

Day in the Life of the Hudson River 11/20/15 Data
RIVER MILE -7.5
Great Kills Gateway National Recreation Area, Staten Island
Mary Lee, St. Clare's School, 78 Seventh graders and 27 adults
N 40°32.56' - W-74°7.5 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

Water Depth:2-3 ft.

River Bottom: sandy, rocky

Plants in area: No plants

<i>ITEM</i>	<i>Time</i>	<i>Readings</i>		
<i>Physical</i>				
Air Temperature	9:30 AM 11:00 AM 11:12 AM 11:48 AM	20°C 20 19.8 22	68°F 68 64.4 71.6	
Wind Speed	11:54 AM	Beaufort 4-7	Anemometer mph	
Cloud Cover	26-50 %			
Weather today	Partly cloudy – no rain	Warmed during day, windier	<i>Water surface</i>	Very choppy
Weather recently	Very cold			
<i>Water Temperature</i>	10:07 AM 10:37 AM 10:56 AM 11:17 AM	12 °C 13 13 12/14/14 (average 13)		
<i>Turbidity Turbidity tube</i>	10:17 AM	13.1 cm 19.4 cm 19 cm	17.1 cm avg	
	11:30 AM	107 cm 68 90	88 cm	
<i>Chemical</i>	Time	ppm	Temp	% Sat
DO – multiple readings – tablets - Estuary Wide Monitoring Kit –	10:07 AM 10:56 AM 12:30 PM	6 ppm 8 ppm 8 ppm	12° C 13.6 14	55% 75% 78%
pH Indicator Solution	10:05 AM 10:50 AM	7 7		

	11:57 AM	7		
Salinity - hydrometer	10:10 AM 11:10 AM 11:53 AM	1.26 ppt 4.22 6.25	? puzzling	
<i>Fish Catch – seine 15 ft. net – 6 ft. pull</i>	<i>Time</i>	<i>Species</i>	<i>Number</i>	
<i>3 seines – 10 fish</i>	10:00AM	Atlantic Silverside	5	DIV 2 TOTAL 10
	10:30 AM	Bay Anchovy	5	
<i>Macroinvertebrates</i>	11:00 AM	Comb Jellies	50	DIV 2
		Glass Shrimp	1	TOTAL 51
<i>Tides (from pier to water)</i>	<i>Time</i>	<i>Rising/Falling</i>	<i>Height in cm</i>	<i>Rate of change</i>
LT 7:31 AM	9:30 AM	Rising	40 cm	n/a
	9:45 AM	Rising	50 cm	0.67 cm/min
	10:00 AM	Rising	58 cm	0.53
	10:15 AM	Rising	65 cm	0.47
	10:30 AM	Rising	72 cm	0.47
	10:45 AM	Rising	84 cm	0.53
*removed pole due to rise of tide	11:00 AM	Rising	90 cm	0.4
<i>Currents - Time</i>	<i>Cm/30sec</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>N/S Ebb/Flood</i>
	NR			
<i>Core Sample</i>	<i>Length</i>	<i>Abundant</i>	<i>Common</i>	
Yes H2S smell Oxidized top	12 inches 1/3 muck at bottom 2/3 sand & gravel on top	Sand Gravel Pebbles	Mud	
<i>Shipping – Time</i>	<i>Type</i>	<i>Name</i>	<i>Color</i>	<i>Direction</i>
N/R	Tug			
	Oil Riger			
	Barge	Cascade	Brown/Blue	South
	Tugboat		White	South