

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
Cohoes High School-
70 students 9th grade, 8 adults
Laura Murawski
42°47'7N and 73°40'44W

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: 80% forested 20% industrial/commercial

Sampling Site: muddy and weedy bottom

Shoreline: beach, vegetation, riprap, pipe entering the water

Plants in area: no plants

Water: calm

River Bottom description: sandy and rocky

NOTE: Pebbles Island is above the head of tide. Current is measured as flow.

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature</i>	8:37 AM	3.89 °C	39 °F	Bold is the unit they measured in. <i>*measurements vary significantly. Group that measure F seems to have low temperature readings compared to other Pebbles Island Group</i>
	9:00 AM	14 °C	57.2 °F	
	9:25 AM	15 °C	59 °F	
	9:29 AM	3.89 °C	39 °F	
	10:01 AM	3.89 °C	39 °F	
	10:20 AM	14 °C	57.2 °F	
	11:09AM	10 °C	50 °F	
	11:41 AM	14 °C	57.2 °F	
	11:49 AM	8.33 °C	47 °F	
	12:00 PM	8.33 °C	47 °F	
	12:50 PM	8.33 °C	47 °F	
	12:53 AM	15 °C	59 °F	
	1:20 PM	15 °C	59 °F	
<i>Wind Speed</i>	<i>Time</i>	<i>Beaufort</i>	<i>Wind Direction</i>	<i>Cloud Cover</i>
	8:37 AM	2	West	Clear
	9:00 AM	2	West	Part cloud/clear
	9:25 AM	2	Southwest	Part cloud/clear
	9:29 AM	3	West	Clear
	10:01 AM	3	West	Partly cloudy
	10:20 AM	2	West	Partly cloudy
	11:09AM	3	West	Part cloud/clear
	11:41 AM	3	West	Part cloud/clear
	11:49 AM	4/5	West	Mostly cloudy
	12:00 PM	4	West	Mostly cloudy
	12:50 PM	4	West	Mostly cloudy
	12:53 AM	3	West	Partly cloudy
	1:20 PM	4	West	Partly cloudy
<i>Weather today</i>	Partly cloudy Clear			

Water Temperature	8:51 AM 9:30 AM 10:09 AM 10:45 AM 12:02 PM 12:33 PM 1:00 PM	13 °C 10.2 °C 11.3 °C 11 °C 13 °C 11.4 °C 12.8 °C	55.4 °F 50.36 °F 52.34 °F 51.8 °F 55.4 °F 52.52 °F 55.04 °F	
Turbidity - long turbidity tube	9:00 AM 9:30 AM 10:00 AM 10:50 AM 12:00 PM 12:40 PM 1:00 PM	74 cm 85 cm 881 cm 74.5 cm 93.5 cm 79.75 cm 79.4 cm		
Chemical				
DO	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	8:51 AM 9:30 AM 10:09 AM 10:45 AM 12:02 PM 12:33 PM 1:00 PM	13 °C 10.2 °C 11.3 °C 11 °C 13 °C 11.4 °C 12.8 °C	7.7 10.2 11.6 9.8 11.4 10.4 8.8	83 107.2 95 109 99 85
pH	8:51 AM 9:30 AM 10:09 AM 10:45 AM 12:02 PM 12:33 PM 1:00 PM	7.6 7.8 7.6 7.6 7.6 8.2 7.6		
Fish	Number	Name	Length of longest	
	47 8 1	Spottail Shiner Banded Killifish Smallmouth Bass		
Fish Totals	TOAL: 56	Diversity: 3		
Flow	8:37 AM 9:00 AM 9:25 AM 9:29 AM 10:01 AM 10:20 AM 11:09AM 11:41 AM 11:49 AM 12:00 PM 12:50 PM 12:53 AM 1:20 PM	11.4 cm/sec 6.7 cm/sec 6.8 cm/sec 13 cm/sec 10.8 cm/sec 6.6 cm/sec 9.7 cm/sec 8.83 cm/sec 13.4 cm/sec 6.7 cm/sec 6.7 cm/sec 16.1 cm/sec 7.02 cm/sec		