

**Day in the Life of the Hudson River 10/20/15**  
**RIVER MILE 17**  
**Mt. St. Vincent College Campus, NYC**  
**Pat Grove – Mt. St. Vincent College – 3 adults**  
**Alexandra Romero, Palisades Prep in Yonkers, 34 students 10<sup>th</sup>-12<sup>th</sup> AP Bio &**  
**Sophomores in college**  
**Latitude 40° 54.799 N Longitude 73° 54.695 W**

**Location:** Waterfront of Mt. St. Vincent's College

**Area:** Forested, grassy

**Surrounding Land Use:** Beach 10%; Forested 20%, Academic Environment 70%

**Sampling Site:** Shoreline is 100% rocky –bulkhead, drainage pipes in area, beach area, covered in vegetation

**Plants in water of sampling area:** no plants in the water

**Plants in the area:** No plants in water area

**Water depth:** NR

**River Bottom –** muddy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	12:05 PM 12:21 PM 12:56 PM	64° F 61 64	17.8°C 16 17.8	
Wind Speed	12:23 PM	Beaufort #3	9.9 kts	SW
Cloud Cover	12:10 PM	Clear		
Weather today	No rain			
Weather recently	Cooler than average			
<i>Water Temperature – 35 cm</i>	12:30 PM	14.5°C 15	58.1°F 59	<b>AVG</b> 14.75°C 58.6 F
	12:45PM	14.5°C 14.5°C	58°F 58°F	14.5°C 58 F
	1:26 PM	15°C	59°F	15°C 59 F
<b>Water surface:</b>	choppy			
<i>Turbidity (Short Site Tube)- water in river was brown/green</i>	12:40 PM	60 JTU 60 JTU 60 JTU	60 JTU	Looked turbid from shore but a pail sample was very clear
<i>Chemical</i>				
DO LaMotte kit 7414	12:45 PM	7.8 mg/L	Temp 14.5° C	75% saturated

pH – LaMotte kit 5858	12:42 PM 1:00 PM 1:15 PM 1:37 PM	10 10 10 10	10 avg.	
Salinity - refractometer	12:34 PM 12:54 PM 1:10 PM 1:37 PM	10 ppt 10 10 10		
<b><i>Fish Catch</i></b>	<b><i>Number Caught</i></b>	<b><i>Species</i></b>	<b><i>Length</i></b>	
seine – 30 ft. net	4	Atlantic Silversides	12.7 cm	<b>Div 1 Totals 4</b>
<b><i>Tides</i></b>	12:39 PM 12:43 PM 12:53 PM 1:16 PM 1:38 PM	43.5 cm 41.3 cm 44.9 cm 61.2 cm 59.3 cm	Overall tide rose during sample period – small variance due to wave action	
<b><i>Currents</i></b>	12:15 PM	434cm/30 secs	14.5 cm/sec	0.3 kts - flood
	12:30 PM	323 cm/30 sec	10.7 cm/sec	0.2 kts - flood
	12:57 PM	323 cm/30 sec	10.7 cm/sec	0.2 kts - flood
<b><i>Core</i></b>	NR			
<b><i>Traffic – commercial</i></b>	1:19 PM	Tugboat & Barge	White/yellow	North/loaded
	1:16 PM	Tug & Barge		
	1:23 PM	Double Skin 307	Black/White/ Yellow	South/loaded
<b><i>Recreational</i></b>	12:41 PM	Speedboat	White	South/NA
	1:00 PM	Sailboat	White	South/NA
<b><i>Other observations</i></b>	Grassy area – some places overgrown	Storm water runoff from impervious surface	Nearby sewage treatment plant	Canada Geese, Brandt