

**Snapshot Day 10/14/10 Data
(Salt Front RM 36)
RIVER MILE 102**

**Saugerties Light House, Town of Saugerties, Ulster Co.
Peter Seekamp & David Lewis, Woodstock Day School
grades 6th & 10th , – 25 students and 5 adults**



Location: Saugerties Light house @ northern bank of peninsula

Area: fishing, swimming beach, has a building with restrooms

Surrounding Land Use: Forested 60%, Beach 20%, Commercial (bed & breakfast) 5%, Urban/Residential 15%

Sampling Site: beach, bulkhead altered banks years ago, covered with vegetation, collected wood/debris in area, shoreline riprap at lighthouse, piping entering the river.

Water depth: 10 cm

River Bottom : rocky,

Plants in area: No plants in sampling area

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:54 AM	57°F 12°C	12:23 PM	62°F 19°C
Wind Speed	2 on beaufort			
Cloud Cover	Partly cloudy	Southern		
Weather today	Was a light windy day. While it was not blustering the water did ripple and from time to time the pages of the data sheet			

Weather today	Was a light windy day. While it was not blustering the water did ripple and from time to time the pages of the data sheet would get blown off the table.			
Weather recently	Windy and rainy. Average temp. has been around 60°F at noon. Today is one of the few recent days where there has been no rain.			
Water Temperature				
	11:40 AM	15°C		
Water Calm or Choppy	Choppy			
Turbidity secchi	11:40 AM	19.5 cm		
	11:40 AM	68.8 cm		
Chlorophyll	10:47 AM	1.0		
Chemical				
DO (ampules)	10:45 AM	12 mg/L	15°C	120%
	11:27 AM	9 mg/L	15°C	90%
	12:30 PM	9 mg/L	16°C	90%
pH – pH meter & chemical test	10:30 AM 11:10 AM 12:20 PM	7.2 7.0 7.0		Average 7.06
Phosphate	11:20 AM 12:40 PM	1.5 ppm 0.5 ppm		Average 1.0 ppm
Nitrates	11:18 AM	5 mg/L 1 mg/L 1mg/L		Average 2 mg/L
Salinity	1:17 PM	0.0025 Qunatab	14 ppm chloride	17.5 ppm salinity
Fish Catch - 9'seine X 3.8 ft. wide – 18 seines	Number Caught - 47 total	Species – diversity 7	Length of largest	Seining data
Group 1	16	Shiners	14 cm	7 pulls = 0 fish
	1	Darter	10 cm	5 pulls = 3 fish per
	1	Banded killi	8 cm	1 pull=10 fish
Group 2	12	Shiners	10 cm	4 pulls = 4 fish
	2	Killi	11 cm	3 pulls =2 fish
	2	Black Crappie	8.0 cm	
	1	Yellow perch	10 cm	(30X9X12) /39.37 = 47/82.3 = .57
	1	Smallmouth	2.5 cm	.57 CPUE

	1	White Perch	11.0 cm	
Group 4	1	Shiner	10 cm	
	1	Darter	6 cm	
	2	Black Crappie	8 cm	
	1	Smallmouth Bass	12 cm	
	*4	Striped Killi	10 cm	* a marine species expect there were banded killifish
	1	White Perch	6 cm	
Macro	1	Blue Crab		
Observations	As tide goes out # fish decreases, shiners decreased with dropping tide.			
Tides	Time	Height	Falling/Rising	
	10:30 AM	10 cm		
	11:00 AM	5.5 cm	Falling	
	11:30 AM	3 cm	Falling	
	12:00 PM	0 cm	Falling	
	12:30 PM	0 cm	Slack	
Currents	TIME	Cm/60 secs	Cm/sec	N/S and E/F/S
	12:24 PM	150	2.5 - .05 kts	South/Ebb
	12:28 PM	0	0 -	Still
	12:30 PM	270	4.5 - .09 kts	N/Flood
	1:32 PM	30	.5 - .01 kts	Ebb
The lighthouse creates an embayment. This swampy area most likely had a different current and tide than the middle of the Hudson would have.				
Core	Length	Top	Bottom	Description
	15.5 cm	2.5 cm	13.0 cm	ALL SAND
		Slightly tan	Dark grey	Roots stringing through it. Very little odor
Ships	11:52	Barge	RTG-120	Southbound full
	11:53	Tug	RTG-120	Southbound
Observations	Seagulls were seen on the strip of rocks leading towards the large beacon. Warblers and chickadees were also heard and seen. Overall it was a clam, breezy day and the water was very calm. Not many people out in ships either. Around early afternoon a couple of kayakers and boaters though. On the beach snails, interesting texturized rocks, crabs, and glass smoothed by the water much like beach glass on the beach.			
Almanac Entry:	The day at the Saugerties Lighthouse was a calm one. In the			

morning, the chirping of warblers and chickadees was heard all the way down the trail. Small beetles scurried across the dirt into piles of fallen leaves. Squirrels and chipmunks scuttled through the invasive palm reed. When walking down to the water, many of the students commented on the large metal beacon, confused about its purpose. There was one distinct difference between the river water and where the water streamed in from another body. The difference was color – the water flowing into the river was light brown from all the sediments and muddy on the bottom stirred up from the prior rain. (photo)



The morning was bitter and cold, and many of us bundled up in jackets, hats and scarves only to shed our coats as the time passed the day warmed up and a nice breeze was often present.

As for boating and kayaking, it was rather calm also. A few kayakers were spotted and maybe two and three boaters at most.

My groups of students were located in a prime spot, in front we faced the water and in the back we faced the plants and wildlife. Many of us really enjoyed just sitting and observing all that was happening around us.