

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

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DATE 31 January 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: 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)			
Reach A - Droyers Reach: From junction between Hackensack and Passaic Rivers approximately 80 feet seaward of RED NUN #2 EBB, to bridge at Lincoln Highway.	Map 214 Pg 1-3 of 7; 18-19,24-27 Oct 2016	300 - 500	1.55	32*	25.8	24.1	17.7
Reach B** - Marion Reach: From bridge at Lincoln Highway, to the beginning of the Turning Basin approximately 1,290 feet seaward of GREEN CAN #13.	Map 214 Pg 3-6 of 7; 18-19,24-27 Oct 2016	300 - 370	1.81	32*	20.6	26.1	18.5
Reach C - Turning Basin: From a point approximately 1,290 feet seaward of GREEN CAN #13, landward to the end of the turning basin at approximately GREEN CAN #13.	Map 214 Pg 6-7 of 7; 18-19,24-27 Oct 2016	Irregular	0.23	25	26.8		
Partial Reach D - Route #3 Highway: Survey coverage exists from a point at approximately GREEN CAN #13 at the end of the turning basin, to a point at approximately 780 feet landward of GREEN CAN #15.	Map 214 Pg 7 of 7; 18-19,24-27 Oct 2016	200	2.61	15***	13.6	13.3	15.9

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 6,830 feet landward of the start of Reach B and continues approximately 650 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 at approximately 115 feet landward of RED NUN #2 and continues to approximately 1600 feet landward of RED NUN #6, having a maximum width of approximately 220 feet. Sporadic shoaling exists along the channel's toe in the Left Outside Quarter, commencing approximately 110 feet landward of RED NUN #2 and continues to the approximate location of DAY MARKER #9. Thence, shoaling exists across the entire channel commencing approximately at DAY MARKER #9 and continues for approximately 400 feet landward. Shoaling along the channel's toe in the Right Outside Quarter commences approximately at RED NUN #10 and continues approximately 280 feet landward having a maximum width of approximately 60 feet. Shoal exists in the Left Outside Quarter commencing approximately 260 feet seaward of RED NUN #10 and extending into the Middle Half with maximum width of approximately 230 feet, and continues for approximately 2,800 feet landward, where the shoal again widens across the entire channel, and continues for approximately 60 feet landward. Additional shoal exists in the Left Outside Quarter beginning approximately 270 feet seaward from the limit of Reach A and continues landward approximately 190 feet, having a maximum width of approximately 40 feet. Sporadic shoaling exists across the Right Outside Quarter commencing approximately 1500 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 approximately 90 feet landward of the start of Reach B and also begins along the channel's toe in the Left Outside Quarter approximately 180 feet landward from the start of Reach B, thence shoaling from both quarters widen across the entire channel width approximately 645 feet landward of the start of Reach B and continues approximately 410 feet landward, thence tapering into the Right Outside Quarter for approximately 1,900 feet landward. Shoal exists along the channel's toe in the Right Outside Quarter beginning approximately 640 feet seaward of GREEN CAN #11 FLOOD and extending into the Middle Half with maximum width of approximately 190 feet and continues approximately 740 feet landward. Additional shoaling in the Right Outside Quarter commences approximately 650 feet landward of GREEN CAN #11 and continues approximately 350 feet landward, having a maximum width of approximately 35 feet. Sporadic shoal in the Right Outside Quarter along the toe line commences approximately 3,550 feet landward of GREEN CAN #11 and continues approximately 2,030 feet landward, having a maximum width of approximately 70 feet.

HACKENSACK RIVER (Continued):

- **Reach B – Marion Reach (Continued):** Shoaling exists sporadically in the Middle Half, commencing approximately 2040 feet seaward of GREEN CAN #11 and continues for approximately 7,000 feet landward. Shoaling exists in the Left Outside Quarter beginning approximately 2,290 feet seaward of GREEN CAN #11 and continues approximately 1,650 feet landward, having a maximum width of approximately 75 feet. Sporadic shoal exists in the Left Outside Quarter commencing approximately 440 feet seaward of GREEN CAN #11 and continues approximately 6,375 feet landward, having a maximum width of approximately 75 feet.
- **Reach C – Turning Basin:** Shoaling commences in the Right Outside Quarter along the channel's toe approximately 105 feet seaward of RED NUN #12 and also begins along the channel's toe in the Left Outside Quarter approximately 60 feet seaward of said buoy, thence shoaling from both quarters widen across the entire channel width approximately 195 feet landward of the end of Reach C.
- **Partial Reach D – Route #3 Highway:** Shoaling begins approximately 880 feet seaward of GREEN CAN #15 along the Left Outside Quarter of this partial reach, and extends into the Middle Half of the channel and continues landward until approximately 95 feet of said buoy.