

Day in the Life of the Hudson River 10/10/13 Data
(Salt Front RM 69.3)
RIVER MILE 127 – Stuyvesant Landing
Chelsea Benson, Leanne O’Grady - Columbia County Soil & Water Conservation
District
Elizabeth Pagnani, The Alternative Learning Center (TALC) – 3-11 yrs. –
13 students & 5 adults
Latitude 47 N Longitude 73W (topo map)



Location: Sandy point of Stuyvesant Landing, Columbia County. The sandy point is just south of the parking lot.

Area: forested area with narrow beach used for swimming, picnics & camping by permit. Park/Boat launch, sandy beach area on the point

Surrounding Land Use: 95% forested, 5% beach – used for picnics, swimming, campfires, sandy beach and dense woods behind

Sampling Site: Beach area

Plants in area: no plants in water

Water depth: waded in approx. 4 ft.

River Bottom –gradual slope, sandy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	3:47 PM	60 °F 16°C	4:37 PM	59 °F 16°C
Wind Speed	Beaufort 0	0 knots Anemometer	Small amt.. from North	
Cloud Cover	overcast			
Weather today	Cloudy and overcast			
Weather last 3 days	Mild weather - mid 60°F during day – low 40°F night.			
<i>Water</i>	Calm			
<i>Water Temperatur</i>	4:05 PM	61°F 16 °C		

	5:00 PM	61°F 15°C		
<i>Turbidity – short site tube</i>	4:10 PM	60 JTU		
<i>Chlorophyll</i>	3:15 PM	2		
<i>Chemical</i>				
DO <i>Drop count</i>	3:45 PM	9.0 mg/L	17 ° C	90%
pH <i>pen</i>	3:38 PM	8.8 8.5		
Nitrates	4:05 PM	trace		
Phosphates	4:02 pM	2.0ppm		
Alkalinity	3:45 PM	70 ppm 66 ppm		Average 68 ppm
Salinity <i>Quantab Test strip</i>	3:45 PM	.005* readings on wick stick	28 ppm Chl ⁻	51 ppm total salinity
<i>Fish Catch –2 pulls - Seine 40 ft. X 3 ft. Mesh 0.25 inch</i>	<i>Number Caught</i>	<i>Species</i>	<i>Size of largest</i>	<i>2 seines –5 min. pulls-</i>
<i>2nd seine</i>	5	Spottail shiner	10 cm	
<i>2nd seine</i>	5	y-o-y striped bass	12 cm	Diversity 4
<i>1st seine</i>	1	Banded Killifish	5 cm	
<i>2nd seine</i>	1	Bluegill sunfish	7 cm	Grand Total 12
<i>Tides</i>	3:40 PM	Rising	19 cm	
	3:45 PM	Rising	26 cm	1.4 cm/min
<i>4:40 PM</i>	4:00 PM	Rising	35 cm	0.6 cm/min
	4:20 PM	Rising	46 cm	0.55 cm/min
<i>Currents</i> North/Flood	3:55 PM	409 cm/60 secs	6.8 cm/sec	0.13 knots
North/Flood	4:35 PM	711 cm/60 sec	11.9 cm/sec	0.22 knots
Our sampling beach is set back slightly from the direct current. We managed to get the orange out into the current.				
Ships	Time	Type	North/Southbound	Light/Loaded
	3:10 PM	Party boat	Southbound	3 stories tall!
	3:30 PM	Tug with barge	Southbound	light
	4:30 PM	Sailboat	Southbound	
	4:30 PM	Sailboat	Northbound	