

Day in the Life of the Hudson River 10/20/15 Data
RIVER MILE 61.1 E
Beacon Landing Park, City of Beacon, Dutchess County
Nancy Rypkema and total of 16 adults/teachers - Valley Central Middle School,
7th & 8th graders (85 students and 10 adults)
Latitude 41°30' 22" N - Longitude 73°59' 07" W

Location: Beacon Landing Waterfront Park, Beacon, Dutchess County NY
Area: Park area 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
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 except water chestnut
Water depth: <1 m
Bottom Surface: sandy, silty

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:25 AM	13°C	54.7°F	
Wind Speed	Beaufort	#1-3	SE	
Cloud Cover	26-50%			
Weather today	No rain			
Weather recently	Cold, cloudy, windy			
<i>Water Surface</i>	Calm			
<i>Water Temperature</i>	Time	Degrees °C		
	9:35 AM	15°C	59°F	
	10:12 AM	15.6	60	
	10:45 AM	15.6	60	
	11:40 AM	16.1	61	
<i>Turbidity-long sight tube</i>	9:48 AM	31 cm 37 31.7		Average 33.2 cm
<i>Long sight tube</i>	10:39 AM	35 cm 28 cm 31 cm		32 cm
<i>Chlorophyll</i>	10:50 AM	1.0		
<i>Chemical</i>	<i>Time</i>	<i>DO</i>	<i>Temp</i>	<i>% saturation</i>
DO (drop kit)	10:00 AM	10 ppm	15.6°C	100%

pH – meter	11:20 AM	8.76 8.95 8.72		Probe Average 8.81	
Nitrates	11:30 AM	20 ppm X 3	??		
Salinity – QTs- Time	Quantab reading	Quantab Average	Chloride reading	Total Salinity conversion	
11:00 AM	5.6 ppt 4.2 4.2		4.3 ppm Cl-	777 ppm T.S.	
Fish Catch seine 8X4feet	Number Caught	Species	Length	DIV 3 Total 34	
20 ft. pull 20 seines	30	Spottail shiner	7 cm		
	3	Banded Killifish	7 cm		
	1	American Eel	13 cm		
Sediment Core	NR				
Tides	Time	Tide Stick	Flood/Ebb Still	Rate of change	
	9:48 AM 9:56 AM 10:03 AM 10:17 AM 10:34 AM 10:49 Am	12 cm 11 cm 11 cm 10 cm 6.5 cm 0	Start Falling Unchanged Falling Falling Falling	At 10:49 AM it had reached the bottom of the stick	
Currents	Time	Cm/30 secs	Cm/sec	knots	Ebb Flood
	9:48 AM 10:05 AM 10:30 AM 11:00 AM	106 80 206 137.16	3.53 2.67 6.85 4.07	0.069 0.05 0.13 0.08	N – F N – F N- F N- F
	11:20 AM	100	1.6	0.3	Flood
	11:50 AM	100	1.6	0.3	Flood
Shipping	Insufficient information				