

**A Day in the Life of the Hudson River 10/10/13 Data
(Salt Front RM 69.3)**

RIVER MILE 28

Memorial Park, Nyack

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Upper Nyack Elementary School, 71 students 3rd grade

Latitude: +41.087267 degrees North Longitude: -73.915652 degrees West



Ctenophore in a bucket

Location: Nyack Memorial Park, at the end of Piermont Ave, Nyack NY

Area: Park shoreline with a sandy and slightly rocky beach and pier area

Surrounding Land Use: Park with homes behind - Located along the shoreline of Memorial Park, Piermont Avenue, Nyack, NY. This stretch of shoreline is lined with riprap, a short pier, a concrete boat ramp, freshwater input site (Nyack Creek- NYS Environmental Protection Fund site), and some mud flats where HS students seined.

Sampling Site: Surrounding the shoreline is a large parking lot and some mowed grass fields. The area's main use is for boating, fishing, and jogging as it is a major recreation site for the Village of Nyack residents. The altered banks were 95% riprap covered and the remaining 5% were mudflats.

Shoreline: Primarily rocky due to the riprap with muddy (silt/clay/mud) sediments.

Tappan Zee bridge construction was in the view of our site, dredging, and increased boat traffic in the distance was noted.

Plants in area: vegetation is sparse

Water depth:

River Bottom heavy alteration of the river bottom

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:50AM - 11:35 AM	12°C	54 °F	Read total of 8 times – all same
Wind Speed & Direction	9:50 AM through 11:35 AM	Beaufort chart 2	SW	Used long stick with ribbon to assess

Cloud Cover	19:50-11:35 AM	Overcast	drizzle	
Weather today	Overcast & drizzle			
last 3 days	Sunny with some rain			
Water	Slightly choppy			
Water Temperature – average 2 readings per	9:50 AM	14.8°C	10:40 AM	14.9°C
	10:00 AM	14.7	11:00 AM	14.9
	10:15 AM	14.8	11:20 AM	14.9
	10:35 AM	14.8		
Turbidity				
<i>Long site tube – used 60 cm site tube</i>	9:50 AM	39 cm	10:40 AM	33.5 cm
	10:00 AM	37.8 cm	11:00 AM	37.3 cm
	10:15 AM	36 cm	11:20 AM	32.5 cm
	10:35 AM	35.3 cm		
Chemical				
DO	Not read			
<i>Drop count</i>				
pH	9:50 AM	6.9	10:40 AM	6.9
<i>meter – average of 2 readings per group</i>	10:00 AM	6.9	11:00 AM	7.1
	10:15 AM	6.9	11:20 AM	6.9
	10:35 AM	7.0		
Salinity	9:50 AM	1614 ppm	Total	2916 ppm
<i>Quantab chloride reading</i>	10:00 AM	1610	Salinity	2909 ppm
	10:15 AM	3834		6929 ppm
	10:35 AM	2060		3721 ppm
	10:40 AM	2660		4805 ppm
	11:00 AM	1610		2909 ppm
	11:20 AM	2660		4805 ppm
Fish Catch – HS used seine, fish trap and crab pots	The high school team seined and we looked at their catch – included: Atlantic Silverside White Perch Striped Bass Bay Anchovy Blue Crab Ghost Shrimp Comb Jelly (ctenophores)			
Tides				
Group 1	9:50 AM	Reference	Tides- Several sand filled jugs were placed along the tide line. Students noted the change in tide (rising or falling- no numerical data was recorded for this section)	
	10:00 am	Rising		
	10:15 am	Rising		
	10:35 am	Rising		
Group 2	10:40 am	Reference		
	11:00 am	Rising		
	11:20 AM	Rising		
	11:30 AM	Rising		

<i>Currents</i>	Time			
<i>Other Observations</i>	Little to no recreational traffic took place as the weather was gloomy and forecasts predicted heavy rain.			