**Day in the Life of the Hudson River 10/12/17 Data**

**RIVER MILE 153**

**(Salt Front ~ RM 65)**

**River Park, Green Island Park, Green Island NY**

**Dawn Baldwin, SUNY Poly CMOST**

**Dan Shepard & Susan O’Dell Taylor School**

**16 - 5th & 6th grade students, 4 adults**

**Latitude 42° 44”53.04” N – Longitude -73° 41’20.62” W**

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**Location:** Green Island Park boat ramp, below the Troy Dam, Albany County, NY

**Area:** Beach area with a lot of vegetation, very muddy and rocky. The Troy dam is directly to the north

**Surrounding Land Use:** Forested,Rocky, Fishing access, gravel, some vegetation

**Sampling Site**: 40% urban/residential, 30%beach, 20%industrial/commercial, 10% forested

**Shoreline:** Beach is rocky, broken concrete docking, very rocky shoreline, slag, concrete at the launch, brick pieces, 50 % vegetation, pipe directly across sampling site

**Plants in water:** less than 1%

**Water depth**; Sampling was done from approximately 2 feet of depth

**River Bottom**: mainly rocky

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 10:20AM | 55°F12.78°C |  |  |
|  | 11:20 AM | 57°F13.89°C |  |  |
| Wind Speed | #1 Beaufort |  |   |  |
| Cloud Cover | Clear |  |  |  |
| Weather today | none |
| Weather recently | Slightly warm fall days Mon & Tues and Wed. night rain – today is Thursday |
| ***Water surface*** | Calm with ripples |  |  |  |
| ***Water Temperature*** | 10:20 AM | 13.33°C | 56°F55.556 | Average 55.75°F |
|  | 11:00 AM | 13.33°C | 56°F56°F56°F | 56 °F |
| ***Turbidity –short site tube*** | 10:25 AM | 0 JTU X 3 | 0 JTU |  |
| ***Chemical*** | 10:00 AM | 1.0  |  |  |
| DO Drop count kit | 11:00 AM | 13.33°C | 7 ppm | 68% |
| pH –indicator solution | 12:44 PM | 7.57.07.0 |  | Average 7.25 |
| Salinity –hydrometer | 12:00 noon | Below Detection | Unable to read salinity in this area with hydrometer.  |
| Nitrates | 12:30 PM  | 0.5 ppm  | 3 tests |  |
| ***Fish Catch –***  | ***Time*** | ***Number Caught*** | ***Species*** | ***Size Largest*** |
| Four tries to seine but no fish | ZERO |  |  |
| ***Tides*** | ***Time*** | ***Height in c***  | ***Rising/Falling*** | ***Rate of change*** |
|  | 9:00 AM  | 5 cm | Rising |  |
|  | 9:20 AM | 20 cm | Rising | 0.75 cm/min |
|  | 9:50 AM | 27cm | Rising | 0.23 cm/min |
|  | 10:19 AM | 32.5 cm | Rising  | 0.19 cm/min |
|  | 10:35 AM | 35 cm | Rising | 0.16 cm/min |
|  | 10:55 AM | 37.5 cm | Rising | 0.125 cm/min |
|  | 11:30 AM | 34 cm | Falling | 0.1 cm/min |
|  | 12:00 PM | 1 cm |  | 0.55 cm/min |
|  | 1:00 PM  | Water receded beyond tide stick  |
| ***Currents*** | **Time** | **Cm/30 secs** | **Cm/sec** | **North South** | **Ebb/Fld/Still** |
|  | 10:15AM  | 228.6 | 7.62 cm/sec | South |  Ebb  |
|  | 11:15AM | 274.32 | 9.14 cm/sec |  South |  Ebb  |
| ***Traffic Recreational*** | Not traffic other than a DEC boat first thing in the am   |  |  |
| ***Other Observations***  | **Two bald eagles nesting in a tree within sight of our location. They came out over the river twice – spectacular!**Students from Susan O’Dell Taylor Middle School gathered on the shore waiting to see what the DEC brought to show them. They and their partners from CMOST were thrilled to see an eagle swoop down to catch some breakfast.  |