

Day in the Life of the Hudson River 10/20/15 Data
RIVER MILE 28
Nyack Memorial Park
Kirsten Kleinman & Karl Mattesen, Nyack High School 2 APES Classes 60
students, 11-12th graders, 6 adults
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

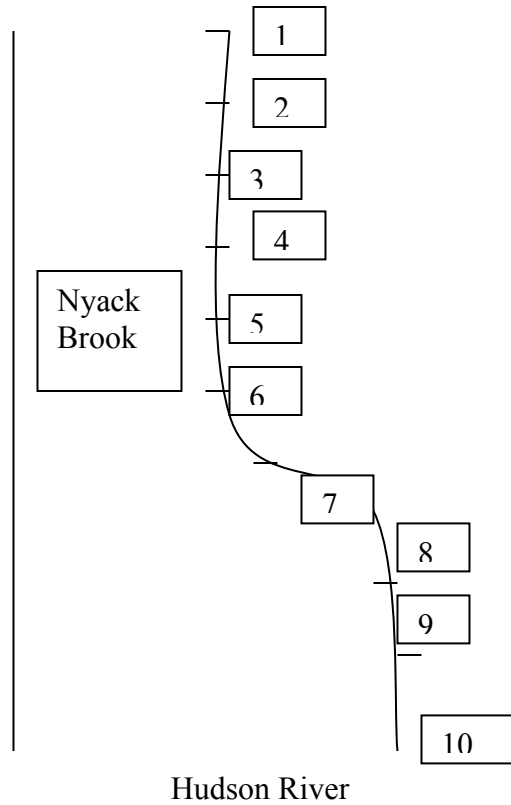
Water depth: varied

River Bottom – sandy/muddy bottom , water calm

This year the Nyack students compared a high tide and a low tide sampling as well as their normal transect that runs from Nyack Brook (Station #1) out towards the Hudson River (Station #10)

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature				
<i>Fish Catch</i> <i>Seine 12X4</i>	<i>Number</i> <i>Caught</i>	<i>Species</i>	<i>Length of</i> <i>longest</i>	<i>Seine</i>
10:10 AM	5	<i>Atlantic</i> <i>Silversides</i>	8 cm	
	12	<i>Striped Bass</i>	10 cm	
	3	<i>Northern</i> <i>Pipefish</i>	15 cm	
	4	<i>White Perch</i>	18 cm	
	3	<i>Banded</i> <i>Killifish</i>	10 cm	

Sketch Map of Sampling Site



Time: 9:15 AM Tide: Low Depth: Surface Sample

Turbidity: Secchi
 7 meters off new pier - 25 cm
 Boat Launch - 20 cm
 Station 7 - 14 cm

Station #	Distance (m)	Depth (cm)	Salinity (ppt)	Conductivity (m/S)	Temp (°C)	DO (mg/L)	pH	Nitrate	Phosphate
1	0	5.5	0.79	1.3	11.8	7.5	7.8	8,8	1
2	10	11	0.81	1.3	11.8	7.3	8.5		
3	20	16	0.82	1.4	12	7.3	7.7		
4	30	55	0.9	1.7	12.1	7.4	7.4		
5	40	31.5	0.94	1.9	12.6	10	7.2		
6	50	13	1.85	2.8	12.4	8.1	7.4		
7	60	35	1.92	2.9	12.9	7.6	7.2		
8	70	25	1.56	1.3	12.7	7.7	7.1		
9	80	6.5	2.31	1.3	12.4	7.6	7.4		
10	150	13.5	6.46	8.4	12.7	7.4	7.3	4.4	2

Data Table 2: Time 12:30 PM Tide High Depth Surface Sample

Turbidity: Secchi

7 meters off new pier - 43 cm

Boat Launch – 20 cm

Station 7 – 25 cm

<u>12</u>	<u>Distance (m)</u>	<u>Depth (cm)</u>	<u>Salinity (ppt)</u>	<u>Conductivity (mS)</u>	<u>Temp (oC)</u>	<u>DO (mg/L)</u>	<u>pH</u>	<u>Nitrate</u>	<u>Phosphate</u>
1	0	8	0.75	1.3	12.7	7.7	9	6.6	1.0
2	10	11	0.75	1.3	12.9	8.2	8		
3	20	25	0.76	1.4	13.3	8.3	7.7		
4	30	68	0.72	2.1	13.2	10.2	7.6		
5	40	45	1.23	2.1	13.4	7.2	7.5		
6	50	23	1.31	5	14.4	8.2	7.4		
7	60	58	1.68	3.6	15.7	7.6	7.4		
8	70	34	3.67	5.2	16	7.6	7.4		
9	80	15	6.68	9.4	16.4	7.7	7.5		
10	150	27	7.03	12.1	15.6	8	7.7	4.4	2.0