

Day in the Life of the Hudson River 10/4/12 Data
RIVER MILE 31 – Hook Mountain State Park
Laurie Seeman & Joanne Dickey– Strawtown Art & Garden Studio
Lorraine Marden, Jennifer Armoceda -Blue Rock School –
5th, - 8th – 41 students, total 9 adults
40°7'9"N Latitude - 73°54'49" W Longitude



Location: Nyack Beach near Hook Mountain Sandy Beach right side of riverfront area
Area: Park/Boat launch, sandy beach area on the point with riprap
Surrounding Land Use: 20% urban/residential; 60% forested; 20% beach
Sampling Site: Sandy beach – with a lot of trees, picnic tables, sandy and rocky at edges, covered with vegetation beyond the beach, stone wall, riprap shore, collected wood debris, charcoal, and slag –not many houses.
Piping coming into river south of sampling site
Plants in water: no plants in area
Plants in area: none
Water depth: 32 cm
River Bottom –sandy, rocky, muddy – a bit of clay

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:10 AM	18.2°C 65°F		
	12:55 PM	22°C 72°F		
Wind Speed	Beaufort 1-2	Not enough wind for anemometer	SE	
Cloud Cover	Mostly cloudy			
Weather today	Cloudy AM then light rain until noon (1/4 inch) and some wind- overcast –			
Weather last 3 days	Rainy, mid 70s, wet, very cloudy, foggy			
<i>Water</i>	Began calm and then turned to choppy			
<i>Water</i>	10:46 AM	70°F	21.12°C	Avg –

<i>Temperature</i>		74	23.35	72°F 22°C
	11:45 AM	72°F 71 73	22°C 21 22.79	Avg – 72°F 22°C
	1:30 PM	78°F 76 78	25.56°C 24.46 25.56	Avg – 77.5°F 25°C
<i>Turbidity</i>	11:00 AM	0 JTU 40 70		Avg – 37 JTU
<i>Chlorophyll</i>	1:15 PM	0.7		
<i>Chemical</i>				
DO <i>Drop count</i>	11:06 AM	5 mg/L	22 ° C	55%
pH <i>Indicator solution</i>	10:28 AM	7.5 6.75 7		7.08
Salinity <i>Test strip</i>	10:58 AM	1926 ppm CL- 2791 2475	2397 ppm avg. chl-	4330 Total Slainity
<i>Fish Catch</i>		<i>Number Caught</i>	<i>Species</i>	<i>Length of largest</i>
<i>Seine 25 ft. X 4ft. Mesh 0.25 inch</i>		4	Striped Bass	2.5 inch
<i>Total 228 fish in 12 pulls</i>		60	Atlantic Silversides	3 inch
		4	Blue Crabs	1.5 inch
		150	Moon Jellies	0.25 inch
		Totals 228	Diversity 4	
<i>Tides</i>	<i>Time</i>	<i>Height</i>	<i>Rate of Change</i>	<i>Rising/Falling</i>
	10:24AM	32 cm	Set stick	rising
	10:59 AM	47	15 cm/32 mins	rising
	11:00 AM	50.6	3.6cm/1 min	rising
	12:42 PM	74	23.4cm/1:42 min	rising
HT -12:18 PM	1:21 PM	80	n/a	
<i>Currents*</i>	<i>CM/60 secs</i>	<i>Cm/Sec</i>	<i>North/South Ebb/Flood/Still</i>	<i>Knots</i>
<i>10:37 AM</i>	76.2	1.27 cm/sec	Ebb	0.0247 kts
<i>11:30 AM</i>	132	2.2 cm/sec	Ebb	0.0428 kts
<i>12:45 PM</i>	60	1 cm/sec	Ebb	0.0411 kts
<i>1:32 PM</i>	127	2.11 cm/sec	Ebb	0.0194 kts
<i>Shipping Traffic</i>	1:30 PM	Cargo Ship		Southbound
<i>Other Observations</i>				