

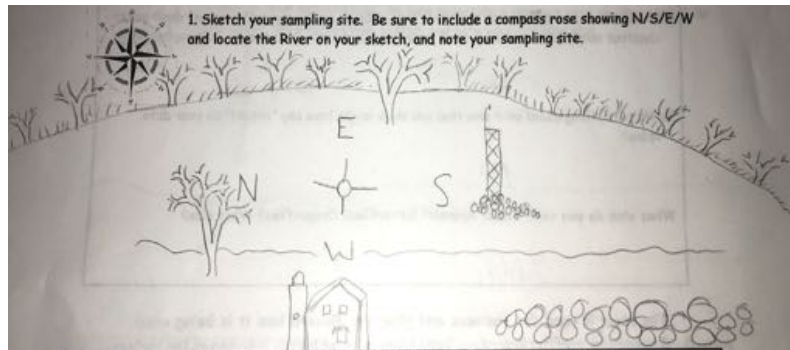
Day in the Life of the Hudson River 10/16/18 Data
SAUGERTIES LIGHTHOUSE

RIVER MILE: 102

Salt Front: ~RM 24

Woodstock Day School- Marie Daniels
Saugerties Lighthouse- Patrick Landwe

50 students 2nd and 7th grade. 6 adults
Latitude 42.072958 N & Longitude – 73.935622 W



Location: Saugerties Lighthouse, Town of Saugerties, Ulster County, NY

Area: Northern bank of the peninsula, beach opposite the floating dock with a porta potty on it

Surrounding Land Use: Forested/March 80%; Beach 20%

Sampling Site: Beach, bulkhead, altered banks, covered with vegetation, riprap at lighthouse

Shoreline: Sandy, muddy, rocky

Plants in area: no plants in water area

Water: Choppy

ITEM	Time	Reading		Comments
Physical				
Air Temperature:		°C	°F	
Wind Speed:		Beaufort 2	Northwest	
Weather Today:	Clear (<25%)			
Weather Previous:	Just started getting cold.			
Water Temperature	11:05 AM	15.6 °C	60 °F	
	11:07 AM	15.6 °C	60 °F	
	11:09 AM	15.6 °C	60 °F	
Turbidity-				
Chemical				
Salinity- LR Quantabs	10:50 AM	60 ppm Cl-	108 ppm TS	
		59 ppm Cl-	107 ppm TS	
Dissolved Oxygen –	Time	Temp	ppm DO	% saturation
	11:00 AM	15.6 °C	8 ppm	73%
	11:12 AM		19 ppm	
	11:22 AM	10 °C	12 ppm	107%
pH -	11:00 AM	7		

Biological						
Fish – seine		Number	Name		Length of longest	11:10 AM
		23	American Shad		3.5 Inches	
		1	Striped Bass		12 Inches	
		1	Darter		12 Inches	11:30 AM
		4	Pumpkin Seed Sunfish			
		26	Banded Killifish			
		1	Goldfish		3.5 Inches	11:45 AM
		1	White Perch		3.5 Inches	
		1	Mummichog		3 Inches	
		1	Spottail Shiner		4 Inches	
		5	Striped Bass		3 Inches	
TOTAL: 64		DIVERSITY: 10				
Macroinvertebrates- Seine		Number	Name		Length of longest	
		3	Blue Crab			
		TOTAL: 3		DIVERSITY: 1		
Tides		Time	Rising, Falling, Still	Height (cm)	Rate of Tidal Change (cm/min)	
		10:47 AM		0		
Currents Flow		Time	Cm/second	Knots	North/South	Ebb/Flood/Still
				0		
Sediment Core		Water depth	Length	Oxid Top	Grain Size	Other
			19 cm	No	Abudant: Sand Rare: Clay, mud, brick	
11:15 AM		Shallow	9 cm	No	Common: mud, sand Rare: Living vegetation	
11:14 AM		4 inches	38.1 cm	No	Abudant: Sand Common: mud, living vegetation Rare: Clay	Light sulfur smell (anoxic decomposition)
Boats	Time	Name	Color		North/South	Loaded/Light
Commercial	11:00 AM	Intermarine	Blue/White		North	Loaded
Commercial	1:00 PM		Blue/White		North	Loaded
Other Observations		1 bird				