**A Day in the Life of the Hudson River 10/10/13 Data**

**(Salt Front RM 69.3)**

**RIVER MILE 102**

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

**Mary Henry, Woodstock Day School**

**Grades 5th, 12 students and 3 adults**

**Location:** Saugerties Light house @ northern bank of peninsula

**Area:** Pier of sorts, boating, fishing, swimming beach, picnics, has a building with restrooms

**Surrounding Land Use:** Forested 90%, Beach 10%

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

**Water depth**:

**River Bottom** : Sandy

**Plants in area:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** | |
| ***Physical*** |  | |  |  |  | |
| Air Temperature | 11:00 AM | | 55°F  12.78°C |  |  | |
|  | 11:30 AM | | 55°F  12.78°C |  |  | |
|  | 12:00 PM | | 54 °F  12.22°C |  |  | |
| Wind Speed | 11:30 AM | | Beaufort #1 | 1-3 mph | North |
| Cloud Cover | overcast | |  |  |  | |
| Weather today | Drizzle/light rain occasional | | | | |
| Weather recently | Rain, sunny and warmer than usual | | | | |
| ***Water Temperature*** | 11:00 AM | 17°C | |  | 2 ft. water | |
| Taken in direct sun within 100 ft. of lighthouse | 11:30 AM | 15°C | |  | 2 ft. water | |
| 12:00 PM | 16°C | |  | 2 ft. water | |
| ***Water Calm or Choppy*** | calm |  | |  |  | |
| ***Turbidity***  secchi | 12:40 PM | 75 cm | | Water seemed ‘cloudy’ |  | |
| ***Chlorophyll*** | 11:00 AM | 0.7 | |  | |
| ***Chemical*** |  |  | |  |  | |
| DO  (ampules) | 11:15 AM | 8 mg/L | | 17°C | 85% | |
|  | 12:30 PM | 8 mg/L | | 16°C | 80% | |
| pH – color match kit | 11:00 AM  12:30 PM | 8.0  8.0 | |  |  | |
| Salinity – Quantabs - | N/R |  | |  |  | |
| ***Fish Catch –30 ft. net*** | ***Number Caught -*** | ***Species – diversity*** | | ***Length of largest*** | ***Seining data*** | |
| 11:30 AM | NO CATCH!! |  | |  |  | |
| ***Tides*** | **Time** | **Height** | | **Falling/Rising** |  | |
|  | 11:00 AM | 42 cm | |  |  | |
|  | 11:30 AM | 28 | | Falling |  | |
|  | 12:00 PM | 29 | | Falling |  | |
|  | 12:30 PM | 16 | | Falling |  | |
|  | 1:00 PM | 12 | | Falling |  | |
| ***Currents*** | **Time** | **Cm/60 secs** | | **Cm/sec** | **N/S and E/F/S** | |
|  | N/R |  | |  |  | |
| ***Core*** | **Description** | **Rare** | | **Common** | **Abundant** | |
|  | Oil appearance |  | | Mud  Sand  Gravel  Slag | Clay  Pebbles | |
| ***Ships*** | 12:30 PM | Barge | | Black | Southbound/ Light | |
| ***Other*** | cormorants |  | |  |  | |