

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

GREEN ISLAND PARK

Green Island, NY

RIVER MILE: 153

Salt Front: ~ RM 24

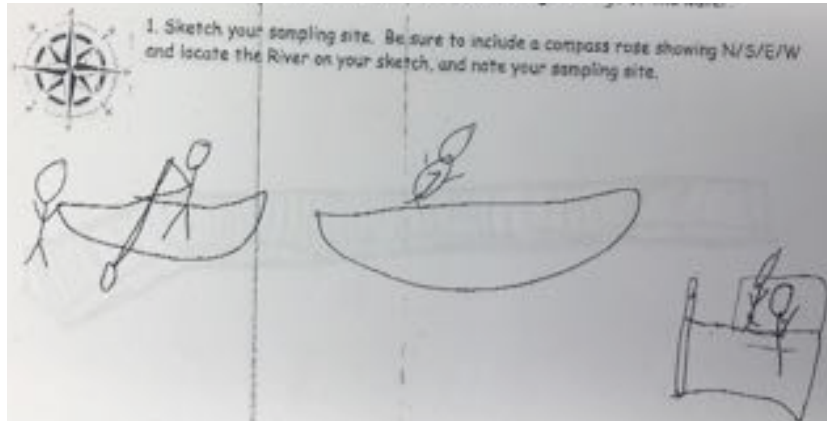
Rensselaer Polytechnic Institute- 16 students, undergraduates

Classical Conversations- 11 students 6th – 10th grade, 5 adults

Sarah Cadieux, RPI

Eleni Solar, Classical Conversations

Latitude 42.7481671 N & Longitude – 73.6889391 W



Location: Green Island Park boat ramp, below the Troy Dam, Albany County, NY

Area: Beach area with a lot of vegetation, very muddy and rocky. The Troy dam is directly to the north.

Surrounding Land Use: 88% Rocky; 41% Industrial/Commercial; 5% Urban/Residential, 5% Forested

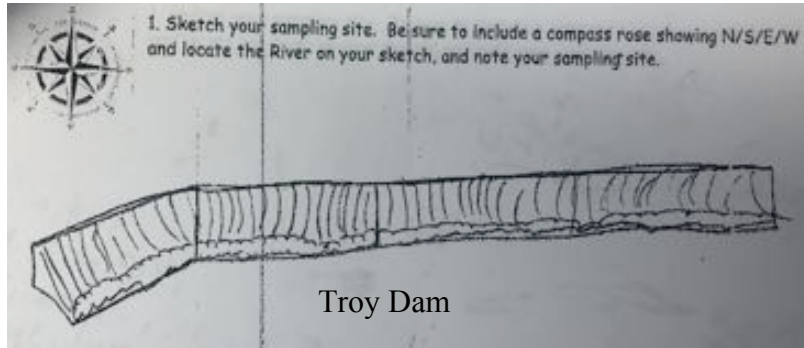
Sampling Site: Beach; banks altered; riprap (large rocks); concrete bulkhead; pipe entering the water

Shoreline: 80% Rocky; 20% Muddy

Water Depth: 2-4 feet

Plants in area: No plants in water area; leaf litter on ground

River Bottom description: muddy, weedy, rocky



<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature</i>	2:39 PM	12 °C	53°F	
<i>Wind Speed: anemometer</i>	2:40 PM		Beaufort #2	
	2:41 PM	3.1 knots	Beaufort #1	North
	2:41 PM	3.0 knots	Beaufort#0.5	North
	2:41 PM	2.7 mps = 5.2 kts	Beaufort #1	North
	2:45 PM	3.1 kts	Beaufort #1	Northwest
	2:45 PM	2.7 mps= 5.2 kts		
2:45 PM	4.8 mps= 9.3 kts			
<i>Weather today</i>	No rain, partly cloudy (26-50%)			
<i>Weather recently</i>				
Turbidity - long sight tube	3:00 PM	66.4 cm		
	3:07 PM	66.4 cm		
	3:10 PM	66.4 cm		
	3:15 PM	66.4 cm, 40.8 cm		
	3:15 PM	66.4 cm, 70.8 cm		
Chemical				

<i>Salinity- Low Range Quantabs</i>	3:30 PM	<32 ppm Cl ⁻		<i>*Below Detection</i>
<i>pH – Test strips</i>	3:15 PM 3:20 PM 3:24 PM	7, 6, 6, Avg: 6.33 6, 6, 7, Avg: 6.33 6, 7, 6, Avg: 6.33		
<i>Fish</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
<i>DEC electro-shocker</i>	3 1 1 3 2 1 1	Catfish Shorthead Red Horse (Sucker) Sunfish American Eel Walleye Striped Bass Small Mouth	YOY	<i>* Each group looked at the bucket of fish that the DEC caught with an electro-shocker. They didn't have enough time to do a comprehensive fish count.</i>
Fish Totals	TOTAL: 12	Diversity: 7		
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
	1	Crayfish		
Macroinvertebrate Totals	TOTAL: 1	Diversity: 1		
<i>Tides- tide stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height</i>	<i>Rate of Tidal Change (cm/min)</i>
	2:10 PM 3:30 PM	- Falling	- 8" lower	- 0.1
<i>Current-</i>	<i>cm/second</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
2:55 PM 3:10 PM	38.1 33.2	0.74 0.65	South South	Ebb Ebb
<i>Boat Traffic</i>	<i>Name</i>	<i>Color</i>	<i>North or South</i>	<i>Loaded or Light</i>
2:21 PM	Dutch Apple Cruise	White	North	People on boat