**A Day in the Life of the Hudson River 10/20/16 Data**

**(Salt front ~ RM 83)**

**RIVER MILE 102**

**Saugerties Light House, Town of Saugerties, Ulster Co.**

**Marie Daniels, Jennifer Reid & Matthew, Woodstock Day School**

**Grades 3rd & 7th, 18 students and 8 adults**

**42.04**°**N, 73.92** °**W**

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**Sampling Site – by Madeline**

**Location:** Saugerties Light house @ northern bank of peninsula – Beach opposite the floating dock with porta potty on it

**Area:** Pier of sorts, boating, fishing, swimming beach, picnics, hiking, walking

**Surrounding Land Use:** Forested/Marsh 80%, Beach 20%

**Sampling Site:** beach, bulkhead altered banks years ago, covered with vegetation, collected wood/debris in area, shoreline riprap at lighthouse, shoreline is sandy, muddy, rocky

**River Bottom:** muddy, sandy

**Plants in area**: Total plant make up 50% water chestnut, and 30% water celery, 20 % reeds

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 10:48 AM11:27 AM11:17 AM | 8°C5°C15°C | 46° F41° F57 F | Avg – 9.3°C 49° F  |
| Wind Speed | 11:30 AM 11:15 AM | Beaufort #1Beaufort #2 |  |  |
| Cloud Cover | 11:30 AM | overcast | 76-100% cloud |  |
| Weather today | No rain  |
| Weather recently | Warm 80 degree temps  |
| ***Water Temperature*** | 10:30 AM 11:50 AM11:55 AM | 10 °C15°C15°C | 2 ft. water3 ft. water2 ft. water |  |
| ***Water Calm or Choppy*** | calm |  |  |  |
| ***Turbidity***Long site tube | 11:05 AM11:36 AM  | 39 cm31.2 cm |  | Average – 35.1 cm |
|  | 11:00 AM | 26 cm3235 | Average 31 cm  |  |
|  | 11:28 AM | 2634 25  | Average – 28.3 cm |  |
|  | 12:01 PM  | 26 cm2729 | Average 27 cm |  |
| ***Chemical*** |  |  |  |  |
| DO (ampules) | NR |  |  |  |
| pH – color match kit | NR |  |  |  |
| Salinity Quantabs  | NR |  |  |  |
| ***Fish – 50 ft. net*** | **Time**  | **Species** | **# caught** | **Length of largest** |
| ***Tides*** | **Time** | **Height** | **Falling/Rising** |  |
|  |  NR |   |  |  |
| ***Currents*** | **Time** | **Cm/30 secs** | **Cm/sec** | **N/S - E/F/S** |
|  | 11:00 AM 11:10 AM11:48 AM | 208cm/30 sec250 cm/30 200 cm/30  | 7 cm/sec8.3 cm/sec6.6 cm/sec |  |
| ***Sediment Core -*** ***Length***  | **Observation**  | **Rare** | **Common**  | **Abundant** |
| ***10:50 AM -***  | No length | leaves | Mudsand |  |
| ***11:15 AM***  | No length | LeavesMacroinvert |  | Sand |
| ***11:30 AM***  | No length |  |  | Sand |
| ***12:05 PM*** | No length |  |  | MudSandWood |
| ***Shipping******Commercial (C)*** | 10:48 AM11:00 AM11:30 AM11:35 AM | Red YellowWhiteGreyRed | UBC - SeattleTugboatNRtugboat | S- LightS- LightN – LoadedSE  |
| ***Recreational (R)*** | 10:47 AM11:50 AM11:55 AM | BlackNRBlack | SailboatSpeedboat | S -LightN- People S - People |
| ***Observations***  | Lots of rocks, Brick, Water Chestnut devil heads, lumps of coalCrow,Large boats going through the river can push the water towards the shore – does this impact the fish by pushing them too? Water Chestnut are draining the oxygen from the water  |