

Day in the Life of the Hudson River 10/22/19
SEEGER RIVERFRONT PARK, BEACON
RIVER MILE: 61.2

Salt Front: ~ RM 53

Valley Central Middle School- Will Gunther, Nancy Fabrizio, Jen Comfort
75 students 7-8th grade, 12 adults

Latitude 41.507975 N & Longitude – 73.986708 W

Location: Pete and Toshi Seeger Riverfront Park, Beacon, Dutchess County, NY

Area: The park at the end of Red Flynn Drive (past long dock park) near the Beacon train station; caught fish in the cove at the end of the park; grassy lawns, forested around edges parking lot to the side. Children play area, large riprap.

Surrounding Land Use: 90% Urban/Residential (parkland); 10% Forested

Sampling Site: beach, covered vegetation, banks altered, riprap

Shoreline: bridge, train station, covered vegetation (trees), concrete debris, dock, riprap

Water: <1m, choppy

River Bottom: Rocky then muddy

Plants in water: no plants in water area

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature</i>	9:16 AM	56 ° F	13.3 ° C	
	9:40 AM	56 ° F	13.3 ° C	
	10:40 AM	62 ° F	16.7 ° C	
	11:05 AM	63 ° F	17.2 ° C	
	12:10 PM	58 ° F	14.4 ° C	
<i>Wind Speed:</i>	9:16 AM	2 knots	West	
	9:40 AM	4.6 knots	Northwest	
	10:40 AM	2 knots	Northeast	
	11:05 AM	2 knots	Northeast	
	12:10 PM	2 knots	Northeast	
<i>Weather today</i>	Mostly cloudy			
<i>Weather past 3 days:</i>	NR			
<i>Tides- tide stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Water Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>
	9:10 AM	NA	60	NA
	9:40 AM	Falling	50	0.33
	10:37 AM	Falling	33	0.29
	10:59 AM	Falling	26	0.32
	11:26 AM	Falling	21	0.19
	11:54 AM	Falling	15	0.21
<i>Current-</i>	<i>Time</i>	<i>cm/second, Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
There is a large rock outcropping that extends further than our students could throw the orange	9:15 AM	1.7 cm/s, 0.03 knots	South	Ebb
	9:45 AM	1.6 cm/s, 0.03 knots	South	Ebb
	10:40 AM	2.6 cm/s, 0.05 knots	South	Ebb
	11:32 AM	1.85 cm/s, 0.04 knots	South	Ebb
	12:01 PM	1.5 cm/s, 0.03 knots	South	Ebb
<i>Water Temperature-</i>	9:40 AM	13 ° C, 13.2 ° C, 13 ° C,		Avg: 13.1 ° C
	9:58 AM	14.3 ° C, 14.2 ° C, 14.2 ° C,		Avg: 14.2 ° C
	10:20 AM	14.4 ° C, 14.5 ° C, 14.4 ° C,		Avg: 14.4 ° C
	10:50 AM	14.4 ° C, 14.4 ° C, 14.4 ° C,		Avg: 14.4 ° C
	11:34 AM	14.2 ° C, 14 ° C, 14 ° C,		Avg: 14.1 ° C
	12:12 PM	14.5 ° C, 14.5 ° C, 14.5 ° C,		Avg: 14.5 ° C
<i>Turbidity- long sight</i>	10:50 AM	36.4cm, 40.3 cm, 34.8 cm,		Avg: 37.2 cm

<i>tube</i>				
<i>Chemical</i>				
<i>Salinity- Quantabs</i>	9:58 AM	56 ppm Cl-	101.17 ppm total sal.	
<i>DO – drop count</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	9:58 AM	14.3 °C	13	121 %
<i>pH – meter</i>	11:16 AM	7.94, 8.2, 7.61, 7.92		
<i>Biological</i>				
<i>Fish</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Notes</i>
	6	Banded Killifish		
	1	White Perch		
	6	Striped Bass		
Fish Totals	TOTAL: 13	Diversity: 3		
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
	3	Blue Crab	3 cm	
Macroinvertebrate Totals	TOTAL: 3	Diversity: 1		
<i>Sediment Core</i>	<i>Time</i>	<i>Oxid Top</i>	<i>Grain Size</i>	<i>Other Features</i>
	NR			
Boats	Time	Name/Color	North/South	Loaded/Light
	NR			
Observations	NR			