

A Day in the Life of the Hudson River 10/20/16 Data
(Salt front ~ RM 83)
RIVER MILE 102
Saugerties Light House, Town of Saugerties, Ulster Co.
Marie Daniels, Jennifer Reid & Matthew, Woodstock Day School
Grades 3rd & 7th, 18 students and 8 adults
42.04°N, 73.92 °W



Sampling Site – by Madeline

Location: Saugerties Light house @ northern bank of peninsula – Beach opposite the floating dock with porta potty on it

Area: Pier of sorts, boating, fishing, swimming beach, picnics, hiking, walking

Surrounding Land Use: Forested/Marsh 80%, Beach 20%

Sampling Site: beach, bulkhead altered banks years ago, covered with vegetation, collected wood/debris in area, shoreline riprap at lighthouse, shoreline is sandy, muddy, rocky

River Bottom: muddy, sandy

Plants in area: Total plant make up 50% water chestnut, and 30% water celery, 20 % reeds

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature	10:48 AM	8°C	46° F	Avg – 9.3°C 49° F
	11:27 AM	5°C	41° F	
	11:17 AM	15°C	57 F	
Wind Speed	11:30 AM	Beaufort #1		
	11:15 AM	Beaufort #2		
Cloud Cover	11:30 AM	overcast	76-100% cloud	
Weather today	No rain			
Weather recently	Warm 80 degree temps			
Water Temperature	10:30 AM	10 °C	2 ft. water	
	11:50 AM	15°C	3 ft. water	
	11:55 AM	15°C	2 ft. water	
Water Calm or Choppy	calm			
Turbidity Long site tube	11:05 AM	39 cm		Average – 35.1 cm
	11:36 AM	31.2 cm		

	11:00 AM	26 cm 32 35	Average 31 cm	
	11:28 AM	26 34 25	Average – 28.3 cm	
	12:01 PM	26 cm 27 29	Average 27 cm	
<i>Chemical</i>				
DO (ampules)	NR			
pH – color match kit	NR			
Salinity Quantabs	NR			
<i>Fish – 50 ft. net</i>	Time	Species	# caught	Length of largest
<i>Tides</i>	Time	Height	Falling/Rising	
	NR			
<i>Currents</i>	Time	Cm/30 secs	Cm/sec	N/S - E/F/S
	11:00 AM 11:10 AM 11:48 AM	208cm/30 sec 250 cm/30 200 cm/30	7 cm/sec 8.3 cm/sec 6.6 cm/sec	
<i>Sediment Core - Length</i>	Observation	Rare	Common	Abundant
<i>10:50 AM -</i>	No length	leaves	Mud sand	
<i>11:15 AM</i>	No length	Leaves Macroinvert		Sand
<i>11:30 AM</i>	No length			Sand
<i>12:05 PM</i>	No length			Mud Sand Wood
<i>Shipping Commercial (C)</i>	10:48 AM 11:00 AM 11:30 AM 11:35 AM	Red Yellow White Grey Red	UBC - Seattle Tugboat NR tugboat	S- Light S- Light N – Loaded SE
<i>Recreational (R)</i>	10:47 AM 11:50 AM 11:55 AM	Black NR Black	Sailboat Speedboat	S -Light N- People S - People
<i>Observations</i>	Lots of rocks, Brick, Water Chestnut devil heads, lumps of coal Crow, Large boats going through the river can push the water towards the shore – does this impact the fish by pushing them too? Water Chestnut are draining the oxygen from the water			