

Day in the Life of the Hudson River 10/13/22

Kowawese Plum Point, New Windsor, NY

RIVER MILE: 58.1

Salt Front: ~ Rm 76

Orange Co unty Water Authority – Sarah Archbald, MaryLynne Malone,

Orange County Homeschool Group - 23 students & 6 adults

Latitude 41.5° N & Longitude -74°W



Location: Kowawese Plum Point, New Windsor, NY

Area: Orange County Park Kowawese Plum Point. Sampled on the southern shoreline, facing Storm King mountain, just to the right of the gazebo and central area of park.

Surrounding Land Use: 75% Forested, 25% Beach

Sampling Site: Forested, beach, grassy, parking lot, covered in vegetation

Shoreline: 75% Sandy, 25% Rocky

Water: Choppy; 30 cm deep

Plants in area: No plants in the water

River Bottom: Sandy & Rocky

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
<i>Physical</i>					
<i>Air Temperature</i>	9:20 AM 11:30 AM	15° C 20° C	60°F 68°F		
<i>Wind Speed:</i>	11:30 AM 2:00 PM	<i>Anemometer</i> 10-20 mph 27 mph	<i>Beaufort</i> 5 NR	<i>Direction</i> S/SE NR	
<i>Weather today</i>	11:30 AM	> 75% cloud cover	Start and Stop Rain		
<i>Weather the past 3 days:</i>	High winds the previous afternoon but otherwise the previous 3 days were clear, crisp, warm seasonal weather				
<i>Tides- tide stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Water Height (cm)</i>	
	9:55 AM 11:30 AM	Rising		0 cm 36 cm	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
Bay to south of Kowawese @ mouth of Moodna Creek	11:45 AM 11:50 AM 11:55 AM	12.7 26 15	0.25 0.5 0.3	North North North	Flood Flood Flood
<i>Water Temperature-</i>	1:12 PM	18°C		64°F	

Turbidity- Long Sight Tube (120 cm)	1:09 PM	7.75 cm average	Very turbid!		
Chemical					
Salinity- LR Quantabs	1:20 PM	LR Quantab 8.4	> 1,113 ppm	*beyond detection	
Standardized Salinity – HR Quantab	2:23 PM	1,807 ppm			
DO – Hach Drop Count Kit	<i>Time</i> 2:01 PM	<i>Temp</i> 18°C	<i>ppm DO</i> 10 ppm	<i>% saturation</i> 105%	
pH – NR					
Nitrates- NR					
Phosphates- NR					
Alkalinity- NR					
Biological					
Fish – Seine	Number	Name	Length of longest	Length of smallest	
10:15 –11:00 AM	4	American Eel	28 cm	25 cm	
	2	Atlantic Silverside			
	7	Striped Bass	11.4 cm	9 cm	
Fish Totals	TOTAL: 13	Diversity: 3			
Macroinvertebrates	Number	Name	Length of longest	Length of smallest	
	4	Blue Crab			
Macroinvertebrate Totals	TOTAL: 4	Diversity: 1			
Sediment Core - NA					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
Boats-					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial	2:20 PM	Barge	NR	Northbound	Loaded
Residential	9:30 AM	Sailboat	NR	NR	NR
	9:45 AM	Speedboat	NR	NR	NR