

Day in the Life of the Hudson River 10/22/19

MEMORIAL PARK, NYACK

RIVER MILE: 28

Salt Front: ~ RM 53

Upper Nyack Elementary School- Michael Jones (PM GROUP)

75 students 5th grade and a total of 12 adults with support from the following groups:

Outdoor Science Alliance with the help of Ashley Curtis

Rockland County Soil & Water District Nicole Laible and Brianna Rosamilia

Latitude 41.08742 N & Longitude – 73.91576 W

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

Area: Open and grassy, parking lot, picnics, fishing

Surrounding Land Use: 100% parkland

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

River Bottom: Sandy, muddy

Plants in water: no plants in water area

This site hosted two elementary schools. This is the PM group

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>	<i>Comments</i>	
Physical				
<i>Air Temperature</i>	12:17 PM	62 ° F		
	12:45 PM	61 ° F		
	1:20 PM	59 ° F		
	1:53 PM	60 ° F		
<i>Wind Speed:</i>	NR			
<i>Weather today</i>	NR			
<i>Weather the past 3 days:</i>	NR			
<i>Tides- dock to water</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>
	12:17 PM	Rising	312.42, 302.26	
	12:45 PM	Rising	292.1, 307.34	
	1:20 PM	Rising	284.48, 281.94	
	1:53 PM	Rising	271.78, 269.24	
<i>Current-</i>	<i>Time</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>	
	12:17 PM	North	Flood	
	12:45 PM	North	Flood	
	1:20 PM	North	Flood	
	1:53 PM	North	Flood	
<i>Water Temperature</i>	12:17 PM	60 ° F		
	12:45 PM	60 ° F		
	1:20 PM	60 ° F		
	1:53 PM	60 ° F		
<i>Turbidity-</i>	12:17 PM	51 cm		
	12:45 PM	40 cm		
	1:20 PM	35 cm		
	1:53 PM	52 cm		
Chemical				
<i>Salinity- Hydrometer</i>	12:17 PM	<6	*Unable to get a more accurate reading with this type of hydrometer	
	12:45 PM	<6		
	1:20 PM	<6		
	1:53 PM	<6		
<i>DO – drop count kit</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	12:45 PM		8	
	1:20 PM		8	
	1:53 PM		8	

<i>pH</i> –	12:17 PM 12:45 PM 1:20 PM 1:53 PM	5.5, 5.75, 5, 5.75, 5.5, 6, 5.75, 6,	Avg: 5.63 Avg: 5.63 Avg: 5.75 Avg: 5.88
<i>Biological</i>			
<i>Fish</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>
Seine Caught by Nyack High School and shared with Liberty ES and Upper Nyack ES	4 15 4 25 6	White Perch Striped Bass Mummichogs Atlantic Silversides Spottail Shiners	
Fish Totals	TOTAL: 54	Diversity: 5	
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>
	8	Blue Crabs	
Macroinvertebrate Totals	TOTAL: 8	Diversity: 1	