

**Day in the Life of the Hudson River 10/20/15 Data**  
**RIVER MILE 61E**  
**Riverfront Park, City of Beacon, Dutchess County**  
**Scenic Hudson**  
**Leah Horn, Haldane Middle School, 7<sup>h</sup> grade (30), 5 adults**  
**Latitude 41°30' Longitude 73°55'**

**Location:** Long Dock Park, Beacon, Dutchess County NY

**Area:** Long Dock Park - A former brownfield now public park used for fishing, launching kayaks, picnics, fieldtrips, enjoying scenic views of the Hudson River, Hudson Highlands and Hudson Valley. Most of the shoreline on the south side is lined with trees.

**Surrounding Land Use:** 25% forest, 15% beach, 60% other

**Sampling Site:** beach area rocky with lots of sand, water chestnut and grass

**Plants in water:** water chestnut

**Bottom Surface:** muddy, rocky bottom

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:05AM 10:30AM 1:00 PM 1:30 PM	14°C 14 16 20		
Wind Speed	10:05AM 10:30AM 1:00 PM 1:30 PM	Beaufort#3 Beaufort#2 Beaufort#3 Beaufort#4		Partly cloudy Partly cloudy Partly cloudy Partly cloudy
Cloud Cover	overcast			
Weather today	Some light rain throughout the day			
Weather recently	Cool and fall like – rain off and on			
<i>water</i>	Choppy, rough and cold			
<i>Water Temperature</i>	<b>Time</b>	<b>Test one</b>		
	9:40AM 10:20 AM 11:40 AM 12:24 PM	15°C 15.6 16 16.3		
<i>Turbidity</i>	<b>Time</b>	<b>NTU</b>	<b>cm</b>	
<i>long site tube converted NTU to cm</i>	9:40AM 10:20 AM 11:40 AM 12:24 PM	20 14 19 50	33 cm 42 cm 35 cm 15 cm	
<i>Chemical</i>	<b>Time</b>	<b>DO</b>	<b>Temp</b>	<b>Saturation</b>
DO (drop kit)	10:05AM 10:30AM	8 ppm 12 ppm	15°C 17	80% 120%

	1:00 PM 1:30 PM	10 ppm 11 ppm	15 15	98% 110%
pH – <i>color match(Hach)</i>	10:05AM 10:30AM 1:00 PM 1:30 PM	7.4 7.2 7.5 7.5		
Salinity – Quantab LR	10:05AM 10:30AM 1:00 PM 1:30 PM	158 ppm Chl- 162 176 76	285 TS 293 318 137	TS = Total Salinity  (falling tide)
<b><i>Fish Catch seine 30 feet</i></b>	<b><i>Number Caught</i></b>	<b><i>Species</i></b>	<b><i>Size of largest</i></b>	
	2	Striped Bass		<b>Diversity -10</b>
	1	American Eel	30 cm	<b>Total Catch - 79</b>
	1	Blueback Herring	9.5 cm	
	3	Spottail Shiner	12 cm	
	11	White Perch	14 cm	
	1	Banded Killifish	11 cm	
	3	Pumpkinseed	18 cm	
	25	Bay Anchovy	10 cm	
	2	Atlantic Siversides	9 cm	
	30	Herring		
<b><i>Tides</i></b>	10:05AM 10:30AM 1:00 PM 1:30 PM	12 inches 8 inches 7 inches 5 inches*	<b>Falling the whole time of sampling</b>	
<b><i>Currents –</i></b>	10:05AM 10:30AM 1:00 PM 1:30 PM	0.2 ft/sec  0.4 ft./sec still	6 cm/sec  12 cm/sec	
<b><i>Sediment Core</i></b>	<b><i>Length - describe</i></b>	<b><i>Rare</i></b>	<b><i>Common</i></b>	<b><i>Abundant</i></b>
<b><i>Shipping</i></b>				