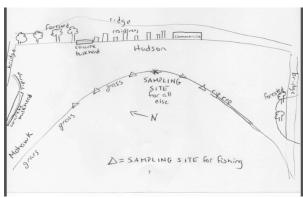
## Day in the Life of the Hudson River 10/20/16 Data (Saltfront ~ RM 83) (Above the Troy Dam and the Head of Tide)

(Above the Troy Dam and the Head of Tide) RIVER MILE 154

Peebles Island State Park, Waterford, NY
Becky Zimmerman, Angela Jones and Raquel Santiago-Parker
Pine Hills Elementary School
64 students – 4<sup>th</sup> grade, 11 adults total
42°47.051'N and 73°40.706 W







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 – sampled by the pavilion area **Surrounding Land Use:** 75% grassy, 25% riprap

Sampling Site: Park area

Shoreline: riprap Plants in area: none

Water depth: 12 - 36 inches

River Bottom description: muddy

	Time	Reading 1	Reading 2	Comments
Physical				
Air Temperature	10:27 AM	60°F	15.6°C	
	12:50 PM	58°F	14.4°C	
Wind Speed	10:27 AM	Beaufort 1	Anenometer	0.9 m/s
	11:16 AM	Beaufort 1	kts.	1.6 m/s
	11:54 AM	Beaufort 2		3.0 m/s
	12:50 PM	Beaufort 3		3.6 m/s
Cloud Cover	Started as	Then	Then began	
	mostly	became	to rain	
	cloudy	overcast	steadily	

Weather today	Steady rain			
Weather recently	No rain, warm	l		
Water surface	Calm			
Water Temperature	10:27 AM 11:16 AM 11:54 PM	16°C 16 16	60°F 60 60	
	12:50 PM	16	60	
Turbidity – long site tube averages & standard deviation	10:27 AM - 12:50 PM	Completely clear – no reading possible		
Chemical	Time	Water Temp	ppm	saturation
DO - Lamotte Earth Force Low test water monitoring kit	10:27 AM – 12:50 PM	16 C	2.7 ppm	26 % sat.
pH – indicator solution	12:27 PM	7 7 8.8		Average 7.5
Fish Catch – 10 ft. net	Number	Species	Size largest	
10ft - 1 cm mesh- 10m pull	75	Banded killifish	96 mm	
10:27 AM -12:50 PM	122	Spottail shiner	62 mm	
	5	Darter	45 mm	
	DIV 3	TOTAL	202	
Water Level	Time	Height	Change	Change Rate
This is above the	10:27AM	22.5 cm		
head of tide. Water level changes have	11:16 AM	20 cm	Falling	0.05 cm/min
to do with releases that occur from	11:54 AM	15 cm	Falling	0.13 cm/min
hydro plant that empties into the river below Cohoes Falls.	1250 PM	13.8 cm	Falling	-0.02 cm/min
Water Flow Velocity	Time	Rate of flow	All flow is South	
This is not a tidal current just flow. At	10:27 AM	10.2 cm/sec		
the confluence of	11:16 AM	1.6 cm/sec		

two waterways the	11:54 AM	3.4 cm/sec		
water direction can	12:50 PM	4.2 cm/sec		
change.				
Boat Traffic	1:09 PM	BARGE	North	Empty (C)
	10:37 AM		South	Recreational
Other	hawks	Seagulls	Sandpiper	ducks