**Snapshot Day 10/20/15 Data**

**Mohawk River Valley**

**SCHOHARIE RIVER SITE RIVER MILE**

**Middleburgh, NY**

**Mollie Burgett, Middleburgh High School & 11 students 11/12th grade**

**42.599640 Lat and -74.337176 Long**

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**Middleburgh Sampling Team**

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**Macroinvertebrate sampling Greensided darter**

**Location:** On the Schoharie Creek by the Bridge Into Middleburgh, Schoharie County

Sample location runs right along river street (one of the main streets in the village) and is

full of cobbles, some grasses and short shrubs under 4 feet tall. The trees along the bank on one side make a break between the road and the creek and the other side divide the creek from farm fields.

**Surrounding Land Use:** 45% urban/residential, 45% farmland, 10 % forested

**Shoreline:**  Banks altered, Riprap, Concrete blocking, 1 stormdrain of some sort occasionally discharges in to the creek just down from the sample site. Lots of cobbles in stream channel, area covered in vegetation

**River Bottom:** Mostly rocky although sandy and muddy and brick on ground

**Water Depth:** 30 cm

**Water Conditions:** Calm, clear

**Plants in water:** 90 % algae, covered rocks (cobbles)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** | |
| ***Physical*** |  | |  |  |  | |
| Air Temperature | 8:40 AM  8:39 AM  9:10 AM | | 14°C  14°C  10.5°C |  |  | |
| Wind Speed |  | | Beaufort #1 | none |  | |
| Cloud Cover | 8:40 AM | | 26-51% |  | | |
| Weather today | 10:00 AM | | sprinkles /light rain | | |
| Weather recently | 40s and some snow | | | | |
| ***Water Temperature*** | 9:30 AM | 8°C – 2 ft depth  9°C – ½ ft | | ***Riffle*** |  | |
|  | 8:45 AM | 8°C – ½ ft.  9  9 | | ***Still water*** |  | |
| ***Turbidity 60 cm***  ***Site tube*** | 8:30 AM | >60 cm clarity | |  |  | |
| ***Chemical*** |  |  | |  |  | |
| DO – drop count – old kit  ***Riffle*** | 9:25 AM | 8.5°C | | 10.4 mg/L | 90% | |
| ***Still***  Old kit | 8:36 AM  8:38 AM  9:05 AM | 9°C | | 7  16.6 ??  13.6 ?? | 60%  150%  120% | |
| pH – test strips  ***Average - 6.5*** | ***Still water***  9:05 AM  9:20 AM  9:20 AM  9:45 AM | 7  6  6  7 | | ***Riffle***  9:09 AM  9:30 AM  9:45 AM | 6.5  6  6.5 | |
| ***Flow Rate (no current up here)*** | Riffle | 92.2 cm/sec  140 cm/sec  14 cm/sec | | Used stick  Used leaf  Used stick |  | |
|  | Still water | 14.67cm/sec  46 cm/sec  2.9 cm/sec | | Used stick  Used leaf  Used leaf |  | |
| ***Fish –kick net 9:30 AM*** | 1 | Greensided darter | | 6 cm - | **DIV – 2**  **TOTAL- 14** | |
| ***Butterfly net by hand*** | 13 | Shiners | | 7 cm |  | |
| ***Large Macros*** | 4 | Rusty Crayfish | | Invasive – 3 F /1 M | **Div – 1**  **Total 4** | |
| ***Macroinvertebrates*** | ***Number*** | ***Species*** | | **2:00 PM** | **Diversity 7** | |
| ***Kicknet &hand net*** | 1 | Fishfly larvae | |  | **Totals 142** | |
|  | 104 | Mayfly larvae | |  |  | |
|  | 11 | Helgramite | |  |  | |
|  | 7 | Stonefly | |  |  | |
|  | 2 | Riffle Beetle | |  |  | |
|  | 1 | Water Penny | |  |  | |
|  | 17 | Caddisfly | |  |  | |
| ***Core Sample*** | **Length** | **Rare** | | **Common** | **Abundant** | |
|  | No soil |  | |  |  | |
| ***Observations*** | 1 bird, dead vole | | | | | |