

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

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

**DATE** 15 June 2016

**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:**  
MAMARONECK HARBOR, NEW YORK

**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:</b> Begins approximately 410 ft seaward from GREEN LIGHTED #5 and ends approximately 440 ft seaward from RED LIGHTED #10	Map 48 Pg 1 of 6 ; 15, 21, 22, 25, 26 Apr 2016	100	0.28	10	8.8	8.8	8.8
<b>Reach B:</b> Begins approximately 440 ft seaward from RED LIGHTED #10 and ends at approximately at DANGER LIGHTED BUOY	Map 48 Pg 1 & 2 of 6; 15, 21, 22, 25, 26 Apr 2016	100	0.12	10	8.9	9.1	9.1
<b>Reach F:</b> Irregular shaped anchorage area beginning at the end of Reach E and continues for approximately 1,200 feet.	Map 48 Pg 4 of 6; 15, 21, 22, 25, 26 Apr 2016	Irregular	8.69 acres	6	2.9		
<b>Reach G:</b> Irregular shaped anchorage area beginning approximately 175 ft landward from RED NUN 16 and continues landward along Reach C for approximately 650 feet.	Map 48 Pg 6 of 6 ; 15, 21, 22, 25, 26 Apr 2016	Irregular	2.55 acres	10	5.2		
<b>Reach H:</b> Irregular shaped anchorage area beginning approximately 75 ft landward from RED NUN 16 and continues landward for approximately 1,450 feet.	Map 48 Pg 5 & 6 of 6; 15, 21, 22, 25, 26 Apr 2016	Irregular	12.04 acres	6	+0.3		

**REPORT OF CHANNEL CONDITIONS  
< 100 FEET WIDE**

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			80% OF CHANNEL WIDTH (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)	
<b>Reach B:</b> Begins approximately 30 ft seaward of DANGER LIGHTED BUOY and ends approximately 15 ft landward from RED NUN #12	Map 48 Pg 2 & 3, 15, 21, 22, 25, 26 Apr 2016	80	0.19	10	10.4
<b>Reach C:</b> Begins approximately 135 ft seaward of GREEN/RED JUNCTION "A" and extends landward approximately 2,600 ft	Map 48 Pg 3, 5 & 6 of 6; 15, 21, 22, 25, 26 Apr 2016	80	0.43	10	4.2
<b>Reach E:</b> Begins approximately 50 ft seaward of GREEN/RED JUNCTION "A" and ends approximately 1,200 ft from the end of the West Basin Anchorage.	Map 48 Pg 3 & 4 of 6; 15, 21, 22, 25, 26 Apr 2016	80	0.30	6	8.1

**REMARKS:**

- All channel depths are relative to Mean Lower Low Water (MLLW).
- Channel reach lengths are in nautical miles.

**MAMARONECK HARBOR:**

- **Reach A:** Shoaling exists across the entire channel width commencing approximately 130 feet landward of GREEN LIGHTED #5 and continues until the end of the reach, approximately 1,060 feet landward.
- **Reach B:** Shoaling exists across the entire channel width commencing at the seaward limit of the Reach and continuing approximately 700 feet landward. Another shoal along the channel's toe commences approximately at RED NUN #12 and continues approximately 15 feet landward to the end of the Reach, having a maximum width of approximately 5 feet.
- **Reach C:** Shoaling along the channel's toe commences approximately 15 feet landward of RED NUN #12 and continues approximately 65 feet landward, with a maximum width of approximately 5 feet. Shoaling exists across the Middle 80% and Right Outside 10% commencing approximately 100 feet landward of GREEN/RED JUNCTION "A" and continues approximately 185 feet landward. Thence, this shoal tapers to the Right Outside 10% for approximately 35 feet landward. Shoaling commences in the Left Outside 10% beginning approximately 340 feet seaward of GREEN CAN #9 EBB and gradually widens across the entire channel width at approximately 85 feet seaward of GREEN CAN #9 EBB and then tapers into the Left and Right Outside 10% at the approximate location of GREEN CAN #9 FLOOD, continuing approximately 145 feet seaward of RED NUN #14. Thence, shoaling continues in the Left Outside 10%, extending into the Middle 80% approximately 140 feet seaward of RED NUN #14. The same shoal continues to widen, covering the entire channel approximately 180 feet landward of RED NUN 16 and continues until the end of the channel.
- **Reach E:** No shoaling exists within this reach.
- **Reach F:** Spot shoal exists in the southern limit of the anchorage beginning approximately 240 feet landward of MOORING BUOY and continues approximately 50 feet landward, having a maximum width of approximately 15 feet.
- **Reach G:** Shoaling exists across the majority of the anchorage area commencing approximately 190 feet landward of RED NUN 16 and continuing to the end of the reach with a maximum width of approximately 210 feet.
- **Reach H:** Shoaling exists in the landward most portion of the anchorage area commencing approximately 270 feet seaward from the limit of the anchorage area and continues landward to the end of the anchorage. Another shoal exists beginning approximately 415 feet seaward of the limit of the anchorage and continues approximately 95 feet landward, having a maximum width of approximately 25 feet.