

**Snapshot Day 10/18/11 Data
(Salt Front RM 35.7)
RIVER MILE 28**

Nyack Memorial Park

Tom Perry - Nyack High School APES Class 50 students, 11-12th graders

Latitude 40°05.243'N, Longitude 73°54.988 'W

Location: Nyack Park where Nyack Brook feeds in

Area: Open and grassy, has a parking lot, used for picnics, fishing

Surrounding Land Use: 100% park

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

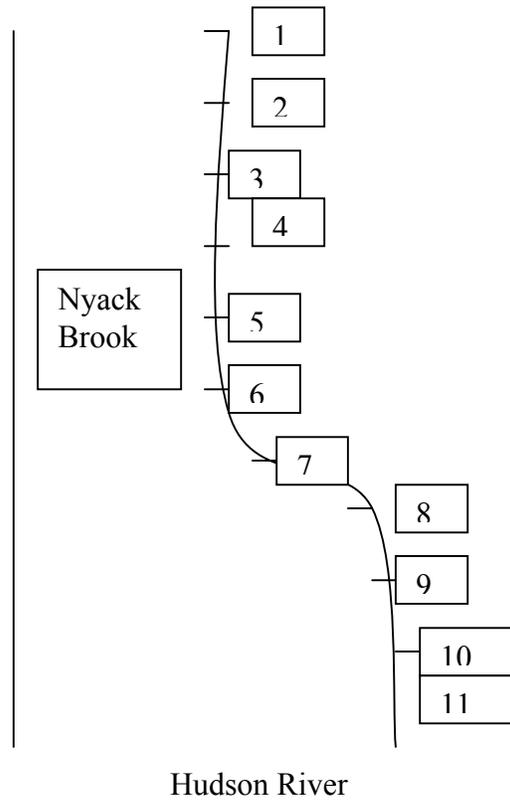
Plants in area: no water plants in area

Water depth: varied

River Bottom – sandy/muddy bottom , water calm

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature				
Wind Speed				
Cloud Cover	Clear			
Weather today				
Weather recently	Clear & warm			
<i>Turbidity</i>	Lower tide	41.5 Pier 46.0 Dock	Higher Tide	55.0 Pier 60.0 Dock
<i>Phosphate</i>				
<i>Nitrate</i>				
<i>Fish Catch Seine 12X4</i>	<i>Number Caught</i>	<i>Species</i>	<i>CPUE</i>	<i>Seine</i>
	22	<i>Atlantic Siversides</i>	<i>Menidia menidia</i>	
	6 (small)	<i>Striped Bass</i>	<i>Morone Saxatilis</i>	
	7	<i>Mummichog</i>	<i>Fundulus Heteroclitus</i>	
	2 (large)	<i>White Perch</i>	<i>Monroe Americana</i>	
<i>Sediment Cores Station #10 Sandy Beach</i>		Sandy, Pebbly Sediment		
<i>Tide</i>	10:00	1:00PM	66 cm rise/3 hrs.	

Sketch Map of Sampling Site



Time: _____ 10:00 am _____ Tide: _____ Low _____

<u>Station #</u>	<u>Distance (m)</u>	<u>Salinity (ppt)</u>	<u>Temperature (°C)</u>	<u>DO mg/L</u>	<u>pH</u>
1	0	0.2	15.7	8.02	8.07
2	20	0.0	15.5	7.9	8.06
3	30	0.5	15.0	7.43	8.0
4	40	0.5	15.1	7.56	7.9
5	50	0.2	15.1	7.05	7.84
6	60	0.4	15.2	7.47	7.91
7	70	0.4	15.4	7.65	7.85

8	80	0.4	15.6	6.8	7.75
9	90	1.6	15.5	7.4	7.99
10	100	0.5	15.4	7.7	7.96
11	120	0.6	15.4	8.2	7.91
12	140	0.9	15.8	7.3	7.96

NOTE: Notice how conductivity was much higher at 1:15pm starting at station 6. This represents the saltier water of the rising tide. At stations 6,7 and 8, the bottom water is warmer than the surface water. Why doesn't the warm water rise to the top? At 9,10 and 11, wave action has mixed the water more.

Data Table 2: Time 12:50 PM Tide Higher

<u>Station #</u>	<u>Distance (m)</u>	<u>Salinity (ppt)</u>	<u>Temperature (°C)</u>	<u>DO mg/L</u>	<u>pH</u>
1	0	0.3	16.0	7.75	8.1
2	20	0.5	15.8	7.85	8.2
3	30	0.4	15.8	7.60	8.2
4	40	0.5	15.9	7.79	8.2
5	50	0.6	16.5	7.78	8.1
6	60	0.7	16.7	7.63	8.1
7	70	0.8	16.8	7.20	8.1
8	80	0.8	17.6	7.1	8.1
9	90	1.0	17.9	6.7	8.1