

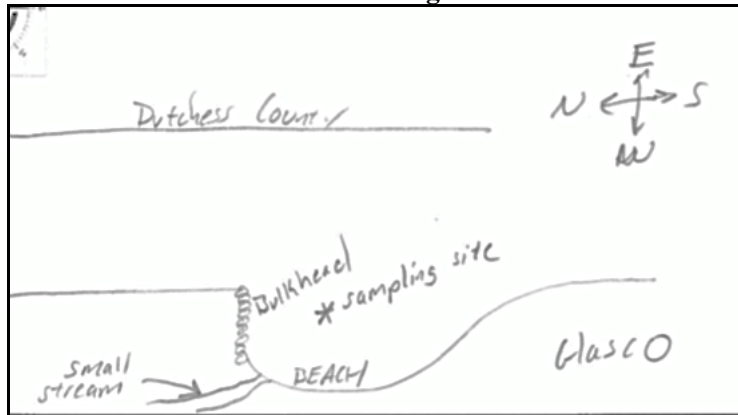
**Day in the Life of the Hudson River 10/16/18 Data
FALLING WATERS PRESERVE, RIVER MILE: 100.5**

Salt Front: ~RM 24

Saugerties High School- Brian Robinson

20 students 11th -12th grade, 1 adults

Latitude 42.046752 N & Longitude - 73.933907 W



Location: Falling Waters Preserve (protected area), Saugerties, Ulster County, NY

Area: Forested, cove with a shallow beach

Surrounding Land Use: 50% Forested; 50% Beach- mostly forested with a viewing area overlooking the beach/cove area

Sampling Site: Parkland, beach, wood bulkhead, lots of rocks where we sample so not much plant growth

Shoreline: Sandy

Water: depth- 2 feet, calm

Plants in area: 10% water celery; duckweed

River Bottom: Sandy

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature:</i>	8:20 AM	6.8 °C	44.24 °F	
	8:40 AM	6.2 °C	43.16 °F	
<i>Wind Speed:</i>				
<i>Weather Today:</i>	No Rain, Clear (<25% cloud cover)			
<i>Weather Previous:</i>	Rained yesterday, cold			
Water Temperature	8:20 AM	Avg: 15.5 °C	Avg: 59.9 °F	
	8:27 AM	Avg: 14 °C	Avg: 57.2 °F	
	8:45 AM	Avg: 12 °C	Avg: 53.6 °F	
Turbidity - secchi disk	8:30 AM	66 cm		
Chemical				
<i>Salinity- LR Quantabs</i>	8:30 AM -	*51 ppm Cl ⁻	92 ppm total sal.	*Recorded .8ppm so maybe 0.008 %NaCl
<i>DO – drop count kit</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	8:30 AM	15 °C	10	96%
<i>Alkalinity- test strips</i>	8:30 AM	60 ppm		
<i>Nitrates</i>	8:30 AM	2 ppm		
<i>Phosphates</i>	8:30 AM	0.2 ppm		
Fish- Seine- 30 feet	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
	8:30 AM	4	Spottail Shiner	8 cm
		10	Banded Killifish	7 cm
		1	Pumpkinseed	6 cm

Fish Totals		TOTAL: 15	Diversity: 3		
Macroinvertebrates		Number	Name	Length of longest	
<i>Seine- 30 feet</i>		2 males 1 2	Blue Crab Leech Snails (<i>Eastern Mud</i>) Tiny mussels		
Macroinvertebrate Totals		TOTAL: 5	Diversity: 4		
Plankton		20	Copepods		
Currents Flow		Cm/second	Knots	North/South	Ebb/Flood/Still
8:30 AM				South	Ebb
Boats	Time	Name	Color	North or South	Loaded or Light
Commercial		Independence	White	Northbound	Loaded
Other Observations		Lots of bricks, few small shell bits, water chestnuts			