

REPORT OF CHANNEL CONDITIONS 100 TO 400 FEET WIDE (ER 1130-2-3165)						PAGE	1	OF	1
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: Long Island Intracoastal Waterway, 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)					
LONG ISLAND INTRACOASTAL WATERWAY									
Reach A: Begins at the intersection of the Patchogue River and the Great South Bay Channel and ends approximately 155 ft west of GREEN BUOY #1 W/LT.	File #222 Sheets 6-12; 1-12 August 2011	100	4.0	6	7.3	7.1	7.0		
Reach B: Begins approximately 155 ft west of GREEN BUOY #1 W/LT and ends approximately 160 ft south of GREEN BUOY #11 W/LT.	File #222 Sheets 12-18; 1-12 August 2011	100	4.0	6	5.1	5.5	4.6		
Reach C: Begins approximately 160 ft south of GREEN BUOY #11 W/LT and ends approximately 215 ft west of GREEN BUOY #9 W/LT.	File #222 Sheets 18-23; 1-12 August 2011	100	3.9	6	4.8	4.6	4.3		
Reach D: Begins approximately 215 ft west of GREEN BUOY #9 W/LT and ends approximately 330 ft south of GREEN BUOY #21 EBB.	File #222 Sheets 23-29; 1-12 August 2011	100- 253	4.0	6	3.3	1.6	1.6		
Reach E: Begins approximately 330 ft south of GREEN BUOY #21 EBB and ends approximately 500 ft northwest of GREEN BUOY #31 W/LT.	File #222 Sheets 29-34; 1-12 August 2011	100	3.2	6	1.8	1.6	3.0		
Reach F: Begins approximately 500 ft northwest of GREEN BUOY #31 W/LT and ends approximately 960 ft south of GREEN BUOY #37 W/LT.	File #222 Sheets 34-38; 1-12 August 2011	100- 195	2.6	6	3.8	4.4	4.9		

<p>Reach G: Begins approximately 960 ft south of GREEN BUOY #37 W/LT and ends approximately 985 ft south of FIXED AID TO NAVIGATION #10 W/LT.</p>	<p>File #222 Sheets 38-40; 1-12 August 2011</p>	<p>100-200</p>	<p>2.0</p>	<p>6</p>	<p>4.8</p>	<p>5.4</p>	<p>1.3</p>
<p>Reach H: Begins approximately 985 ft south of FIXED AID TO NAVIGATION #10 W/LT and ends approximately 1,090 ft south of GREEN BUOY #17 W/LT.</p>	<p>File #222 Sheets 40-51; 1-12 August 2011</p>	<p>100-177</p>	<p>6.7</p>	<p>6</p>	<p>1.4</p>	<p>1.4</p>	<p>1.8</p>
<p>Reach I: Begins approximately 1,090 ft south of GREEN BUOY #17 W/LT and ends approximately 1,660 ft east of RED BUOY #34 W/LT.</p>	<p>File #222 Sheets 51-55; 1-12 August 2011</p>	<p>100-223</p>	<p>3.4</p>	<p>6</p>	<p>2.7</p>	<p>5.0</p>	<p>5.0</p>

REMARKS:

- All depths are in Mean Lower Low Water.
- The channel length is in nautical miles
- This survey covers approximately 33.8 nautical miles of the Long Island Intracoastal Waterway.

LONG ISLAND INTRACOASTAL WATERWAY

- **Reach A:**
 - No shoaling.
- **Reach B:**
 - Two shoals having a min. depth of 4.6' over a length of 1,540' begin approximately 2,210 feet northeast of RED NUN #4 with a max extension of 25' into the channel.
 - Shoal having a min. depth of 5.6' over a length of 700' begins approximately 570' southwest of RED NUN #6 and extends approximately 10' into the right outside quarter.
 - Shoal having min. depth of 5.6' over a length of 430' begins approximately 200' northwest from RED NUN #6 and extends half way across the left quarter.
 - Shoal having a min. depth of 5.1' in the left quarter and 5.5' in the center over a length of 590' begins approximately 330' east of GREEN CAN #9 and extends across the entire left quarter and center half of the channel.
- **Reach C:**
 - One shoal having a min. depth of 4.6' over a length of 110' begins approximately 440' southwest of RED NUN #2 and extends across the right outside quarter and into the center half of the channel.
 - One shoal having a min. depth of 5.4' over a length of 470' begins approximately 1,010' northeast of RED NUN #4 and extends across the right outside quarter of the channel.
 - Two shoals having a min. depth of 4.8' over a length of 275' exist approximately 1,805' southwest of RED NUN #6 and extend across the left outside quarter and center half of the channel.
 - Two shoals having a min. depth of 4.3' in the right quarter, 4.6' in the middle half, and 5.3' in the left quarter exist on each side of GREEN CAN #7 over a length of 2,100' and extend across the channel width.
- **Reach D:**
 - Shoal having a min. depth of 4.4' in the right quarter, 4.6' in the middle half, and 5.1' in the left quarter over a length of 1,200' begins approximately 900' northeast of RED #10 and extends across the entire channel width.
 - Shoal having a min. depth of 5.2' in the right quarter, 4.7' in the middle half, and 3.3' in the left quarter over a length of 1420' begins approximately 480' southwest of GREEN BUOY #11 FLOOD and extends across the entire channel.
 - Shoal having a min. depth of 4.6' in the left quarter, 4.8' in the middle half, and 4.6' in the right quarter over a length of 1,700' begins approximately 2,130' west of GREEN BUOY #17 EBB and extends across the entire channel width.
 - Shoal having a min. depth of 1.6' in the right quarter and 1.6' in the middle half over a length of 410' begins approximately 40 feet west of RED BUOY #18 W/LT and extends across the entire right quarter and middle half.
 - Shoal having a min. depth of 4.3' over a length of 650' begins approximately 185 feet west of GREEN BUOY #21 EBB and extends across the left quarter.
- **Reach E:**
 - Shoal having a min. depth of 2.8' in the right quarter, 1.6' in the middle half, and 1.8' in the left quarter over a length of 1,060' begins approximately 275 feet west of RED NUN BUOY #26 W/LT and extends across the entire channel width.
 - Two shoals having a min. depth of 3.0' in the right quarter, 5.1' in the middle half, and 4.7' in the left quarter begins approximately 1010' west of RED NUN BUOY #28 and extends to RED NUN BUOY W/LT #30 FLOOD over a length of 5,400' across the entire channel width.

