

**Day in the Life of the Hudson River 10/16/18 Data**  
**SEEGER RIVERFRONT PARK, BEACON, RIVER MILE: 61.2**

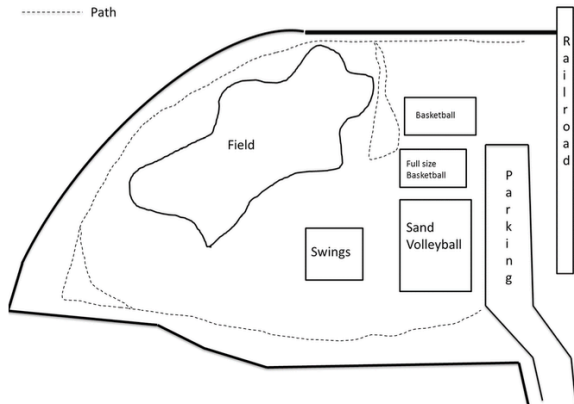
*Salt Front: ~RM 24*

**Valley Central Middle School- Will Gunther, Nancy Fabrizio, Nancy Rypkema**

**75 students 7<sup>th</sup>-8<sup>th</sup> grade, 12 adults**

**Latitude 41.507975 N & Longitude – 73.986708 W**

N<sup>o</sup>  
 Current, tide stick, turbidity were measured on the eastern most point.  
 Seining was conducted on the north end of the park next to the railroad  
 Water chemistry was measured on the south end of the park.



**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:** 100% Urban/Residential (Parkland)

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

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

**Plants in area:** no plants in water area

**Water:** <1 m, choppy

**River Bottom:** Rocky then muddy

<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>Air Temperature:</i>	9:29 AM	11.2 ° C	53 ° F	
	10:20 AM	12 ° C	54 ° F	
	10:45 AM	13 ° C	56 ° F	
	11:09 AM	13 ° C	56 ° F	
	11:36 AM	13.6 ° C	56.6 ° F	
	12:02 PM	15.8 ° C	59 ° F	
	12:30 PM	16.7 ° C	63.4 ° F	
<i>Wind Speed:</i>	9:29 AM	16 knots	West	Gusts up to 30 knots
	10:20 AM	21 knots	Northwest	
	10:45 AM	17 knots	Northeast	
	11:09 AM	18 knots	Northeast	
	11:36 AM	17 knots	Northeast	
	12:02 PM	29 knots	Northeast	
	12:30 PM	18 knots	Northwest	
<i>Weather Today:</i>	No rain, partly cloudy			
<i>Weather Previous:</i>	Rain on Monday, consistently in the mid 50's. The week prior temperature were in the 80's on Tuesday and Wednesday			
<i>Water Temperature</i>	9:45 AM	9 ° C		
	10:15 AM	10 ° C		
	10:30 AM	10 ° C		
	11:15 AM	10 ° C		
	12:01 PM	10 ° C		
	12:30 PM	10 ° C		
<i>Turbidity- long sight tube</i>	12:00 PM	24 cm 28 cm 26 cm	Avg: 26 cm	
<i><b>Chemical</b></i>				
<i>Salinity- low range quantabs</i>	9:35 AM	53 ppm, 55 ppm, 56 ppm	Avg: 55 ppm	

<i>DO – drop count test kits</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	10:15 AM	10 °C	11	95
<i>pH- meter</i>	11:45 AM	7.5, .7, 7.6	Avg: 7.6	
<b><i>Fish – seine</i></b>	<b><i>Number</i></b>	<b><i>Name</i></b>	<b><i>Length of longest</i></b>	
	3	Spottail Shiner	9 cm	
	3	Bay Anchovy	8 cm	
	7	American Shad	8 cm	
	13	Banded Killifish	9 cm	
	1	White Perch	7 cm	
	6	Striped Bass	7 cm	
	3	Yellow Perch	6 cm	
	3	Tessellated Darter	6 cm	
	2	Mummichog	7 cm	
	<b>TOTAL: 41</b>	<b>Diversity: 9</b>		
<b><i>Macroinvertebrates- Seine</i></b>	<b><i>Number</i></b>	<b><i>Name</i></b>	<b><i>Length of longest</i></b>	
	3	Lady Crab	3 cm	
	<b>TOTAL: 3</b>	<b>Diversity: 1</b>		
<b><i>Tides-</i></b>	<b><i>Time</i></b>	<b><i>Rising, Falling, Still</i></b>	<b><i>Height (cm)</i></b>	<b><i>Rate of Tidal Change (cm/min)</i></b>
	9:47 AM	Still	2	0
	9:53 AM	Still	2	0
	10:15 AM	Still	2	0
	10:44 AM	Still	2	0
	11:12 AM	Still	2	0
	11:36 AM	Still	2	0
	11:59 AM	Still	2	0
	12:27 PM	Falling	0	0.07
<b><i>Currents Flow</i></b>	<b><i>Cm/second</i></b>	<b><i>Comment</i></b>		
	NA	There was significant westerly wind blowing perpendicular to the river at our site this year. The flow of the surface water was mainly influenced by the wind and the orange would just come back to shore. We still attempted this all day, but the results were the same.		