**Snapshot Day 10/16/14 Data**

**Mohawk River Valley**

**SCHOHARIE RIVER SITE RIVER MILE**

**Middleburgh, NY**

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**Mollie Burgett, Middleburgh High School & 7 students 12th grade**

**42.599774 Lat and -74.336856 Lon**

|  |
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|  |
| **37 Invasive Rusty Crayfish collected and 0 native crayfish!**  |

**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:** 30% residential, 70% farmland

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

**Storm Drains:** Several

**River Bottom:** Mostly rocky although sandy and muddy

**Water Depth:** 50 cm

**Plants in area:** 70 % grass, 7% trees, 10% shrub

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 12:55 PM | 73.4°F23°C | 73.4°F23°C |  |
| Wind Speed |  | Beaufort #4 | South |  |
| Cloud Cover | 12:55 PM | 100% overcast |  |
| Weather today | 1:00 – 4:00 PM  | Intermittent rain  |
| Weather recently | Large storm last night – but prior to that very dry |
| Water Surface |  |
| ***Water Temperature*** | 12:56 PM | 19°C | 66°F | Shade – water still 2 inch depth |
|  | 12:57 PM | 20°C | 68°F | 2 inch depth |
|  | 1:50 PM | 20°C | 68°F | 12 inch depth |
| ***Turbidity 60 cm******Site tube*** | 1:00 PM | Tube was too short – water very clear |  |  |
| ***Chlorophyll*** | 2:10PM | 1.5 |  |  |
| ***Chemical*** |  |  |  |  |
| DO – titration kitSlow section – not a riffle | 2:12 PM | 20°C | 9.0 mg/L | 98% |
| pH – test strips | 12:59 PM1:04 PM1:05 pM1:08 PM | 6768 |  | Average 7 |
| ***Flow Rate (no current up here)*** | Slow moving section  | 13.3 cm/sec | Average |  |
|  | Riffle  | 39.4 cm/sec | Average |  |
|  | Mid section | 29.4 cm/sec | Average |  |
| ***Fish –2 ft. kicknet in a riffle – 1-2PM*** | 1 | White sucker  | 2-5 inch | **DIVERSITY** **3** |
|  | 1 | Yellow bullhead | 4 inch | **TOTALS 3** |
|  | 1 | Spottail Shiner | 2 inch |  |
| ***Large Macros***  | 37  | Rusty Crayfish | invasive | **Div – 1****Total 37** |
| ***Macroinvertebrates***  | ***Number***  | ***Species*** | **2:00 PM** | **Diversity 6** |
| ***small handnets***  | 50 | Fishfly larvae |  | **Totals 73** |
|  | 5 | Mayfly larvae |  |  |
|  | 1 | Helgramite |  |  |
|  | 2 | Stonefly |  |  |
|  | 15 | Riffle Beetle |  |  |
|  | 10 | Mayfly larvae | **2:05 PM** | **Diversity 3** |
|  | 2 | Helgramite |  | **Totals 13** |
|  | 1 | Water Penny |  |  |
|  | 2 | Helgramite | **2:15 PM** | **Diversity 3** |
|  | 6 | Stonefly |  | **Totals 9** |
|  | 1 | Water penny  |  |  |
| ***Core Sample***  | **Length** | **Rare** | **Common**  | **Abundant** |
|  | 5 cm length | Macro- invertebrates | Leaves | MudSandGravelPebbles |
| ***Observations*** | Slightly overgrown, crayfish shells, cardboard and other trash Few butterflies, chickadees and pigeons |