

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

Nyack Memorial Park, Nyack, NY

RIVER MILE: 28

Salt Front: ~ 52

Liberty Elementary-George Mirsch

Upper Nyack Elementary School- Michael Jones

OSA- Ashley Curtis

Rockland County Soil & Water Dist, - Brianna Rosamilia

150 students, 5th grade, 20 adults

Latitude 41.08742°N & Longitude -73.91576°W

Location: Nyack Memorial Park, Nyack, Rockland County, NY

Surrounding Land Use: 100% Park

Sampling Site: Beach, banks altered, riprap on shoreline, bulkhead

Shoreline: NR

Water: NR

River Bottom: NR

Plants in the water: NR

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
<i>Physical</i>					
<i>Air Temperature</i>	9:45 AM	23.9°C	75°F		
	10:30 AM	24.4°C	76°F		
	10:45 AM	25.6°C	78°F		
	11:15 AM	26.7°C	80°F		
	12:10 PM	33.3°C	92°F		
	12:40 PM	33.2°C	90°F		
	1:10 PM	33.2°C	90°F		
	1:40 PM	31.7°C	89°F		
<i>Wind Speed: NR</i>		<i>Anemometer</i>	<i>Beaufort</i>	<i>Direction</i>	
<i>Weather today</i>	10:45 AM		No Rain		
<i>Weather the past 3 days: NR</i>					
<i>Tides- pier to water</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>	
	9:45 AM	-		318 cm	
	10:30 AM	Flood		307 cm	
	10:45 AM	Flood		304 cm	
	11:15 AM	Flood		293 cm	
	12:10 PM	Flood		260 cm	
	12:40 PM	Flood		246 cm	
	1:10 PM	Flood		240 cm	
1:40 PM	Flood		236 cm		
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Slack</i>
	9:45 AM	0 cm			Slack
	10:30 AM	7.66 cm		North	Flood
	10:45 AM	0 cm			
	11:15 AM	0 cm			
	12:10 PM	5.567 cm		North	Flood
	12:40 PM	6 cm		North	Flood
	1:10 PM	3.33 cm		North	Flood
1:40 PM	5.67 cm		North	Flood	
<i>Water Temperature-</i>	9:45 AM	21.1°C		70°F	
	10:30 AM	21.7°C		71°F	

	10:45 AM 11:15 AM 12:10 PM 12:40 PM 1:10 PM 1:40 PM	22.8°C 23.3°C 25°C 25.6°C 25.6°C 25.6°C	73°F 74°F 77°F 78°F 78°F 78°F	
Turbidity- Long Sight Tube (120 cm)	9:45 AM 10:30 AM 10:45 AM 11:15 AM 12:10 PM 12:40 PM 1:10 PM 1:40 PM	62.5 cm 57.8 cm 66.2 cm 67 cm 60.7 cm 51.6 cm 67.6 cm 61.8 cm		

Chemical

Standardized Salinity- High Range Quantabs – 6.6 QT units	11:30 AM	4,735 ppm total salinity	4.7 ppt TS	3734 ppm Cl-
Student Salinity- Hydrometer	9:45 AM 10:30 AM 10:45 AM 11:15 AM 12:10 PM 12:40 PM 1:10 PM 1:40 PM	6,000 ppm 8,000 ppm 7,000 ppm 12,000 ppm 10,000 ppm 11,000 ppm 10,000 ppm 10,000 ppm	6 ppt 8 ppt 7 ppt 12 ppt 10 ppt 11 ppt 10 ppt 10 ppt	*readings high – expect hydrometer needs cleaning with distilled water
DO – NR	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
pH – Color Match Kit	9:45 AM 10:30 AM 10:45 AM 11:15 AM 12:10 PM 12:40 PM 1:10 PM 1:40 PM	6.8 7.2 7 7.2 6.8 6.2 6.8 6.8		

Biological

Fish-Rod and Reel	Number	Name	Length of longest	Notes		
8:30 AM	3 4 3 6	Channel Catfish White Perch Striped Bass Atlantic Silverside	43.2 cm 15.2 cm 12.7 cm 7.6 cm	*Angler provided the fish		
Fish Totals	TOTAL: 16	Diversity: 4				
Macroinvertebrates	Number	Name	Length of longest			
Macroinvertebrate Totals	TOTAL: 0	Diversity: 0				
Sediment Core -NR	Time	Oxid Top	H₂S Smell	Oil	Grain Size	Other Features

Boats-NR

Commercial/ Recreational	Time	Name	Color	Southbound/ Northbound	Light/ Loaded
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