

**Day in the Life of the Hudson River 11/20/16 Data**  
**(Salt Front ~ RM 83)**  
**RIVER MILE -11.2**  
**Great Kills Gateway National Recreation Area, Staten Island**  
**Mary Lee, St. Clare's School, 70 Seventh graders and 10 adults**  
**N 40°32.33.7' - W-74°07.30.7 min**



**Location:** Beach, Great Kills Gateway National Recreation Area, Staten Island  
**Sampling Site:** Open beach, Shoreline is 100 % beach (urban park), <5% forested,  
**Surrounding Area:** Beach and riprap, sandy and rocky. Debris on the beach (plastic and Styrofoam)  
**Water Depth:** 2-3 ft.  
**River Bottom:** sandy  
**Plants in area:** No plants

<i>ITEM</i>	<i>Time</i>	<i>Readings</i>		
<b><i>Physical</i></b>				
Air Temperature	10:30 AM 12:03 PM	21°C 20	70°F 68	
Wind Speed	Throughout AM - NE	Beaufort 3 and 4	OR 8-12 mph	Anemometer 17 mph
Cloud Cover	Overcast >75 %			
Weather today	Predicted rain for the day	Increasing cloud cover during day	<b><i>Water surface</i></b>	Very choppy
Weather recently	Warmer than normal, dry			
<b><i>Water Temperature</i></b>	10:10 AM 10:35 AM 11:07 AM 11:37 AM 11:50 AM	20 °C 20 20 20 20	68°F 68°F 68°F 68°F 68°F	
<b><i>Turbidity Turbidity tube</i></b>	10:09 AM 10:38 AM	12 cm 6.5 cm	8.25 cm avg	
<b><i>Chemical</i></b>	<b>Time</b>	<b>ppm</b>	<b>Temp</b>	<b>% Sat</b>

DO – multiple readings – tablets - Estuary Wide Kit –	11:00 AM	4, 6, 5, 4, 4 ppm	20° C	50%
pH tablets - LaMotte	10:10 AM	7 X 3	7 average	
Salinity - hydrometer	11:09 AM	27.5 ppt 27.5 31.0 27.5 29.0	28.5 ppt	
<b><i>Fish Catch – seine 15 ft. net – 6 ft. pull</i></b>	<b><i>Time</i></b>	<b><i>Species</i></b>	<b><i>Number</i></b>	
<b><i>Macroinvertebrates</i></b>		Blue crabs Mussels HS crabs Calico crab Spider crab Slipper shells Angel wings	<b><i>All specimen dead at tide line – nothing living collected</i></b>	
<b><i>Tides (from pier to water)</i></b>	<b><i>Time</i></b>	<b><i>Rising/Falling</i></b>	<b><i>Height in cm</i></b>	<b><i>Rate of change</i></b>
	9:45 AM	Rising	40 cm	n/a
	10:07AM	Rising	45 cm	5 cm/15 min
	10:23AM	Rising	50 cm	5 cm/15 min
	10:38 AM	Rising	70 cm	20 cm/15 min
	10:55 AM	Rising	80 cm	10 cm/15 min
	11:05 AM	Rising	90?	
*tide pole lost due to incoming tide	11:24 AM	Rising		
<b><i>Currents - Time</i></b>	<b><i>Cm/30sec</i></b>	<b><i>Cm/sec</i></b>	<b><i>Knots</i></b>	<b><i>Ebb/Flood</i></b>
10:15 AM	500	16.7	0.32	F
10:31 AM	900	30	0.58	F
10:45 AM	440	14.7	0.29	F
11:05 AM	250	8.3	0.16	F
11:34 AM	2220	74	1.44	F
12:05 PM	440	30.03	0.59	
<b><i>Core Sample</i></b>	<b><i>Length</i></b>	<b><i>Abundant</i></b>	<b><i>Common</i></b>	
11AM 2 ft. water depth	16.5 cm	Sand Gravel		
<b><i>Shipping – Time</i></b>	<b><i>Type</i></b>	<b><i>Name</i></b>	<b><i>Color</i></b>	<b><i>Direction</i></b>
11:10 AM	MCP	Container	Southbound	Loaded
12:00 PM		Container	Southbound	Loaded