

Day in the Life of the Hudson River 10/20/15 Data
RIVER MILE 58b
Plum Point/Kowawese, New Windsor, Orange County, NY
Janet DeStefano, Vails Gate School
33, 3rd grade students, 7 adults
GPS Latitude 41°27'47.67"N Longitude 74°0'42.88"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 50%, Beach 50%,

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: pieces of brick, water chestnut seeds on beach, pieces of shells, full small zebra mussels

River Bottom – sandy, muddy, rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:07 AM 11:00 AM	14°C 16	56°F 60	
Wind Speed	10:00 AM	Beaufort #3	Anemometer 2.9m/s	South
Cloud Cover	26-50%			
Weather today	No rain			
Weather recently	Cold, heavy frost			
<i>Water Surface</i>	choppy			
<i>Water Temperature</i>	10:17 AM 11:00 AM	14°C 17 °C	58°F 62 °F	
<i>Water Surface</i>	Choppy			
<i>Turbidity</i> <i>Long sight tube</i>	10:40 AM	14 cm 16 cm 14 cm	Average – 15 cm	Water was sandy/muddy-water had clay on bottom
<i>Chemical</i>				
DO (drop kit)	10:20 AM 11:20 AM	14°C 17°C	6 10	58% Sat 100%
pH – indicator	10:40 AM 11:00 AM	6.7 6.6		
Salinity –	NR			
<i>Fish Catch</i> 35 ft. ‘ with ¼	<i>Species</i>	<i>Count</i>	<i>Size of largest</i>	<i>Totals</i>

inch mesh				
Fish 11:00 AM	Spottail Shiner	6	8cm	DIV – 7 TOTAL - 48
	White Perch	3	15 cm	
	Herring	20	8 cm	
	Bay Anchovy	12	5 cm	
	Striped Bass	2	15 cm	
	Banded Killi	4	8 cm	
	American eel - elver	1	13 cm	
Macroinvert	Blue Crab	2	Males	DIV – 1 TOTALS - 2
Tides	Time	Height in cm	Rate of change	Rising/falling
	NR			
Currents	10:50 AM			ebb
Core	Time	Description	Common	Rare
	11:50 AM	11.5 cm	Clay Sand	Mud Gravel
Shipping – commercial	9:30 AM 9:30 AM 9:45 AM 11:00 AM	Barge Tug boat Ferry Tug boat	Brown Blue White Blue	North North North - light North
Shipping – Recreational	11:00 AM 12:30 PM	Speedboat Sailboat	White White	South South - light
Observations	Eagle	caterpillar		