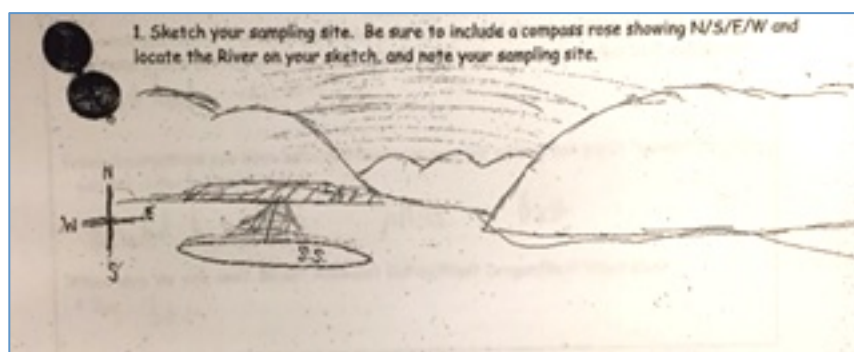


**Day in the Life of the Hudson River 10/20/15 Data**  
**RIVER MILE 58a**  
**Plum Point/Kowawese, New Windsor, Orange County, NY**  
**Rebecca Foster-Faith, Bishop Dunn Memorial,**  
**Jenny Brinker, Museum of the Hudson Highlands,**  
**30 seventh graders , 6 adults**  
**GPS Latitude 41°27'46.49"N Longitude 74°00'42.75"W**



**Location:** Southern Sandy beach at Kowawese, 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:** Beach 10%, Forested 50%, Urban/Industrial 30%  
**Shoreline:** 75% rocky, 20% muddy, 5% sandy  
**Sampling Site:** sandy beach (cove), rip rap in area of sampling site, debris in the area such as broken concrete, docking  
**Plants in area:** No plants in the water  
**Water depth:** sampling in 50 cm depth  
**River Bottom** – muddy, rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<b><i>Physical</i></b>				
Air Temperature	9:52 AM	12°C 52°F	10:38 AM	13°C 57°F
	11:53 AM	18°C 63°F		
Wind Speed	9:52 AM 10:19 AM 12:13 PM	Beaufort #4 Beaufort#3 Beaufort #3	2.9 mph	South South
Cloud Cover	Clear <25%			
Weather today	No rain			
Weather recently	Below freezing, snowed			
<b><i>Water Surface</i></b>	choppy			
<b><i>Water</i></b>	10:25 AM	14.5°C	11:45 AM	15°C

<b>Temperature</b>		58 °F		59 °F
<b>Water Surface</b>				
<b>Turbidity</b> <i>Short sight tube</i>	9:20 AM 10:09 AM 11:35 AM	60 X 3 60 & 80 JTU 80 JTU X 3	60 JTU Average 70 JTU Average Water was cloudier than expected	
<b>Chemical</b>				
DO	TIME	Temp	DO	% Sat
DO – drop count test kits	10:45 AM 10:50 AM 12:13 PM	14C 13 C 15 °C	8 10 11	75% 95% 110%
pH – colormetric	10:12 AM 11:37 AM	6 X 3 6 X 2		
Salinity – Quantab	10:29 AM 11:18 AM 12:00 PM	2.9 unites 1.8 units 1.9 units	91 ppm Cl- 51 ppm Cl- 53 ppm Cl-	164 ppm TS 92 ppm TS 96 ppm TS
<b>Fish Catch</b>	<b>Species</b>	<b>Count</b>	<b>Size of largest</b>	<b>Totals</b>
10:45 AM	Spottail Shiner	1		<b>DIVERSITY 7</b>
	White Perch	6		<b>TOTALS - 18</b>
	American Eel	1		
	Alewife	5		
	Striped Bass	3		
	*Glass fish ??	1		*Probably yoy
	*White fish ?	1		*white catfish?
<b>Tides</b>	11:40 PM 12:13 PM	2.54 0	falling	
<b>Currents</b>	10:26 AM 10:34 AM 11:53 AM	127 cm/30 sec 114.3 cm/30 sec 452.12cm/30 s	4.2 cm/sec 3.8 cm/sec 15.07 cm/s	North/Flood North/Flood 0.29 kts
<b>Shipping – Commercial</b>	9:19 AM 9:39 AM 10:40 AM	Barge Tug Barge	Grey & Red White/Blue Grey	Southbound/Loaded North/Loaded Southbound/Loaded
<b>Shipping Recreational</b>	10:41 AM 12:13 PM	Motorboat Motorboat	White White	NR Southbound light
<b>Observations</b>	Devil head chestnut, birds, human impact, lumps of coal			