

Day in the Life of the Hudson River 10/13/22
Peebles Island State Park
RIVER MILE: 154
Salt Front: ~ RM76
Berkshire Waldorf High School– Elizabeth Orenstein
11 students & 2 adults
Latitude 42.78°N & Longitude – 73.68°W

Location: Peebles Island State Park, the confluence of the Hudson River and the Mohawk River, Waterford NY
Area: A large grassy riverside park with many trees surrounding an open pavilion with picnic tables inside and an overlook that has 180° view of the Hudson River

Sampling Site: Forested, grassy, covered in vegetation, parking lot. A beach with altered banks that have stairs to the water.

Surrounding Land Uses: 55% Urban/Residential; 20% Forested; 5% Industrial/Commercial; 10% Beach; 10% Roadways and Bridges

Shoreline: 10% Sandy, 80% Muddy, 10% Rocky

River Bottom: Muddy, rocky, weedy

Water: NR

Plants in the Water: NR

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature-</i>	11:20 AM	20°C	68°F	
<i>Wind Speed:</i>	11:20 AM	<i>Anemometer</i> 13 mph	<i>Beaufort</i> 4	<i>Direction</i> SE
<i>Weather today</i>	11:20 AM	>75% cloud cover	No Rain	
<i>Weather the past 3 days:</i>	Rain, cold, 60°F			
<i>Tides- NOT APPLY</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Water Height (cm)</i>	
<i>Current- NR</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i> <i>Ebb/Flood/Still</i>
<i>Water Temperature-</i>	10:43 AM	16°C	60.8°F	
<i>Turbidity- long site tube</i>	12:00 PM	35 cm		
<i>Chemical</i>				
<i>Salinity-LR Quantabs</i>	10:27 AM	1.8 quantab units		Expect Road salt
<i>Standardized Salinity – NR</i>				
<i>DO – Hach Drop Count Kit</i>	<i>Time</i> 1:06 PM	<i>Temp</i> 16°C	<i>ppm DO</i> 10 ppm	<i>% saturation</i> NR
<i>pH – Color Match Kit</i>	10:57 AM	7.5		
<i>Nitrates- NR</i>				
<i>Phosphates- NR</i>				
<i>Alkalinity- NR</i>				
<i>Biological-</i>				
<i>Fish – Seine</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>
<i>10:00 AM-12:00 PM – 20 seines</i>	8	Herring sp. (YOY)	8 cm	
	85	Spottail Shiner		
	12	Pickerel		
	2	White Perch		
	1	Smallmouth Bass		

	1 1 55	Largemouth Bass Black Crappie Darter spp.			
Fish Totals	TOTAL: 165	Diversity: 8			
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
Macroinvertebrate Totals	TOTAL: 0	Diversity:0			
<i>Sediment Core –</i>					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
NR	Yes	Yes	No	Abundant: clay Common: mud Rare: sand, pebbles	Abundant: leaves, living vegetation Common: macroinvertebrates Rare: wood, shells, brick
<i>Boats- NR</i>					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial					
Recreational					