**Day in the Life of the Hudson River 10/20/15 Data**

**RIVER MILE 100**

**South Cove at Falling Waters, Glasco, Ulster County**

**Brian Robinson, Saugerties High School, 13 AP Env. Sci. 11th-12th grade students and 2 adults**

**N 42. 049457 , W-73.939081**

**Location:** Falling Waters South Cove

**Area:** Forested

**Surrounding Land Use:** 100% forested

**Sampling Site:** Parkland, beach covered in vegetation, concrete bulkhead

**Shoreline:** Sandy, muddy, rocky

**Depth:** could not see bottom

**Plants in area:** water is 40% covered with water chestnut

**Site Observations:** Old brick pieces on the ground names on bricks are Wasburn, Lent, …Bury, lots of old washed up logs, seaweed

**Water:** Choppy

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Readings*** |  |  |
| ***Physical*** |   |  |  |  |
| Air Temperature | 10:47 AM | 12.6°C | 54 °F |  |
| Wind Speed | 10:42 AM | Beaufort 3  |  |  |
| Cloud Cover | 10:45 AM  | Mostly Cloudy  | 51-75% |  |
| Weather today | Clear no rain, warm and windy |  | ***Water surface*** |  |
| Weather recently | No rain for past 3 days. Sunday 10/18 unusually cold and windy. Monday 10/19 seasonal temperatures but still a bit windy.  |
| ***Water Temperature*** | 10:51 AM11:03 AM | 12°C12°C | 54 °F54 °F | 1 ft. depth,  |
| ***Turbidity*** | 10:51 AM | 40 cm41 cm38 cm | 39.6 cm average | Water was very cloudy, with small black particles |
| ***Chemical*** | **Time**  | **ppm** | **Temp** | **% Sat** |
| DO Drop count kit  | 11:00 AM | 9 | 12.2°C | 80% |
| pHcolor match test | 10:53 AM11:00 AM | 8 8 |  |  |
| Salinity –titration strips | 11:57 AM12:08 PM12:14 PM | 1.6 strip1.41.4 | 34 ppm Chl | 61 ppm TS |
| ***Fish Catch*** | Time | Species | # caught | Size |
|  | 11:15 AM  | Blueback herring | 5 | Y-o-y 4-5 cm |
| ***Tides - water depth***  | ***Time*** | ***Distance to water***  | ***Rate of change*** | ***Flood or Ebb***  |
|  | 11:06 AM11:08 AM11:10 AM11:11 AM 11:15 AM11:18 AM | 15 cm14 cm13 cm13 cm11 cm11 cm | ebbing |  |
| ***Currents*** | ***Time*** | ***Cm/30 sec*** | ***Cm/sec*** | ***Knots &******Ebb/Flood*** |
|  | 10:50 AM | 60 cm | 2 cm/sec | Ebb |
| ***Recreational Traffic***  | 10:55 AM | Pleasure boat  | Blue/white  | Docked – carrying small sailboat |
|  | 11:21 AM | Luxury boat | White  | South - light |
| ***Observations***  | Bricks, spiders, water chestnut in the area. And lots of logs and valissneria (‘seaweed’)  |