

**Day in the Life of the Hudson River 10/20/16 Data**  
**RIVER MILE 58.1**  
**Plum Point/Kowawese, New Windsor, Orange County, NY**  
**Janet DeStefano & Krista Espinoza, Vails Gate School**  
**Jack Caldwell and Black Rock Forest**  
**24, 3rd grade students, 12 adults**  
**GPS Latitude 41.471 N Longitude -74.016 W**

**Location:** Northern Sandy beach at Plum Point, New Windsor, Orange County, Public Shore, Picnic Area

**Area:** Sandy beach bordered by forested area and parking lot. Used for picnic, fishing, kayaking

**Surrounding Land Use:** Forested 25%, Beach 75%,

**Sampling Shoreline:** 75% sandy, 25% rocky

**Sampling Site:** sandy beach (cove), rip rap in area of sampling site, debris in the area such as broken concrete, docking

**Plants in area:** none in sampling area

**Shoreline:** beach and then grass behind

**River Bottom** – sandy, rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<b>Physical</b>				
Air Temperature	9:36 AM	16°C	60°F	
	10:09 AM	16	60	
	10:39 AM	16	60	
	11:05 AM	17	62	
Wind Speed	10:00 AM	Beaufort #2		
Cloud Cover	Mostly cloudy	51-75%		
Weather today	No rain but very overcast by afternoon			
Weather recently	Warmer than normal and dry			
<b>Water Surface</b>	choppy			
<b>Water Temperature</b>	9:49 AM	19°C		
	10:26 AM	17 °C		
	10:52 AM	18		
	11:16 AM	18		
<b>Water Surface</b>	Choppy			
<b>Turbidity</b> <i>Long sight tube</i>	10:07 AM	13 cm	Average – 12 cm	
		11 cm		
<b>Chemical</b>				
DO (drop kit)	10:45AM	18°C	12	130% Sat
pH – indicator	9:20 AM	7.5		Average 7.5
	10:11AM	7.4		
	10:40 AM	7.6		
	11:05 AM	7.5		

Salinity – From Standardized	11:35 AM	HR quantab 5.8	1506 Cl-	2721 Total Salinity
<b><i>Fish Catch</i></b> 48" X20 ft. with ¼ inch mesh	<b><i>Species</i></b>	<b><i>Count</i></b>	<b><i>Size of largest</i></b>	<b><i>Totals</i></b>
<b>Fish</b> 12:30 PM	Bay Anchovy	2	5 cm	<b>DIV – 6</b>
*reported as Striped Killi	*Banded Killi	3	5 cm	<b>TOTAL - 13</b>
	American Shad	2	8 cm	
	Striped Bass	3	58 cm	
	Shiner	1	5 cm	
	Yellow Perch	2	10 cm	
<b><i>Tides</i></b>	<b><i>Time</i></b>	<b><i>Height in cm</i></b>	<b><i>Rate of change</i></b>	<b><i>Rising/falling</i></b>
	9:26 AM 10:04 AM 10:35 AM 11:02 AM	61 cm 66 cm 69 cm 79 cm	Start 1.7 cm/min 2.23 cm/min 2.93 cm/min	Start Rising Rising Rising
<b><i>Currents</i></b>	NR			
<b><i>Core</i></b>	<b><i>Time</i></b>	<b><i>Description</i></b>	<b><i>Common</i></b>	<b><i>Rare</i></b>
	NR			
<b><i>Shipping – commercial</i></b>	NR			
<b><i>Shipping – Recreational</i></b>	NR			
<b><i>Observations</i></b>	NR			