

Day in the Life of the Hudson River 10/16/18 Data

MEMORIAL PARK, NYACK

RIVER MILE: 28

Salt Front: ~RM 24

Liberty Elementary School- George Mrsich

74 students, 5th grade, 4 adults

Morning Outdoor Science Alliance Team - Carolyn Cairns

Liberty PTA- Ashley Curtis

Rockland County Division of Environmental Resources- Nicole Laible

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% park

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

Shoreline:

River Bottom: sandy, muddy

Plants in area: no water plants in area

Water: calm, varied

This site hosted two groups of Nyack Elementary Schools during the day. This is the AM group.

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature:</i>	9:44 AM	8.34 °C	47 °F	
		°C	°F	
		°C	°F	
<i>Wind Speed:</i>	9:44 AM	Beaufort 4	15 mph	Northwest
<i>Weather Today:</i>	Partly cloudy (26-50%)			
<i>Weather Previous:</i>				
<i>Water Temperature</i>	9:30 AM	12.23 °C	54 °F	
	9:55 AM	10 °C	50 °F	
	10:20 AM	10 °C	50 °F	
	11:30 AM	16.08 °C	60.94 °F	<i>YSI Probe</i>
<i>Chemical</i>				
<i>Salinity-</i>	9:30 AM	2 ppt TS	1 ppt TS	Hydrometer
	9:55 AM	0 ppt TS	0 ppt TS	Hydrometer
	10:20 AM	0 ppt TS	0 ppt TS	Hydrometer
	11:10 AM	0.25 ppt TS		YSI Probe
<i>Dissolved Oxygen –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>equipment</i>
	9:30 AM		10 ppm	Salifert DO Kit
	9:55 AM		5 ppm	Salifert DO Kit
	10:20 AM		7 ppm	Salifert DO Kit
	11:20 AM		8.89 ppm	YSI Probe

<i>pH - *pH strips reading too low. Not accurate. Use YSI probe calculation.</i>	9:30 AM	6, 6, 6, 6 - average 6			*pH Strips
	9:55 AM	6, 6, 6, 6 - average 6			*pH Strips
	10:20 AM	6.5, 6.5, 6.5, 6.5 - average 6.5			*pH Strips
	11:10 AM	8.29			YSI Probe
Tides	Time	Rising, Falling, Still	Height (cm)	Rate of Tidal Change (cm/min)	NOTE: PM group saw the tide rising throughout their sampling 12:00-1:00 PM
	10:00 AM	Falling			
	10:30 AM	Falling			
	11:00 AM	Falling			
Currents Flow	Time	Cm/second	Knots	North/South	Ebb/Flood/Still
	10:05 AM	7	0.13607	South	Ebb
	10:45 AM	7.62	0.14812	South	Ebb
	NOTE: PM group saw the current flooding at their sampling time of 12:30 PM				