

**Day in the Life of the Hudson River 10/05/2023**  
**Schoharie Creek, Middleburgh, NY**  
**MOHAWK RIVER MILE: 53**  
*Hudson River Salt Front ~RM 52*  
**Middleburgh Jr/Sr Highschool -Mollie Burgett**  
**Stamford DEC- Scott Wells**  
**5 students, 12<sup>th</sup> grade, 2 adults**  
**Latitude 42.82672 °N & Longitude -74.26272 °W**



**Location:** Schoharie Creek, Middleburgh, NY  
**Surrounding Land Use:** 50% Industrial & 50% Forested  
**Sampling Site:** Covered in vegetation, Ripraps (large rocks) and a pipe entering into the water  
**Shoreline:** 25% Muddy & 75% Rocky  
**Water:** Calm with light ripples  
**River Bottom:** Muddy & Rocky  
**Plants in the water:** 15% of plants growing in water  
 \*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<b>Physical</b>				
<i>Air Temperature</i>	9:42 AM 12:00 PM	13 ° C 25 ° C	55 ° F 77 ° F	
<i>Wind Speed:</i>	9:45 AM	<i>Anemometer</i> 4-6 knots	<i>Beaufort</i> 2	<i>Direction</i> NR
<i>Weather today</i>	10:30 AM	26-50% Cloud Cover	No rain	
<i>Weather the past 3 days:</i>	Cloudy Foggy mornings, with light fog, warmer temperature in afternoon			
<i>Tides- NA above the head of tide</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>
		17.27 23.10 23.73		N/A
<i>Water Temperature- NR</i>				
<i>Turbidity- Short Sight Tube (cm)</i>	11:00 AM	*60 cm		*This would be at the limit of the tube so >60 cm visibility
<b>Chemical</b>				
<i>Standardized Salinity- Low Range Quantabs</i>	9:30 AM	Below Detection		

<b>DO – Lamotte Drop Count Kit</b>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	12:06 PM	26°C	*2 ppm (expect reagent failure)	NR
<b>pH – Test Strips</b>	11:00 AM	7		
<b>Nitrates- Freshwater Test Kit</b>	11:00 AM	0 ppm		
<b>Phosphate-Drop Count Kit</b>	11:00 AM	0 ppm		
<b>Biological</b>				
<b>Fish- Electroshocking</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	<b>Notes</b>
	6	Fathead Minnow	8 cm	
	2	Fallfish	22 cm	
	1	Brown Bullhead	10 cm	
	8	Rainbow Darter	7.5 cm	
	31	Fantail Darter	5.3 cm	
	25	Tessellated Darter	6 cm	
<b>Fish Totals</b>	<b>TOTAL: 73</b>	<b>Diversity: 6</b>		
<b>Macroinvertebrates</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	
	10	Dobsonfly		
	75	Mayfly nymph		
	1	Stonefly nymph		
	11	Caddisfly larvae		
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 97</b>	<b>Diversity: 4</b>		
<b>Sediment Core</b>	<b>Time</b>	<b>Oxid Top</b>	<b>Grain Size</b>	<b>Other Features</b>
	NR	NR	<i>Abundant:</i> Mud <i>Common:</i> Clay & Pebbles <i>Rare:</i> Sand & Gravel	<i>Abundant:</i> Macroinvertebrates & Living Vegetation <i>Common:</i> Leaves & Wood <i>Rare:</i> Brick

**Boats-NR**

<b>Commercial/Recreational</b>	<b>Time</b>	<b>Name</b>	<b>Color</b>	<b>Southbound/Northbound</b>	<b>Light/Loaded</b>