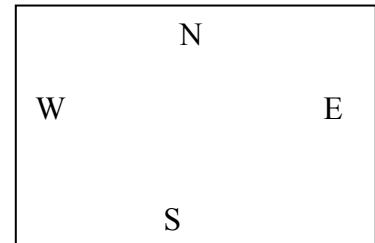


**Day in the Life of the Hudson River 10/20/16 Data**  
**(Saltfront ~ RM 83)**  
**RIVER MILE 76W**  
**Bob Shepard Highland Landing Park, Highland, Dutchess County**  
**Kevin Rizzo, Highland, 30 students, 8th grade Living Environment, 3 adults**  
**41.715758° - 73.948°**



**Location:** Bob Shepard Highland Landing Park, Highland, New York.  
**Area:** New park, pier, grassy, parking lot. Park used for fishing, boating  
**Surrounding Land Use:** 20 % commercial/industrial; 40% urban/residential; 30% forested; 10% beach  
**Sampling Site:** shoreline is riprap, banks altered, concrete bulkhead, wood bulkhead, banks altered, broken concrete and docking debris, construction debris, some brick on shoreline.  
**Plants in area:** ~20% plants in water – water chestnut  
**Water depth:** 2 ft. to 50 ft.  
**River Bottom** –rocky, muddy

**Sampled 9:00 AM to 1:00 PM**

<i>ITEM</i>	<i>Time</i>	<i>Farenheit</i>	<i>Celcius</i>	<i>Comments</i>
<b><i>Physical</i></b>				
Air Temperature	9:30 AM 10:30 AM 1:00 PM	55 °F 65 °F 69 °F	13°C 18°C 20.6°C	
Wind Speed	NR			
Cloud Cover	9:30 AM	26-50% partly cludy	<i>Water condition</i>	Choppy
Weather today	No rain today			
Weather last 3 days	Warm and dry			

<b><i>Water Temp.</i></b>	10:30 AM 11:30 AM 12:30 PM	64°F 64 64	18°C 18 18	
<b><i>Turbidity – Secchi disc</i></b>	12:30 PM	97 cm 62 cm		
<b><i>Long sight tube</i></b>	12:30 PM	92 cm		
<b><i>Chemical</i></b>				
DO - meter	11:30 AM	18°C		>50%
pH – litmus paper & pH pen	9:30 AM 10:30 AM 11:30 AM 12:30 PM	7 8 8 9		
Salinity -	NR			
<b><i>Fish Catch – 20 feet net</i></b>	<b><i>Number Caught</i></b>	<b><i>Species</i></b>	<b><i>Largest</i></b>	
<b><i>Fish</i></b>	224	River Herring	NR	<b>Diversity 8 Total Catch 282</b>
	14	Blue back Herring	7.6 cm	
	1	Blue Gill Sunfish		
	3	Killifish	5 cm	
	33	Spottail shiner		
	2	Striped Bass	10 cm	
	1	White Perch	10 cm	
	3	Northern Kingfish		
<b><i>Macroinvert</i></b>	1	Blue Crab	Male	<b>Diversity 1 Total 1</b>
<b><i>Tides – Time</i></b>	<b><i>Falling/ Rising</i></b>	<b><i>Height in cm</i></b>	<b><i>Rate/change cm/min</i></b>	<b><i>Rate per min.</i></b>
9:50 AM 10:50 AM 11:10 AM 11:20 AM 11:30 AM 12:30 PM 12:55 PM	Still Falling Rising Rising Rising Rising	-20 cm -20 cm -10 cm +4 cm -+10 cm +20 cm +26 cm		

<i>Currents</i>	<i>Time</i>	<i>Cm/30sec</i>	<i>Still/ebb/flood</i>	<i>Comment</i>
	10:09 AM 10:30 AM 11:30 AM	320 cm	still ebb flood	10cm/sec
<i>Sediment Core</i>	<i>Description</i>	<i>Common</i>	<i>Abundant</i>	
	15.25 cm	Clay Mud Oyster Shells Freshwater Mussels Zebra mussels Brick bits		
<i>Ship Traffic – Commercial</i>	1:09 PM	UBC	White/red/yellow	Southbound
<i>Ship Traffic - Recreational</i>	10:31 AM 11:04 AM 12:25 PM 12:40 PM	Sailboat NY593M4 Coast Guard NY54391X	White/Maroon White/blue Black/White Shite/Blue	South – light North – light South – light South - light
<i>Other Observations</i>	Chestnut seeds, birds – seagulls, squirrel			