

Day in the Life of the Hudson River 10/22/20

SCHOHARIE CREEK

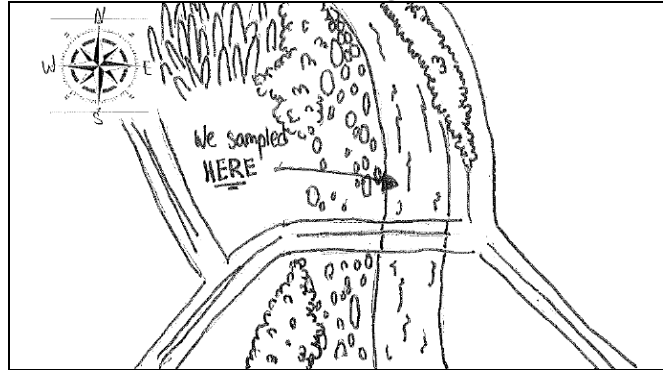
RIVER MILE: (Mohawk River) 53

Salt Front: ~ RM 75

Middleburgh Central- Mollie Burgett

12 students 12th grade, 4 adults

Latitude 42.599635 N & Longitude – 74.337226 W



Location: Schoharie Creek, Mohawk Drainage, Middleburgh, Schoharie County, NY

Surrounding Land Use: 33% Forested, 33% Urban/Residential, 0% Industrial commercial, 33% Beach

Sampling Site: Creek access point is north of Timothy Murphy Park, Fishing access on northern side of the bridge.

Shoreline: 95% Rocky beach area, covered with vegetation, storm drain outflow south of sampling ~50 ft - 5% muddy

Water: 15.8 cm to bottom, calm

River Bottom: Rocky, small to medium cobbles

Plants in the water: no plants in the water area

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature</i>	AM	29 ° C	84.2 ° F	
	AM	27 ° C	80.6 ° F	
		19 ° C	66.2 ° F	
<i>Wind Speed:</i>	11:00 AM	Beaufort 1	North & South – shifting in between	
	11:26 AM	Beaufort 2		
	12:05 PM	Beaufort 1		
<i>Weather today</i>	Overcast (50%) all day but no rain			
<i>Weather past 3 days:</i>	Temperate			
<i>Tides- NA = above the head of tides.</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Water Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>
	NA			
<i>Current- Stream Flow</i>	<i>Time</i>	<i>cm/second, Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	12:46 PM	27.4 cm/s		
<i>Water Temperature-</i>	11:14 AM	25 ° C		
<i>Turbidity- long sight tube</i>	11:30 AM	Exceeded 60 cm		
Chemical				
<i>Salinity-</i>	NA			
<i>DO – drop count</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	10:55 AM	25 ° C	7.0	80%
	11:09 AM	23 ° C	8.0	92%
	1:00 PM	19 ° C	7.6	80%

<i>pH – indicator solution</i>	11:12 AM	7.6		
<i>Nitrates-</i>	11:12 AM 9:20 AM	0 ppm 0 ppm		
Biological				
<i>Fish</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Notes</i>
Seining Data 15 ft. X 3 mins.	1	Northern Hog Sucker	161 mm	Colder deeper water yielded more fish
	1	Green Sunfish	35 mm	
	1	Bluegill Sunfish	50 mm	
Electro shocking	4	Smallmouth Bass	140 mm	
	30	Rainbow Darter	66 mm	
	52	Greenside Darter	89 mm	
	4	Fantail Darter	50 mm	
	3	Margined Madtoms	120 mm	
	4	Long Nose Dace	93 mm	
2	Roseyface Shiner	37 mm		
Fish Totals	TOTAL: 102	Diversity: 10	<i>For 3 caught by seine - 15 ft. pull/3 mins</i>	<i>40 ft total 0.0164 CPU</i>
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
Kick Net 2 Total minutes of kicking	7	Dobsonfly Larvae		
	32	Mayflies Larvae		
	739	Crayfish		
	4	Stonefly larvae		
	6	Mosquito larvae		
	1	Water beetle		
	1	Caddisfly Larvae		
Macroinvertebrate Totals	TOTAL: 790	Diversity: 7		
<i>Sediment Core</i>	<i>Time</i>	<i>Oxid Top</i>	<i>Grain Size</i>	<i>Other Features</i>
	NR			
Observations	Quite a few bricks, lots of crayfish and macroinvertebrates			
Journal Entry	During our endeavors, the environment was relaxing. We could hear the running water, smell the presence of aquatic life, and feel the slight breeze from the atmosphere. The organisms residing in the environment were more than fascinating, from Dobson fly larvae to rainbow darters, it was surprising to see the diversity in that the environment offered. The mellow weather and our curiosity to see the many lifeforms in the creek influenced our data collection.			