- **Reach F:**

- Shoal having a min. depth of 5.5' in the right quarter, 5.6' in the middle half, and 5.7' in the left quarter begins approximately 2,480' west of GREEN BUOY #35 EBB over a length of 3,000' and extends across the entire channel width.
- Shoal having a min. depth of 4.9' begins approximately 800' east of GREEN BUOY #35 EBB over a length of 1040' and extends approximately 15' into the left outside quarter.
- Two shoals having a min. depth of 4.4' in the middle half, 3.8' in the left quarter, and 5.0' in the right quarter exist approximately 170' west of the Jessup Lane Bridge over a length of 370', and extends across the channel, and it continues into reach G by 120' with a min. depth of 5.4' in the middle half of the channel.

- **Reach G:**

- A shoal having a minimum depth of 4.9' begins approximately 65 feet west of FIXED AID TO NAVIGATION #2 over a length of 100' across the left outside quarter of the channel.
- A shoal in each quarter beginning at FIXED AID TO NAVIGATION #7 W/LIGHT over a length of 260' having minimum depths of 5.4' in the left quarter and 5.3' in the right quarter extends 10' into the left and right outside quarters of the channel.
- A shoal having a minimum depth of 5.7' begins approximately 140' northeast of FIXED AID TO NAVIGATION #9 over a length of 530', extending approximately 15 into the left outside quarter.
- A shoal having a min. depth of 1.3' begins approximately 250' west of FIXED AID TO NAVIGATION #10 over a length of 610', extending across the right quarter of the channel.

- **Reach H:**

- A shoal having a min. depth of 5.5' begins approximately 1,500' east of FIXED AID TO NAVIGATION #10 over a length of 190', and extends approximately 20' west into the left channel quarter.
- A shoal having a min. depth of 4.4' in the left quarter, 3.2' in the middle half and 3.4' in the right quarter begins opposite Ogdens Pond over a length of 170', extending across the entire channel width.

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- **Reach H (continued):**

- A shoal having a min. depth of 4.7' in the left quarter and 4.8' in the middle half begins opposite of FIXED AID TO NAVIGATION #12 W/LT over a length of 180', extending across the left quarter and 25' into the middle half.
- A shoal having a min. depth of 5.0' in the right quarter begins approximately 400' south of GREEN CAN BUOY #1 over a length of 700', extending 20' into the right quarter of the channel.
- A shoal having min. depths of 5.2 in the left quarter, 5.7' in the middle half, and 4.3' in the right quarter begins approximately 510' northeast of GREEN CAN BUOY #3 EBB over a length of 2520', extending across the entire channel width.
- A shoaling having min. depths of 4.0' in the left quarter, middle half and right quarter begins approximately 425 feet southwest of RED BUOY #6 W/LT FLOOD over a length of 3500', extending across the entire channel width.
- A shoaling having minimum depths of 5.3' in the right quarter and middle half and 5.4' in the left quarter begins approximately 2,440' northeast of GREEN BUOY #9 W/LT FLOOD over a length of 1440', extending across the entire channel width.
- A shoal having min. depths of 1.4' in the left quarter and middle half and 1.8' in the right quarter begins approximately 4,780' northeast of GREEN BUOY #9 W/LT FLOOD over a length of 2,100', extending across the entire channel width.

- **Reach I:**

- A shoal having min. depths of 5.0' in the right quarter and middle half, and 5.2' in the left quarter begins approximately 540 feet north of GREEN BUOY #19 FLOOD over a length of 370', extending across the entire channel width.
- A shoal having min. depths of 5.4' in the left quarter and 5.9' in the center half begins at GREEN BUOY W/LT #25 EBB over a length of 630' extending across the left quarter and approximately 10' into the center half of the channel.
- A shoal having minimum depths of 2.8' in the left quarter and 5.0' in the middle half begins approximately 185 feet southeast of GREEN BUOY #31 EBB over a length of 370', extending across the left quarter and 15' into the middle half of the channel.
- A shoal having minimum depths of 5.8 left quarter, 5.5' middle half and 5.2' right quarter begins approximately 260 feet southeast of RED BUOY #34 W/L EBB over a length of 420', extending across the entire channel width.
- A shoal having minimum depths of 2.7' in the left quarter begins approximately 1060 feet north of RED BUOY #34 W/LT EBB and extends across the left quarter and to the end of the Federal navigation channel (approximately 630').