

**Day in the Life of the Hudson River 10/05/2023**

**Nyack Beach, Nyack, NY**

**RIVER MILE: 30.4**

*Salt Front: ~RM 52*

**Blue Rock School-Charlotte Jack**

**23 students, 5<sup>th</sup>-8<sup>th</sup> grade, 5 adults**

**Latitude 41.119759°N & Longitude -73.912429°W**



**Location:** Nyack South Beach, Upper Nyack, Rockland County, NY

**Surrounding Land Use:** 5% Urban/Residential, 45% Forested, 50% Beach

**Sampling Site:** Sandy beach with retaining wall enclosing it and behind a lot of trees, picnic tables, sandy and rocky at edges, covered with vegetation beyond the beach, stone wall, riprap shore, concrete docking.

**Shoreline:** Rip Rap, Sandy & Rocky

**Water:** NR

**River Bottom:** Sandy

**Plants in the water:** Submerged water celery (Valisneria)

\*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature</i>	11:00 AM	22° C	72° F	
<i>Wind Speed: NR</i>		<i>Anemometer</i>	<i>Beaufort</i>	<i>Direction</i>
<i>Weather today</i>	11:00 AM	<25% Cloud Cover	No Rain	
<i>Weather the past 3 days: NR</i>				
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>
	11:00 AM	-		15 cm
	11:30 AM	Rising		29 cm
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>
	11:00 AM	1		Flood
<i>Water Temperature-</i>	11:00 AM	20°C	68°F	
<i>Turbidity- NR</i>				
<i>Chemical</i>				
<i>Standardized Salinity- High Range Quantabs – 6.1QT units</i>	11:30 AM	1771 ppm Cl <sup>-</sup>		3199 ppm total salinity
<i>Student Salinity- High Range Quantabs</i>	11:00 AM	650 ppm Cl <sup>-</sup>		1174 ppm total salinity
				3 ppt total salinity
				1 ppt total salinity

<b>DO –</b>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>		
	11:00 AM	20°C	9 ppm			
<b>pH – Color Match Kit</b>	11:00 AM	7.5				
<b>Biological</b>						
<b>Fish- Seine (8 Hauls)</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	<b>Notes</b>		
11:00 AM-1:45 PM	202	Atlantic Silverside	13.2 cm			
<b>Fish Totals</b>	<b>TOTAL: 202</b>	<b>Diversity: 1</b>				
<b>Macroinvertebrates</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>			
	2	Blue Crab	11.43 cm			
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 2</b>	<b>Diversity: 1</b>				
<b>Sediment Core -NR</b>	<b>Time</b>	<b>Oxid Top</b>	<b>H<sub>2</sub>S Smell</b>	<b>Oil</b>	<b>Grain Size</b>	<b>Other Features</b>

<b>Boats-NR</b>					
<b>Commercial/ Recreational</b>	<b>Time</b>	<b>Name</b>	<b>Color</b>	<b>Southbound/ Northbound</b>	<b>Light/Loaded</b>