

Day in the Life of the Hudson River 10/05/2023

Plum Point, Kowawese, New Windsor, NY

RIVER MILE: 58.1

Salt Front: ~ RM 52

San Miguel Academy -Marianne Serratore, Principal

Mt. St. Mary's College – Suparna Bhalla

Orange County Water Authority- Sarah Archbald &

Mary Lynne Malone

33 students, 7th grade, 8 undergrads, 4 adults

Latitude 41.46176°N & Longitude -74.01194°W



Location: Plum Point, Kowawese, New Windsor, Orange County, NY

Surrounding Land Use: 50% Beach, 45% Forested, 5% Urban/Residential

Sampling Site: Grassy & Forested, Beach, Wood Bulkhead, Area covered in vegetation, RipRap on shoreline, Parking lot

Shoreline: 20% Sandy, 10% Muddy, 70% Rocky

Water: Choppy

River Bottom: Rocky

Plants in the water: 20% Water Chestnuts, 31% Eel Grass

*NR = Not read/recorded

Afternoon session did not turn in data but OCSWD turned in the fishing data for them so that is below.

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
<i>Physical</i>					
<i>Air Temperature</i>					
<i>Wind Speed:</i>		<i>Anemometer</i>	<i>Beaufort</i>	<i>Direction</i>	
<i>Weather today</i>					
<i>Weather the past 3 days:</i>					
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Slack</i>
<i>Water Temperature-</i>					
<i>Turbidity-</i>					
<i>Chemical</i>					
<i>Standardized Salinity- Low Range Quantabs</i>	12:45 PM	44 ppm Cl ⁻		79 ppm (Total Salinity -TS)	
<i>Student Salinity-</i>					
<i>DO –</i>	<i>Time</i>	<i>Temp</i>		<i>ppm DO</i>	<i>% saturation</i>
<i>pH – Color Match Kit</i>					

Biological

<i>Fish- Seine</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Smallest</i>		
	1	Bluegill Sunfish	7.62 cm	6.0 cm		
	4	Spottail Shiner	20.32 cm	10.16 cm		
	21	Herring	6.35 cm	NA		
Fish Totals	TOTAL: 26	Diversity: 3				
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>			
Macroinvertebrate Totals	TOTAL: 0	Diversity: 0				
<i>Sediment Core</i>	<i>Time</i>	<i>Oxid Top</i>	<i>H₂S Smell</i>	<i>Oil</i>	<i>Grain Size</i>	<i>Other Features</i>

Boats-NR

Commercial/ Recreational	Time	Type	Color	Southbound/ Northbound	Light/ Loaded