

Day in the Life of the Hudson River 10/14/21

Green Kills Park, Staten Island

RIVER MILE: -11.2

Salt Front: ~ 49

Mary Lee, St. Clare School

Kathy Garofalo & National Parks Service

9 students & 10 adults

Latitude 40.545446 N & Longitude – 74.122115 W

Location: Great Kills Gateway National Recreation Area, Staten Island, New York

Area: Open Beach

Surrounding Land Use: 30% Beach (urban park); 70% Forested

Sampling Site: Beach and riprap, sandy and rocky.

River Bottom: Sandy and muddy

Shoreline: 80% Sandy; 20% Muddy

Plants in area: 20% seaweed

Water: 80 cm deep

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
Physical					
<i>Air Temperature</i>	4:00 PM	26.11° C	79° F		
<i>Wind Speed:</i>	4:00 PM	<i>Anemometer</i> 1.9 knots	<i>Beaufort</i> 1	<i>Direction</i> N	
<i>Weather today</i>	3:30 PM	26-50% cloud cover	No rain		
<i>Weather the past 3 days:</i>	Temperature in the low-mid 70s; no rain; low wind				
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>		
	3:50 PM 4:05 PM 4:20 PM 4:35 PM	~High Tide Falling Falling Falling	80 cm 85 cm 90 cm 94 cm	LT: 9:54 AM HT: 3:40 PM	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Slack</i>
	3:55 PM 4:10 PM 4:25 PM	0 2.3 2.25	0	Still South South	Slack Ebbing Ebbing
<i>Water Temperature-</i>	4:42 PM	17.8° C	64° F		
<i>Turbidity- Long Sight tube</i>	4:20 PM	21.06 cm			
Chemical					
<i>Salinity- Hydrometer</i>	4:40 AM	25 ppt			
<i>Standardized Salinity – Refractometer</i>	4:00 PM	25 ppt			
<i>DO – Chemets kti</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% Saturation</i>	
	4:45 PM	17.8° C	9	95%	
<i>pH – color match kit</i>	4:55 PM	7.6			
<i>Nitrates- color match kit</i>	4:55 PM	0 ppm			
<i>Phosphates- color match kit</i>	4:55 PM	0 ppm			
Biological					

Fish -	Number	Name	Length of longest	Length of smallest	
*3 seines but did not catch any fish					
Fish Totals	TOTAL: 0	Diversity: 0			
Macroinvertebrates	Number	Name	Length of longest	Length of smallest	
	1	Mole Crab	NR	NR	
	15	Ctenophore sp.	8 cm	3 cm	
Macroinvertebrate Totals	TOTAL: 16	Diversity: 2			
Sediment Core -NR					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
Not collected					
Boats-NR					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial					
Residential					