet landward of the Staten Island R.R./Conrail Bridge	Map 1360, Pg 16 - 18 of 18; 7 Feb 2014 through 7 Mar 2014	600 - 500	1.37	35	31.1	36.1	36.1	28.6

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REMARKS:

- All depths in Mean Low Water (MLW).
- Channel length is in nautical miles

Channel Shoaling:

• **Outerbridge Reach (Reach M):**

- Shoaling approximately 1,300 feet in length is present in the Left Outside Quarter beginning approximately 200 feet landward of the Outerbridge Crossing and continuing landward with a maximum width of approximately 75 feet.
- Shoaling approximately 400 feet in length is present in the Right Outside Quarter beginning approximately at RED LIGHTED #4 and continuing seaward with a maximum width of approximately 50 feet. A shoal approximately 1400 feet in length is present in the Right Outside Quarter beginning approximately 600 feet landward of RED LIGHTED #4 and continuing landward with a maximum width of approximately 50 feet.

• **Port Socony Reach (Reach L):**

- Shoaling along the right channel toe begins in the vicinity of GREEN LIGHTED #5 and ends in the vicinity of RED LIGHTED #6 with a maximum width of approximately 50 feet.
- Scattered high spots and shoaling are present across the Right Outside Quarter beginning approximately 200 feet seaward of RED NUN #8 ending at the end of the reach, at the approximate location of RED LIGHTED #12.
- Scattered high spots and shoaling are present in the Left Outside Quarter beginning approximately 1900 feet seaward of GREEN LIGHTED #11 and continuing to approximately 400 feet landward of GREEN LIGHTED #11.

• **Port Reading Reach (Reach K):**

- Extensions of scattered high spots and shoaling, approximately 200 feet from the previous reach are present in both the Right Outside Quarter and in the Left Outside Quarter.
- Scattered light spot shoaling continues in the Right Inside Quarter up to RED NUN #14.
- Shoaling along the left channel toe beginning approximately 480 feet seaward of GREEN LIGHTED #13 ending approximately 320 feet landward of the same, with a maximum width of approximately 50 feet.
- Shoaling along the right channel toe begins in the vicinity of RED NUN #14A and continues for approximately 3500 feet narrowly extending into the Right Inside Quarter, with a maximum width of approximately 150 feet.
- Shoaling along the left channel toe begins approximately 1600 feet seaward of GREEN LIGHTED #17 and continues to the end of the Reach near GREEN LIGHTED #21, with a maximum width of approximately 70 feet.
- Shoaling along the right channel toe begins approximately 250 feet seaward of RED LIGHTED #18 and continues to the vicinity of GREEN LIGHTED #21 with a maximum width of approximately 120 feet.
- Scattered spot shoals of different sizes exist in the Left Inside Quarter beginning approximately 1000 feet seaward of GREEN LIGHTED #21 and continuing landward to the end of the reach approximately 100 feet landward of GREEN LIGHTED #21.

• **Fresh Kills Reach (Reach J):**

- A shoal approximately 7500 feet in length with a maximum width of approximately 130 feet is present in the Left Outside Quarter beginning in the vicinity of GREEN LIGHTED #21 and continuing landward.
- Minor sporadic shoaling confined to the edge of the channel along the toe-line is present in the Right Outside Quarter with a maximum width of approximately 40 feet beginning approximately 1250 feet landward of RED LIGHTED #24 and continuing to the end of the Reach at RED LIGHTED #30.

• **Tremley Point Reach (Reach I):**

- A shoal approximately 200 feet in length is present in the Right Outside Quarter in the vicinity of RED LIGHTED #34, with a maximum width of approximately 20 feet.
- A shoal approximately 300 feet in length is present in the Left Outside Quarter beginning approximately 600 feet landward of RED LIGHTED #30 and continuing landward with a maximum width of approximately 50 feet.
- Sporadic shoaling and shoaling along the left channel toe begin approximately 400 feet landward of RED LIGHTED #32 and continue up to RED LIGHTED #34.
- A spot shoal approximately 100 feet in length and having a maximum width of approximately 30 feet along the right channel toe begins in the vicinity of RED LIGHTED #34.

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REMARKS CONTINUATION:

- All depths in Mean Low Water (MLW).
- Channel length is in nautical miles

Channel Shoaling:

• **Pralls Island Reach (Reach H):**

- Sporadic shoaling and high spots are present in the Right Outside Quarter, Left Outside Quarter and Left Inside Quarter beginning approximately 200 feet landward of RED LIGHTED #36 and continuing approximately 800 feet landward.
- There is a shoal approximately 800 feet in length and 40 feet wide beginning approximately 400 feet landward of RED LIGHTED #38 in the Right Outside Quarter.
- There is a long and narrow shoal approximately 2880 feet in length in the toe line of Left Outside Quarter beginning at 2,300 feet landward of RED LIGHTED #38 and continuing landward. The same shoal extends into the next reach.

• **Gulfport Reach (Reach G) (Partial):**

- An edge shoal approximately 3070 feet long is present at the Right Outside Quarter beginning approximately 1500 feet seaward of GREEN LIGHTED #43 and continuing landward with a maximum width of approximately 80 feet.
- A shoal from the previous reach extends in the Left Outside Quarter to approximately 500 feet landward of GREEN LIGHTED #43
- Sporadic edge shoaling on an approximately 1850 feet long stretch is present on the Right Outside Quarter beginning approximately 900 feet seaward of the Goethals Bridge and ending approximately 100 feet landward of the Staten Island RR/Conrail Bridge with a maximum width of approximately 75 feet.