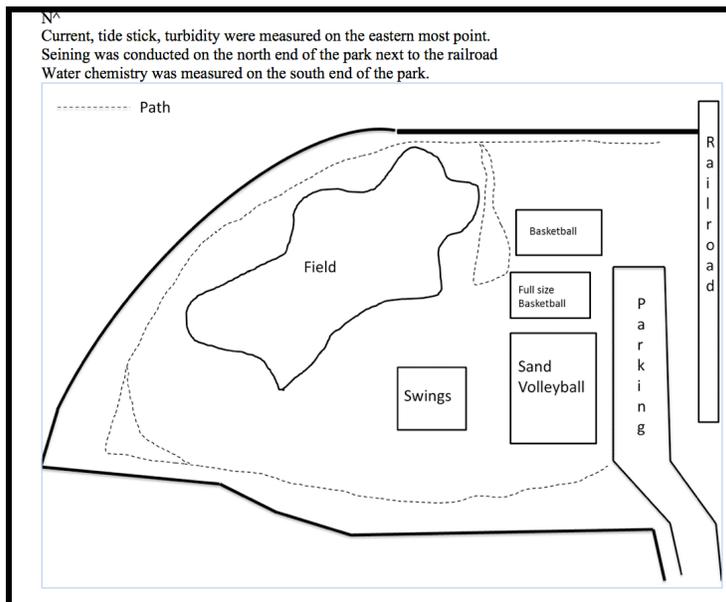


**Day in the Life of the Hudson River 10/12/17 Data  
(Salt Front ~ RM 65)  
RIVER MILE 61.2**

**Beacon Landing Park, City of Beacon, Dutchess County  
Will Gunther, Nancy Fabrizio, Nancy Rypkema - Valley Central Middle School,  
7<sup>th</sup> & 8<sup>th</sup> graders (95 students and 12 adults)  
Latitude 41.507975, Longitude -73.986708**



Location: Beacon Landing Waterfront Park, Beacon, Dutchess County NY  
 Area: The park at the end of Red Flynn Drive (past long dock park) near the Beacon train station – center at the park with stations all around it and fish in the cove at the end of the park - grassy lawns, forested around edges, parking lot to the side. Children’s play area, large riprap  
 Surrounding Land Use: Urban/residential 100% (Parkland)  
 Shoreline: A bridge, train station, covered in vegetation trees, concrete debris, dock  
 Sampling Site: beach, covered in vegetation, banks altered, rip rap  
 Plants in the water: no plants in the water  
 Water depth: <1 m  
 Bottom Surface: muddy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:50 AM	14.2°C	58°F	
	10:09 AM	15	58.6	
	10:41 AM	15.4	59.7	
	11:00 AM	16.4	61.4	
	11:20 AM	17.8	64	
	11:42 AM	17	62.9	
	12:09 PM	18.2	64	
	12:42 PM	17	63.3	
Wind Speed	Beaufort	#2	5 kts	
Cloud Cover	Partly	26-50%		

	Cloudy			
Weather today	No rain			
Weather recently	Rain on Monday, Warmer Tuesday and Wed. mid 70s,			
<i>Water Surface</i>	Choppy			
<i>Water Temperature</i>	Time	Degrees °C		Average
	9:46 AM 10:15 AM 10:40 AM 12:16 PM	10°C 12 12 14	X3 X3 12,13,12 X3	10°C average 12 12.7 14
<i>Turbidity-long sight tube</i>	12:00 PM	43 cm 45 35		41 cm average
<i>Chemical</i>	<i>Time</i>	<i>DO</i>	<i>Temp</i>	<i>% saturation</i>
DO (drop kit)	9:46 AM	9 ppm	10°C	80%
pH – litmus paper	11:51 AM	6 7 7		6.7 average
<i>Salinity – QTs- HR</i>	<i>Time</i>	<i>Chloride reading Cl-</i>		<i>Total Salinity conversion</i>
	12:30 PM	546 ppm 598 ppm 654 ppm		986 ppm TS 1080 ppm 1181 ppm
<i>Fish Catch seine 8X4feet</i>	<i>Number Caught</i>	<i>Species</i>	<i>Length</i>	
4X6 ft. pull	10	Shiner	7.5 cm	
	3	Striped Bass	12.7 cm	
	2	Sunfish	8.0 cm	
	1	Bluefish	20.5 cm	
<b>DIV</b>	<b>4</b>	<b>TOTAL</b>	<b>16</b>	
<i>Macroinvert</i>	NONE			
Sed. Core	NR			
<i>Tides</i>	<i>Time</i>	<i>Tide Stick</i>	<i>Flood/Ebb Still</i>	<i>Rate of change – cm/min</i>
	10:01 AM 10:12 AM 10:38 AM 10:54 AM 11:23 AM 11:45 AM 12:09 PM	30 cm 30 cm 28 cm 25 cm 25 cm 23 cm 20 cm	Falling Unchanged Falling Falling Unchanged Falling Falling	NA 0 0.125 0.125 0 0.08 0.125

<i>Currents</i>	<i>Time</i>	<i>Cm/30 secs</i>	<i>Cm/sec</i>	<i>knots</i>	<i>Ebb Flood</i>
	10:55 AM	152	2.5	0.05	
	11:45 AM	216	3.6	0.07	
	12:35 PM	162	2.7	0.05	

There is a 15' rock outcropping. We attempted to measure the current in the main channel of the Hudson beyond the outcrop.