

**REPORT OF CHANNEL CONDITIONS
400 FEET WIDE OR GREATER**

PAGE 1 **OF** 3

DATE 31 December 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,
Raritan Bay West 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)				
Raritan Bay West Reach (Reach R) PARTIAL: Survey coverage begins approximately 890 feet seaward of GREEN BUOY w/LIGHT #27 FLOOD and extends to approximately 45 feet seaward of GREEN BUOY w/LIGHT #27 FLOOD	Map 1366, Pg 2 of 2; 29,30 Sep & 1-3,6 Oct 2014	600	2.42	35	34.0	42.2	41.3	35.0
Seguine Point Reach (Reach Q) PARTIAL: Survey coverage begins approximately 45 feet seaward of GREEN BUOY w/LIGHT #27 FLOOD and extends to approximately 70 feet seaward GREEN BUOY w/LIGHT #35 EBB	Map 1366, Pg 1-2 of 2; 29,30 Sep & 1-3,6 Oct 2014	600-1030	1.23	35	33.9	35.6	35.3	17.6
Red Bank Reach (Reach P) PARTIAL: Survey coverage begins approximately 70 feet seaward of GREEN BUOY w/LIGHT #35 EBB and extends to approximately 420 feet landward of GREEN BUOY w/LIGHT #35 EBB	Map 1366, Pg 1 of 2; 29,30 Sep & 1-3,6 Oct 2014	600	1.22	35	34.2	44.6	45.7	44.5
Outerbridge Reach (Reach M) PARTIAL: Survey coverage begins approximately at Outerbridge Crossing and extends to approximately 1,865 feet landward of Outerbridge Crossing	Map 1365, Pg 1-2 of 2; 29,30 Sep & 1-3 Oct 2014	600	1.61	35	35.0	35.5	Minimal survey data	No survey data
Port Secony Reach (Reach L) PARTIAL: Survey coverage begins approximately at 570 feet seaward of RED NUNN #8 EBB and extends to a point approximately 395 feet seaward of RED BUOY #12 w/LIGHT EBB	Map 1365, Pg 1&2 of 3; 29,30 Sep, 1-3 Oct 2014	600 - 800	0.87	35	No survey data	Minimal survey data	35.1	34.1
Port Reading Reach (Reach K) PARTIAL: Survey coverage begins at a point approximately 395 feet seaward of RED BUOY #12 w/LIGHT EBB and extends to approximately 3,650 ft. seaward of RED #24 w/Light EBB	Map 1365, Pg 2 of 3; 29,30 Sep, 1-3 Oct 2014 Map 1368, Pg 1&2 of 2: 16,20-23,27,28 Oct 2014 Map 1368, Pg 1&2 of 3: 16,20-23,27,28 Oct 2014	500 - 850	1.83	35	31.7	34.6	34.9	23.0
Fresh Kills Reach (Reach J) PARTIAL: Survey coverage begins at approximately 3,650 ft. seaward of RED #24 w/Light EBB and extends to a point approximately 1,650 ft. landward of RED #24 w/LIGHT EBB	Map 1368, Pg 2&3 of 3 of 2: 16,20-23,27,28 Oct 2014	500	1.59	35	33.2	34.7	35.1	33.8

<p>Tremley Point Reach (Reach I) PARTIAL: Survey coverage begins approximately 1,040 feet seaward of RED #36 w/Light EBB and extends to a point approximately 85 feet landward of RED #36 w/Light EBB</p>	<p>Map 1368, Pg 1 of 1; 16, 20-23, 27-28 Oct 2014</p>	<p>500</p>	<p>0.98</p>	<p>35</p>	<p>34.7</p>	<p>36.6</p>	<p>35.7</p>	<p>34.0</p>
<p>Pralls Island Reach (Reach H) PARTIAL: Survey coverage begins at a point approximately 85 feet landward of RED #36 w/Light EBB and extends to a point approximately 710 feet landward of RED #38 w/Light EBB</p>	<p>Map 1368, Pg 1 of 1; 16, 20-23, 27-28 Oct 2014</p>	<p>500</p>	<p>1.13</p>	<p>35</p>	<p>34.7</p>	<p>34.6</p>	<p>36.1</p>	<p>28.9</p>
<p>Gulfport Reach (Reach G) PARTIAL: Survey coverage begins at a point approximately 2160 feet seaward of Staten Island R.R./Conrail Bridge and extends to a point approximately 250 feet landward of the Staten Island R.R./Conrail Bridge</p>	<p>Map 1368, Pg 1 of 1; 16, 20-23, 27-28 Oct 2014</p>	<p>600 – 500</p>	<p>1.24</p>	<p>35</p>	<p>34.7</p>	<p>36.8</p>	<p>37.7</p>	<p>32.4</p>

REMARKS:

- All depths in Mean Low Water (MLW).
- Channel lengths are in nautical miles
- Full survey coverage does not exist across the channel width of most of these partial reaches.

CHANNEL SHOALING:**RARITAN BAY WEST REACH (Reach R) PARTIAL:**

Edge shoaling exists in the LEFT OUTSIDE QTR. for a maximum width of 30 ft. approx. 350 feet seaward of GREEN BUOY w/LIGHT #27 FLOOD and extends to approx. 100 ft. seaward of GREEN BUOY w/LIGHT #27 FLOOD.

