

Day in the Life of the Hudson River 10/13/22
Nyack State Beach Park, Upper Nyack, Rockland, NY
RIVER MILE: 30.4
Salt Front: ~ RM76
Blue Rock School– Charlotte Jack
25 students & 6 adults
Latitude 41.119759°N & Longitude – 73.91243°W

Location: Nyack State Beach Park, Upper Nyack, Rockland, NY

Area: Park/boat launch near Hook Mountain; sandy beach by the large sitting stairs

Sampling Site: Beach, covered with vegetation beyond the beach, stonewall, riprap shore, pipe coming into the river south of the sampling site

Surrounding Land Uses: 40% Forested; 10% Industrial/Commercial; 40% Beach- used for recreation and picnics

Shoreline: Sandy and rocky, muddy offshore

River Bottom: sandy inshore, offshore muddy with scattered large rocks

Water: NR

Plants in the Water: NR

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature-</i>	11:00 AM	20°C	68°F	
<i>Wind Speed:</i>	11:00 AM	<i>Anemometer</i> 2 mph	<i>Beaufort</i> 1	<i>Direction</i> SE
<i>Weather today</i>	11:00 AM	51-75% cloud cover	No Rain	
<i>Weather the past 3 days:</i>	Between 10-19°C 2.8-4.3 ml of rain			
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Water Height (cm)</i>	
	10:45 AM- 11:03 AM	Rising Rising	40 cm 48 cm	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>
	NR	25	NR	Flood
<i>Water Temperature-</i>	10:45 AM	18°C	64°F	
<i>Turbidity- Long Sight Tube (120 cm)</i>	2:10 PM	*totally obscured with sand due to waves		
Chemical				
<i>Salinity-HR Quantabs</i>	11:00 AM	646ppm -CL*	1167 ppm total salinity	*Seems too low – doesn't match the standardized
<i>Standardized Salinity – HR Quantabs</i>	11:00 AM	8.5 ppt		
<i>DO –</i> <i>*Issue with the test kit</i>	<i>Time</i> 11:00 AM	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
<i>pH – Color Match Kit</i>	10:45 AM	7.2		
<i>Nitrates- NR</i>				
<i>Phosphates- NR</i>				
<i>Alkalinity- NR</i>				
Biological-				
<i>Fish – Seine</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>
10:45 AM-2:00 PM	42 1	Atlantic Silverside Bluegill		
Fish Totals	TOTAL:	Diversity: 2		

	43				
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
	7	Blue Crab			
	12	Ctenophore spp.			
	1	Amphipod			
Macroinvertebrate Totals	TOTAL: 20	Diversity: 3			
<i>Sediment Core – NR</i>					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
*Collected by runner due to rain					
<i>Boats- NR</i>					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial					
Recreational					