

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

**RENSELAER RIVERFRONT PARK**

**Rensselaer County, NY**

**RIVER MILE: 144.5**

*Salt Front: ~ RM 24*

**Poestenkill Elementary School & Delaware Community School-**

**120 students 4<sup>th</sup> grade and a total of 24 adults:**

**John Bishop and 3 other teachers, Poestenkill ES &**

**Willow Zielenski and 7 other teachers, Delaware Community School**

**Alene Onion, Sarah Rickard and 10 other NYS DEC Staff**

**2 Fish Biologist from Region 4**

**Latitude 42.642375 N & Longitude – 73.746393 W**



(photo shows dock and waterfront – by Michael Clark on Google maps)

**Location:** Rensselaer Riverfront Park, Rensselaer County, NY

**Area:** East side of the Dunn Memorial Bridge, 1.5 acre grassy park with walking esplanade, a few trees, fishing dock

**Surrounding Land Use:** Parkland (1.5 acre), Industrial/commercial, urban residential

**Sampling Site:** Off of the dock and waterfront

**Shoreline:** Sections with banks altered, sections left more natural

**Sample Timeframe 10:00 AM – 1:00 PM**

<i><b>ITEM</b></i>	<i><b>Time</b></i>	<i><b>Reading</b></i>		<i><b>Comments</b></i>
<i><b>Physical</b></i>				
<i><b>Air Temperature</b></i>	10:00 AM – 1:00 PM	13 °C 15.2 °C 15.5 °C	55.4 °F 59.36 °F 59.9 °F	Temperature at 4.6 meters
<i><b>Wind Speed: Beaufort Force</b></i>	10:30 AM 11:00 AM 11:30 AM 12:00 PM 12:30 PM	4-7 mph - - 4-7 mph 4-7 mph	Beaufort: #2	Southeast Southeast - Southeast Southeast
<i><b>Water Temperature</b></i>	10:00 AM – 1:00 PM	14.43 °C 14.4 °C 14.43 °C 14.50 °C 14.54 °C	57.97 °F 57.92 °F 57.97 °F 58.1 °F 14.54 °F	

<b>Turbidity - secchi disk</b>	10:00 AM-1:00 PM	180 cm, 190 cm, 230 cm, 180 cm		Avg: 195 cm
<b>Chemical</b>				
<b>Salinity- Low Range Quantabs</b>	10:00 AM – 1:00 PM	<1.4 quantab units	<32 ppm Cl <sup>-</sup>	Below Detection for this instrument
<b>DO –</b>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>Specific conductivity</i>
	10:00 AM – 1:00 PM	14.43 °C 14.4 °C 14.43 °C 14.50 °C 14.54 °C	8.29 - 8.36 8.45 8.37	210.9 - 213.9 216.0 217.3
<b>pH –</b>	10:00 AM – 1:00 PM	7.47, 7.63, 7.81, 7.68		
<b>Fish</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	
<b>Fish Totals</b>	<b>TOTAL:</b>	<b>Diversity:</b>		
<b>Macroinvertebrates</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	
<b>Overall assessment of water quality using macro community is GOOD!</b>	2 2 1 1 1	Mayfly Riffle Beetle Damsel fly Dragonfly Worm	High Quality High Quality Moderate Moderate Low Quality	Pollution Intolerant Pollution Intolerant Moderately Tolerant Moderately Tolerant Pollution Tolerant
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 7</b>	<b>Diversity: 5</b>		
<b>Tides-</b>	<b>Time</b>	<b>Rising, Falling, Unchanged</b>	<b>Height (cm)</b>	<b>Rate of Tidal Change (cm/min)</b>
	10:30 AM 11:00 AM 11:30 AM 12:00 PM 12:30 PM	- - Rising Rising Falling	360 - 390 450 390	- - .5 2 2
<b>Current-</b>	<b>cm/second</b>	<b>Knots</b>	<b>North/South</b>	<b>Ebb/Flood/Still</b>
	25 28 19.5 18.7	0.49 0.54 0.38 0.36	South South South South	Ebb Ebb Ebb Ebb
<b>Boat Traffic Totals</b>	<b>Name</b>	<b>Color</b>	<b>North or South</b>	<b>Loaded or Light</b>
5 Boats Total				