SEGUINE POINT BEND (Reach Q) PARTIAL:

Shoaling exists in the RIGHT OUTSIDE QTR. for a maximum width of 25 ft. from the beginning of the reach to approx. 80 ft. seaward of RED NUN #28 FLOOD. The RIGHT OUTSIDE QTR. is also shoaled for a maximum width of 60 ft. from approx. 370 ft. landward of RED BUOY w/LIGHT & BELL #30 FLOOD to approx. 1200 ft. landward of RED BUOY w/LIGHT & BELL #30 FLOOD.

RED BANK REACH (Reach P) PARTIAL:

Several minor spot shoals exist along the left side of the LEFT OUTSIDE QTR. from the beginning of the reach to approx. 260 ft. landward of GREEN BUOY w/LIGHT #35 EBB.

OUTERBRIDGE REACH (Reach M) PARTIAL:

No shoaling associated with this partial survey.

PORT SECONY REACH (Reach L) PARTIAL:

Several spot shoals exist along the right side of the RIGHT OUTSIDE QTR. from approx. 350 ft. to approx. 740 ft. landward RED NUN #8 EBB.

PORT READING REACH (Reach K) PARTIAL:

Several spot shoals exist in the RIGHT OUTSIDE QTR. from 75 ft. to 400 ft. landward of the seaward end of the reach. Shoaling exists in the LEFT OUTSIDE QTR. for a maximum width of 50 ft. approx. 470 feet seaward of GREEN BUOY w/LIGHT #13 EBB and extends to approx. 280 ft. landward of GREEN BUOY w/LIGHT #13 EBB. Shoaling also exists along the left side of the LEFT OUTSIDE QTR. for a maximum of 30 ft. from approx. 2250 ft. to approx. 3220 ft. landward of GREEN BUOY #15 w/LIGHT EBB. A spot shoal exists in the outside edge of the RIGHT OUTSIDE QTR. approx. 3770 ft. landward of RED BUOY w/LIGHT #16 EBB, which is part of an area marked as "Charted Wreck". Additional spot shoals exist in the RIGHT OUTSIDE QTR. from 3770 ft. landward to 4170 ft. landward of RED BUOY w/LIGHT #16 EBB, and a larger shoal covering up to half of the RIGHT OUTSIDE QTR. exists from 4110 feet landward to 4720 ft. landward of RED BUOY w/LIGHT #16 EBB. Scattered spot shoals exist in the LEFT INSIDE QTR. approx. 815 ft. seaward to approx. 1425 ft. seaward of the landward end of the reach, and in the last 100 ft. of the landward end of the reach. Scattered spot shoals exist in the LEFT OUTSIDE QTR. approx. 250 ft. seaward to approx. 770 ft. seaward of the landward end of the reach. Shoaling exists in the RIGHT OUTSIDE QTR. for a maximum width of 30 ft. from 370 ft. to 650 ft. seaward from the landward end of the reach.

FRESH KILLS REACH (Reach J) PARTIAL:

Scattered spot shoals exist in the right half of the LEFT INSIDE QTR. approx. 120 ft. landward to approx. 260 ft. landward of the seaward end of the reach. Scattered spot shoals exist in the LEFT OUTSIDE QTR. approx. 1110 ft. landward to approx. 2160 ft. landward of the seaward end of the reach. Shoaling also exists along the left side of the LEFT OUTSIDE QTR. from approx. 245 ft. to approx. 1650 ft. landward of RED BUOY w/LIGHT #24 EBB. Scattered spot shoals exist in the LEFT OUTSIDE QTR. approx. 75 ft. landward to approx. 300 ft. landward of RED BUOY w/LIGHT #24 EBB. Shoaling also exists along the right side of the RIGHT OUTSIDE QTR. for a maximum of 35 ft. from approx. 1260 ft. to approx. 1615 ft. landward of RED BUOY w/LIGHT #24 EBB.

TREMLEY POINT REACH (Reach I) PARTIAL:

A shoal exists along the right toe of the RIGHT OUTSIDE QTR. for a maximum width of 5 ft. from approx. 600 ft. to approx. 710 ft. seaward of RED BUOY w/LIGHT #36 EBB. A spot shoal exists in the middle of the LEFT OUTSIDE QTR. approx. 780 ft. seaward of RED BUOY w/LIGHT #36 EBB.

PRALLS ISLAND REACH (Reach H) PARTIAL:

Shoaling exists along the left side of the LEFT OUTSIDE QTR. for a maximum width of 20 ft. from approx. 200 ft. to approx. 380 ft. landward of the seaward end of the reach. A spot shoal exists in the LEFT OUTSIDE QTR. approx. 360 ft. landward the seaward end of the reach. Several spot shoals exist in the middle of the LEFT INSIDE QTR. from approx. 510 ft. to 850 ft. landward of the seaward end of the reach. Several small shoals exist along the right toe of the RIGHT OUTSIDE QTR. from the seaward end of the reach to approx. 1120 ft. from the seaward end of the reach. Shoaling exists along the right toe of the RIGHT OUTSIDE QTR. for a maximum of 50 ft. from approx. 450 ft. to approx. 690 ft. landward of RED BUOY w/LIGHT #38 EBB.

GULFPORT REACH (Reach G) PARTIAL:

Edge shoaling exists along the left side of the LEFT OUTSIDE QTR. for a maximum width of 15 ft. from approx. 545 ft. to approx. 830 ft. seaward of the channel bend. Several spot shoals exist along the right side of the RIGHT OUTSIDE QTR. from approx. 110 ft. seaward of the channel bend to approx. 150 ft. landward of the channel bend. Edge shoaling exists in the Right Outside Quarter landward of the channel bend.