

Day in the Life of the Hudson River 10/16/18 Data
Above the Troy Dam and the Head of Tide
PEEBLES ISLAND STATE PARK,
Waterford, NY
RIVER MILE: 154
Salt Front: ~ RM 24
Pine Hills Elementary School-
70 students 4th grade, 12 adults
Rebecca Zimmerman
42°47.051'N and 73°40.706'W



Overall site note: This location is above the head of tide so we measure depth and flow. This year the water level is much higher due to all the rain. The grassy embankment we normally work on is much smaller than in prior years.

Location: Pavilion at Pebbles Island Park at the confluence of the Hudson River and the Mohawk River, Waterford, NY

Area: park just north of the Troy dam at the pavilion, grassy embankment, rip rap

Surrounding Land Use: 75% grassy, 25% riprap

Sampling Site: muddy and weedy bottom

Shoreline: grassy vegetation, riprap, muddy

Plants in area: 20% plants in the water

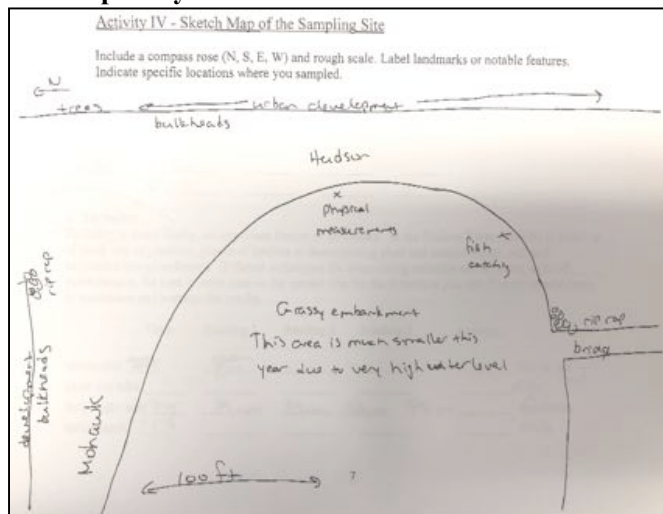
Water Depth: 6 feet

River Bottom description: muddy, weedy

Water: calm

Boats: 0 vessels

Other: Woodpecker



<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature</i>	10:00 AM	12.78 °C	55 °F	
	1:15 PM	15.5 °C	60 °F	

<i>Wind Speed</i>	10:00 AM 10:52 AM 11:48 AM 1:15 PM	1.4 m/s 2.3 m/s 2.8 m/s 0.6 m/s	2.72 knots 4.47 knots 5.44 knots 1.17 knots	North South North North
<i>Weather today</i>	No Rain, partly cloudy			
<i>Weather recently</i>	Rain the previous day			
<i>Flow</i>	<i>Cm/second</i>	<i>Knot</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
10:00 AM 10:52 AM 11:48 AM 1:15 PM	2.9 6.8 10.3 5.6	0.056 0.132 0.200 0.109	South South South South	N/A above head of tide
<i>Water Temperature</i>	9:50 AM 10:30 AM 11:20 AM 1:00 PM	11 °C 10 °C 10.56 °C 10 °C	52 °F 50 °F 51 °F 50 °F	
<i>Turbidity - long sight tube</i>	9:45 AM – 1:15 PM	39 cm, 54 cm, 51 cm, 59 cm		Average: 50.75 cm
<i>Chemical</i>				
<i>DO – drop count</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	10:00 AM – 1:15 PM	11°C	12	110%
<i>pH</i>	9:50 AM – 1:15 PM	7.5, 8, 8, 8 Average: 7.9		
<i>Fish</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
<i>Seine Net: 15 foot net</i>	522 80 1 1	Spottail Shiner Banded Killifish Tesselated Darter Smallmouth Bass	7 cm 7.5 cm 4.5 cm 15 cm	
<i>Fish Totals</i>	TOTAL: 604	Diversity: 4		
<i>Above the Head of tide</i>	<i>Water Depth</i>	<i>Height (cm)</i>	<i>Difference – in cm.</i>	
10:00 AM 10:52 AM 11:48 AM 1:15 PM	NA Unchanged Unchanged Unchanged	20 22.5 22.5 20	NA +2.5 NA -2.5	
<i>Boats</i>	Not a single vessel this year while the kids were observing!			