

**Day in the Life of the Hudson River 10/12/17 Data**  
**RIVER MILE 15.2**  
**(Salt Front ~ RM 65)**  
**Fort Totten Park, Queens, NY**  
**New York City Urban Park Rangers**  
**Michelle Theodorou, John Browne High School**  
**21 - 11<sup>th</sup>-12<sup>th</sup> graders in AP Environmental Science, 3 adults**  
**40°79'N, 73°47'W**

**Location:** Shoreline and Jetty at Fort Totten Park, Queens NY

**Area:** Jetty, grassy, parking lot nearby

**Surrounding Land Use:** urban/residential

**Shoreline:** Sandy, muddy, rocky, beach, altered banks, covered in vegetation, RipRap

**Sampling Site:** 4ft deep, muddy, rocky, weedy bottom

**Plants in area:** 50% seaweed and 10% kelp

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>		<i>Comments</i>
<i>Physical</i>					
Air Temperature	12:04 PM	68°F	20°C		
Wind Speed	11:59 AM	Beaufort #2	6.9 Knots		Comes from East
Cloud Cover	10:45	Overcast >75%			
Weather today	Light rain in the morning for 1 hour				
Weather recently	Rained the day before				
Water description	Choppy				
<i>Water Temp.</i>	NR				
<i>Turbidity – Long Site Tube (cm)</i>	11:55 AM	16cm	21cm		Avg: 18.5
<i>Observations</i>	Cloudy, sediments floating				
<i>Chemical</i>	Time	DO	Temp		% Sat
DO <i>Hach Kit</i>	11:21 AM	10	20°C		115%
	11:50 AM	14	20		150
	12:05 PM	10	20		115
pH – <i>pHI Master Test Kit</i>	11:00 AM	8.2			
	2:18 PM	8.2			
Salinity- hydrometer	11:06 AM	36 ppt			
	11:52 AM	32 ppt			
Alkalinity - test stripes	11:03 AM	80 ppm			
	12:08 AM	14 ppm			
Nitrates	11:20 AM	0 ppm			
	12:24 PM	0 ppm			
<i>FISH</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>		
<i>15ft net</i>	70+	Atlantic Silverside	5in	12.7cm	<b>DIV: 3</b> <b>TOTAL: 74+</b>
	3	Croaker	4	10.2	
	1	Juvenile Menhaden	4	10.2	
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Gender, length</i>		
	1	Blue Crab	M		<b>DIV: 3</b> <b>TOTAL: 502+</b>
	1	Mud Crab	F		

	500+	Ghost Shrimp	3in/7.6 cm	
<b><i>Sediment Core</i></b>	<b><i>Rare</i></b>	<b><i>Common</i></b>	<b><i>Abundant</i></b>	<b><i>description</i></b>
11:45 AM		Sand Gravel Pebbles Shells Oysters	Clay Mud Leaves	<i>No length recorded</i>
<b><i>Tides</i></b>	10:45 AM	Low tide		
<b><i>Currents</i></b>	10:45 AM	762 cm/99 secs	7.7 cm/sec	Ebb tide
<b><i>Other Items</i></b>	Shell pieces, glass, kelp, seaweed, pebbles, leaves, crabshells  Also saw – cormorant, red-tailed hawk, seagull, ducks Centipede, mussels, worms, bees, rats, Blue crabs, mud crabs			