

**REPORT OF CHANNEL CONDITIONS  
100 TO 400 FEET WIDE**

**PAGE** 1 **OF** 2

**DATE** 10 November 2015

**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:** Newark Bay, Hackensack & Passaic Rivers;  
Hackensack River, New Jersey

**MINIMUM DEPTHS IN  
CHANNEL ENTERING FROM SEAWARD**

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)			
<b>Reach A - Droyers Reach:</b> From junction between Hackensack and Passaic Rivers approximately 25 feet seaward of RED NUN #2, to bridge at Lincoln Highway.	Map 213 Pg 1-3 of 7; 8, 13, 14 Oct 2015	300 - 500	1.55	32*	26.7	23.4	17.8
<b>Reach B** - Marion Reach:</b> From bridge at Lincoln Highway, to the beginning of the Turning Basin approximately 1,465 feet seaward of GREEN CAN #13.	Map 213 Pg 3-6 of 7; 8, 13, 14 Oct 2015	300 - 370	1.81	32*	24.5	25.6	18.4
<b>Reach C - Turning Basin:</b> From a point approximately 1,465 feet seaward of GREEN CAN #13, to the end of the turning basin at approximately GREEN CAN #13.	Map 213 Pg 6-7 of 7; 8, 13, 14 Oct 2015	Irregular	0.23	25	14.2		
<b>Partial Reach D - Route #3 Highway:</b> Survey coverage exists from a point at approximately GREEN CAN #13 at the end of the turning basin, to a point at approximately 815 feet landward of GREEN CAN #15.	Map 213 Pg 7 of 7; 8, 13, 14 Oct 2015	200	2.61	15***	13.5	13.0	15.5

**REMARKS:**

- All reported depths are relative to Mean Lower Low Water (MLLW) datum.
- Channel Reach Lengths are in nautical miles.

\*Reaches A & B were never constructed to a 32 foot depth. Previous dredging was to a depth of 30 feet only.

\*\*Survey coverage does not exist in the Left Outside Quarter and Right Outside Quarter, commencing approximately 6,600 feet landward of the start of Reach B and continues approximately 1,000 feet landward.

\*\*\* Reach D was never constructed to a 15 foot depth.

**HACKENSACK RIVER:**

- **Reach A – Droyers Reach:** Shoaling exists in the Right Outside Quarter and extends into the Middle Half commencing approximately 25 feet seaward of RED NUN #2 and continues to approximately 225 feet landward of RED NUN #8, having a maximum width of approximately 225 feet. Sporadic shoaling exists along the channel's toe in the Left Outside Quarter, commencing approximately at RED NUN #2 and continues to the approximate location of GREEN LIGHTED DAY BEACON #9. Thence, shoaling exists across the entire channel commencing approximately at GREEN LIGHTED DAY BEACON #9 and continues for approximately 460 feet landward. Shoaling along the channel's toe in the Right Outside Quarter commences approximately at RED NUN #10 and continues approximately 310 feet landward having a maximum width of approximately 65 feet. Shoaling exists in the Left Outside Quarter commencing approximately 60 feet seaward of RED NUN #10 and widens across the entire channel spanning approximately 725 feet landward, thence tapers back into the Left Outside Quarter and Middle Half for approximately 1,720 feet landward, where the shoal again widens across the entire channel, and continues for approximately 665 feet landward. Additional shoaling exists in the Left Outside Quarter beginning approximately 280 feet seaward from the limit of Reach A and continues landward to the end of the reach, having a maximum width of approximately 60 feet. Sporadic shoaling exists across the Right Outside Quarter commencing approximately 625 feet seaward of the end of the reach and continues to the end of the reach.
- **Reach B – Marion Reach:** Shoaling commences in the Right Outside Quarter along the channel's toe at the start of Reach B and also begins along the channel's toe in the Left Outside Quarter approximately 190 feet landward from the start of Reach B, thence shoaling from both quarters widen across the entire channel width approximately 510 feet landward of the start of Reach B and continues approximately 700 feet landward, thence tapering into the Right Outside Quarter for approximately 4,100 feet landward. Shoaling exists along the channel's toe in the Right Outside Quarter beginning approximately 3,570 feet landward of GREEN CAN #11 and continues approximately 820 feet landward, having a maximum width of approximately 45 feet. Additional shoaling in the Right Outside Quarter commences approximately 4,490 feet landward of GREEN CAN #11 and continues approximately 240 feet landward, having a maximum width of approximately 75 feet. Shoaling exists sporadically in the Middle Half, commencing approximately 1,960 feet seaward of GREEN CAN #11 and continues for approximately 3,000 feet landward.

**HACKENSACK RIVER (Continued):**

- **Reach B – Marion Reach (Continued):** Shoaling exists in the Left Outside Quarter beginning approximately 2,200 feet seaward of GREEN CAN #11 and continues approximately 1,880 feet landward, having a maximum width of approximately 75 feet. Shoaling exists in the Left Outside Quarter commencing approximately 800 feet landward of GREEN CAN #11 and continues approximately 240 feet landward. Shoaling thence continues in the Left Outside Quarter, beginning approximately 2,530 feet landward of GREEN CAN #11 and continues approximately 150 feet landward, extending into the Middle Half and having a maximum width of approximately 100 feet. Additional shoaling exists in the Left Outside Quarter commencing approximately 4,650 feet landward of GREEN CAN #11 and continues approximately 130 feet landward, extending into the Middle Half and having a maximum width of approximately 125 feet. Another shoal exists in the Left Outside Quarter beginning approximately 5,950 feet landward of GREEN CAN #11 and continues approximately 200 feet landward, having a maximum width of approximately 55 feet.
- **Reach C – Turning Basin:** Shoaling exists in the southwest portion of this reach commencing at approximately GREEN CAN #13 and continues seaward for approximately 630 feet, having a maximum width of approximately 270 feet. Spot shoals also exist in the northern most corner of the turning basin near RED NUN #12 and approximately 225 feet seaward of RED NUN #12.
- **Partial Reach D – Route #3 Highway:** Shoaling begins approximately 380 feet landward of GREEN CAN #13 along the Left Outside Quarter of this partial reach, and extends into the Middle Half of the channel to a point approximately 50 feet landward of GREEN CAN #15. Thence, spot shoals exist in the Middle Half for approximately 270 feet landward of GREEN CAN #15.