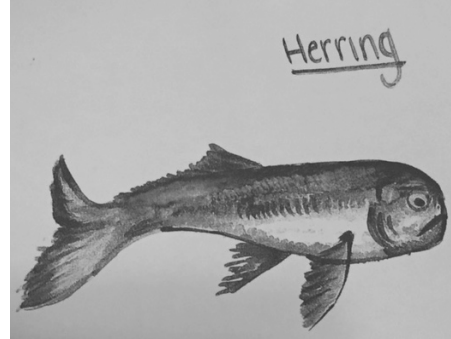
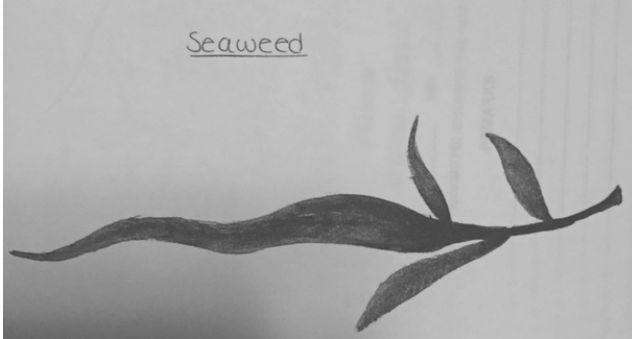


**Day in the Life of the Hudson River 10/20/16 Data**  
**(Saltfront ~ RM 83)**  
**RIVER MILE 37 – Bowline Park, Haverstraw Waterfront**  
**Chuck Barone, Nanuet High School – 30 students, 12<sup>th</sup> grade APES and NAPES**  
**2 adults**  
**41.° 12'8" N 73.° 57' 33" W**



**Location:** Bowline Park, Haverstraw waterfront, Rockland County NY

**Area:** Parking lot, recreation, fishing

**Surrounding Land Use:** 10% beach, 75% Industrial/commercial, 15% urban/residential

**Sampling Site:** shoreline is sandy, rocky, small beach, bank altered, large rip rap, bulkhead, industrial tress spans the water to the north and east, bricks in the sand

**Other Notes:** The beach has a distinctive marker showing the high tide line or more commonly referred to as the 'rack line' where natural and man made debris line up

**Plants in area:** 50% algae, 50% seaweed/moss

**Water depth:**

**River Bottom** – sandy, squishy, mucky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	8:30 AM	20.1°C	69.2°F	
	9:30 AM	19.3	66.7°F	
Wind Speed	8:30 AM	4.7 mph 3.0 0	Maximum Average Minimum	North
	9:30 AM	2.3 mph 0 0	Maximum Average Minumum	North
Cloud Cover	Mostly cloudy			
Weather today	Mostly Cloudy	51-75%		
Weather last 3 days	unseasonably warm and dry			
<i>Water</i>	calm			

<b>Water Temp. avg depth 2.5 ft</b>	8:30 AM 9:30 AM	18,19, 21°C 19,22,22°C	62,66.70°F 56.8, 71, 71°F	19.3C & 66F 21 C & 70 F
<b>Turbidity – Long site tube</b>	8:30 AM 9:30 AM 10:30 AM 11:30 AM 12:30 PM	21,22,23 cm 35, 40, 36 42, 40, 36 40.8,39.2, 42.2 47.6,42.2, 44.4	<b>AVERAGES</b>	23 cm 37 cm 41.6 cm 41.46 cm 45.1 cm
<b>Chemical</b>				
DO <i>Drop count</i>	9:30 AM 8:30 AM 9:30 AM 10:30 AM 11:30 AM	10°C 7.5 ppm 7 5.5 6.7	8 ppm 19.3 C 21 C 20C 20.6 C	70 % sat. 80% 75% 60% 75%.
pH – litmus paper	8:30 AM 9:30 AM	5,4,5 4,4,4	<b>AVERAGES</b>	4.6 4
Salinity: <i>Hydrometer</i>	8:30 AM 9:30 AM 10:30 AM 11:30 AM	11, 10, 11 ppt 10, 10, 11 9,9,10 10, 10 11	<b>AVERAGE</b>	10.6 ppt 10.5 ppt 9.7 ppt 10.2 ppt
<b>Fish Catch - Seine 4 meters. Mesh 0.25 inch</b>	<b>Number Caught</b>	<b>Species</b>	<b>Length of largest</b>	
<b>Fish - Seine 1 8:30 AM</b>	2	Striped Bass	10.1 cm	<b>DIV 3 TOTALS 4</b>
	1	Atlantic Silverside	8.8 cm	
	1	Bay Anchovy	8.9 cm	
<b>Inverts</b>	1	Shrimp	NR	<b>DIV – 2</b>
	1	Crab	NR	<b>TOTALS 2</b>
<b>Seine 2 9:30 AM</b>	3	Atlantic Silverside	9 cm	<b>DIV – 3 TOTALS - 10</b>
	5	Striped Bass	20 cm	
	2	White Perch	16.1 cm	
<b>Seine 4</b>	3	Blue Fish	NR	<b>DIV 4</b>
<b>Noon</b>	3	Herring (sp)	NR	<b>TOTALS 10</b>
	3	Blue Herring	NR	
	1	Bay Anchovy	NR	
<b>Tides</b>	8:30 AM 9:30 AM 11:30 AM 12:45 PM	73 cm 85 cm 75 cm tide stick under H2O	Rising Rising Rising	0.2 cm/min 0.16 cm/min
<b>Currents</b>	<b>CM/30 secs</b>	<b>Cm/Sec</b>	<b>North/South Ebb/Flood/Still</b>	<b>Knots</b>
	106.67	3.56 cm/sec	South ebb	0.069

	109.36	3.65 cm/sec	North flood	0.071
	52	1.73 cm/sec	North flood	0.034
	110	3.67 cm/sec	North flood	0.07