**A Day in the Life of the Hudson River 10/24/14 Data**

**(Salt Front RM 65.3)**

**RIVER MILE 102**

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

**Marie Daniels, Woodstock Day School**

**Grades 3rd & 7th, 25 students and 6 adults**

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**Student Sketch of the Sampling Site along the pier
Location:** Saugerties Light house @ northern bank of peninsula – pier with grassy area

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

**Surrounding Land Use:** Beach 100%

**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, weedy, sandy

**Plants in area**: 50% weeds, 30% trees, 10% leaves, 10% fålowers

**Sampling Times – 10 AM to 1PM**



**Student sketch of the lighthouse and sampling site**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 11:08AM11:44 AM | 15°C13°C |  |  |
| Wind Speed | 11:03 AM | Beaufort #5.5 |  | North |
| Cloud Cover | 11:04 AM | overcast | >75% cloud |  |
| Weather today | Sporadic rain  |
| Weather recently | Rain yesterday  |
| ***Water Temperature*** | N/R |  |  |  |
| ***Water Calm or Choppy*** | Somewhat choppy |  |  |  |
| ***Turbidity***secchi | 92 cm66 cm |  | Average – 79 cm |  |
| ***Chemical*** |  |  |  |  |
| DO (ampules) | 10AM-1PM | 8 to 10 mg/L |  |  |
| pH – color match kit | 10:36 AM | 7.5  |  |  |
| Salinity Quantabs  |  | 38 ppm Cl- | 68.6 TS |  |
| ***Tides*** | **Time** | **Height** | **Falling/Rising** |  |
|  | 11:30 AM | 80 cm | Rising | LT for area ~10:54 |
| ***Currents*** | **Time** | **Cm/30 secs** | **Cm/sec** | **N/S - E/F/S** |
|  |  | 558 cm/30 sec | 18.6 cm/sec | Flood |
|  |  | 591 cm/35 sec | 16.9 cm/sec | Flood |
| ***Shipping*** | 10:15 AM | Bouchard | Northbound | Loaded |