

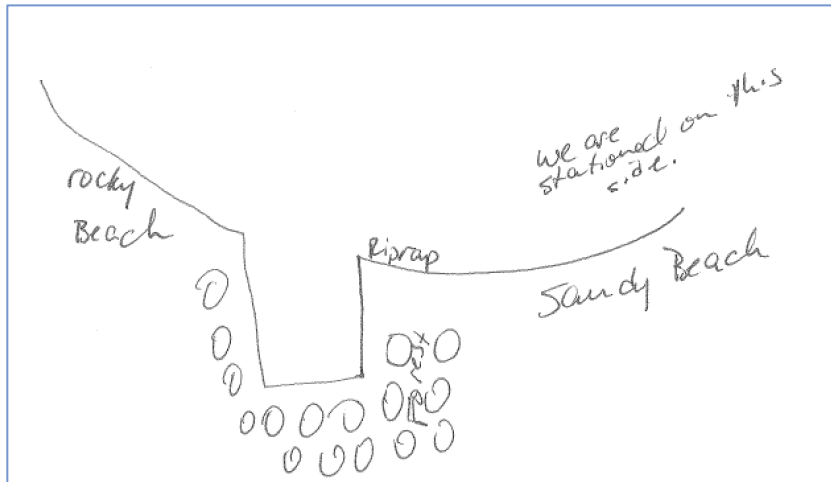
**Day in the Life of the Hudson River 10/20/16 Data
(Saltfront ~ RM 83)**

RIVER MILE 58

Plum Point/Kowawese, New Windsor, Orange County, NY

**Rebecca Foster-Faith, Bishop Dunn Memorial,
Jenny Brinker, Museum of the Hudson Highlands,
33 seventh graders , 3 adults**

GPS Latitude 41.463 Longitude -74.015



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 50%, Forested 50%

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 with forested piece behind

Plants in area: < 50%, type not recorded

Water depth: NR

River Bottom – sandy, rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:34 AM 10:27 AM 11:52 AM	16.2°C 20.6 16.7	61°F 69 62	
Wind Speed	9:52 AM 11:54 AM 12:30 PM	Beaufort #1 Beaufort #3 Beaufort #3	NR 8 mph 8.8 mph	North
Cloud Cover	Mostly cloudy	51%-75%	By 11:54AM overcast >75%	
Weather today	No rain			
Weather recently	Very warm – unusually so – 70 degrees plus			

Water Surface	choppy				
Water Temperature	10:25 AM	14.5°C 58 °F	11:45 AM	15°C 59 °F	
Water Surface					
Turbidity <i>Short sight tube</i>	10:02 AM	60, 70, 40	85 JTUs		
Chemical					
DO	TIME	Temp	DO	% Sat	
DO – drop count test kits *expect air bubble	9:59 AM	20°C	11 ppm	120%	
	10:55 AM	17°C	15 ppm*	150 %	
	12:10 PM	17°C	9 ppm	85%	
	12:56 PM	17°C	12 ppm	125%	
pH – test strip	9:42 AM	6			
Salinity – Quantab	Time	Quantab units	Chloride	Total Salinity	
	10:31AM 12:38 PM 12:06 PM	9.6 units ? 5.8 units HR 5.4 units HR	Assume LR 1506 ppm 1281 ppm	Assume topped out 2721 ppm 2314 ppm	
Nitrates	AM readings	All below detection ‘0’			
Fish Catch	Species	Count	Size of largest	Totals	
FISH	Spottail Shiner	8		DIVERSITY 4	
	Herring	2		TOTALS -18	
	Striped Bass	4			
	Darter	4			
MACRO	Blue Crab – M	2		DIVERSITY – 1	
				TOTALS - 2	
Tides	9:27 AM 9:45 AM 10:20 AM 11:46 AM 12:27 PM	39.6 36.6 42.67 85.34 94.5	Set point Falling Rising Rising Rising		
Currents	Time	Cm/30 sec	cm/sec	Kts	N/S/F
	9:30 AM 10:23AM 11:40 AM 12:30 PM	792.5 45.72 396.24 396.27	26.4 1.52 13.2 13.21	0.51 0.03 0.26 0.26	Flood Ebb Flood Flood
Shipping	12:27 PM	Paddleboat		Northbound	
Recreational	12:47 PM	Sailboat		Southbound	