

Snapshot Day 10/14/10 Data
(Salt Front RM 36.0)
RIVER MILE 127 – Stuyvesant Landing
Chelsea Benson & Leanna O’Grady - Columbia County Soil & Water
Conservation District
& Doug Reed, HBRW
Sarah Howard, The Alternative Learning Center (TALC) – 16-12 yrs. – 8 students
& 10 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 used for swimming, picnics & camping 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, fallen trees, water area is sandy with little mud further out – gently sloped beach, shallow quite a distance and then shipping channel

Plants in area: no plants in water

Water depth: waded in approx. 2 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	3:50 PM	68°F 20°C	4:08 PM	60°F 15°C
Wind Speed	1.5 knots	Anemometer	NW	

Cloud Cover	overcast	Sprinkles 4:50 PM		
Weather today	Started off overcast – by the time we were leaving few sprinkles had developed			
Weather last 3 days	Daytime sunny 60°F but at night cool in the 30°F range. Some locations near the river had frost.			
Water	Calm – no waves			
Water Temperature	3:50 PM	58°F 14°C		
	4:10 PM	58°F 14°C		
Turbidity – short site tube	3:55 PM	60 JTU	4:15 PM	60 JTU
Chlorophyll	3:30 PM	5.0	Had sand in it	
Chemical				
DO	3:45 PM	8.6 mg/L	15 ° C	85%
Drop count				
pH pen	3:30 PM	7.5 7.4 7.8		Average 7.56
Nitrates	4:10 PM	0.22 ppm		
Phosphates	4:05 PM	0.47 ppm		
Alkalinity	3:35 PM	104 ppm 92 ppm 98 ppm		Average 98 ppm
Salinity Test strip	3:45 PM	28 ppm / Chloride	(0.8 Quantab reading)	35 ppm Salinity
Fish Catch – 4:45 PM – 2 pulls	Number Caught	Species	Size of largest	2 seine with fish catch
Seine 40 ft. X 3 ft. Mesh 0.25 inch	3	Spottail shiner	10 cm	
3 minute pull-seine #1	4:20 PM	0 catch	8 yd pull	CPUE - 0
Seine #2	4:40 PM	3 catch	10 yd. pull	CPUE .86
Tides	3:35 PM		35 cm	
	4:00 PM	Falling	33 cm	.08 cm/min
	4:15 PM	Rising	35 cm	.13 cm/min
	4:30 PM	Rising	39 cm	.26 cm/min
Currents	3:40 PM	North	Flood	
	4:10 PM	North	Flood	

Beach is set back from the direct current of the river. There is an outcrop of land 1/8 mi south of our sampling location; may cause a swirling current.

<i>Other Items</i>				
<i>Core Description</i>	<i>Total Length</i>	<i>Top Layer</i>	<i>Second Layer</i>	<i>Describe</i>
	8 inches	Gray on bottom	Dark tan at top	All sand but color layers
Shipping	4:05 PM	Pleasure Boat	Northbound	
Traffic	4:30 PM	Pleasure Boat	Southbound	(return of above)
Observations	We saw a flock of approx 20 birds that we thought were cormorants. They landed near the sampling area, stuck around for 1-2 minutes and then flew south. Doug, Leanna, and I have never seen that many together at once and they flew a slightly higher than cormorants normally do... So, who knows? Great sight though. (Comment from Steve Stanne - Cormorants do migrate in flocks so this would not be unusual behavior, although wonderful to see.)			