**Day in the Life of the Hudson River 10/23/14 Data**

**(Salt Front RM 61.1)**

**RIVER MILE 153**

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

**Kate Perry & Lynn Schuster, Robert C. Parker School**

**50 students - 2nd & 3rd and 6th and 7th grade students, 10 adults**

**42.74 N -73.69 W**

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**Sampling Site**

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

**Area:** park above bluff and then beach below just south of the Troy dam

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

**Sampling Site**: 100%industrial/commercial

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

**Plants in water:** very few plants in the water – 1%

**Plants in area:** goldenrod, grasses, Joe Pyeweed

**Water depth**: 0-10 cm along shore

**River Bottom**: muddy, rocky

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 10:28 AM | 48 °F8°C |  |  |
| Wind Speed | #3 Beaufort | 9 mph | North |
| Cloud Cover | Overcast |  |  |  |
| Weather today | Drizzling steadily ~ 4mm collected |
| Weather recently | Lots of rain last few days |
| ***Water surface*** | choppy |  |  |  |
| ***Water Temperature*** | 10:10 AM | 11°C | 52°F |  |
| ***Turbidity –long site tube*** | 10:15 AM | 9.4 cm5.2 cm2.0 cm | 5.5 cm average |  |
|  | PM | 51.1 cm53.4678.0 | 60.85 cm average |  |
| ***Chlorophyll*** | 10:20 AM | 0.01.0 |  |  |
|  |  |  |  |  |
| ***Chemical*** | 10:00 AM | 1.0  |  |  |
| DO (Drop count kit | 10:24 AM | 11°C | 22 ppm\* off scale – air bubble or not swirled | Off the chart |
| pH - pen | 10:10 AM | 5.06.07.0 |  | Average 6.0 |
| Salinity – meter | 10:15 AM | 130 ppm |  |  |
| ***Fish Catch – dip net***  | ***Time*** | ***Number Caught*** | ***Species*** | ***Size Largest*** |
|  | 10:00 AM |  | Shells of mussel |  |
|  |  | 14 (in 15 minutes) | Freshwater snails |  |
|  |  |  | worms |  |
|  |  | **Diversity**  | **3 species** |  |
|  | **TOTAL CATCH** | **25** | **TOTAL SPECIES** | **4** |
|  | **Macro- invertebrates** | Blue Crab Pieces | Aquatic Snails |  |
| ***Tides*** | ***Time*** | ***Height in cm*** | ***Rising/Falling*** | ***Rate of change*** |
|  | 10:28 AM |  |  |  |
|  | 10:37 AM |  | Falling | 0.25 cm/min |
|  | 10:51 AM |  | Falling | 0.21 cm/min |
| ***Currents \*\**** | **Time** | **Cm/30 secs** | **Cm/sec** | **Knots** | **N/S Ebb/Fld/Still** |
|  | 10:00AM  | 240 cm | 8cm/sec |  | S- Ebb – |
|  | 10:10AM | 120 | 4cm/sec |  | S Ebb  |
| Nothing – the tide is low – normal obstructions are clear |
| ***Traffic*** | None observed |  |  |  |
| ***Other Items*** | Gulls, crows, and sandpipers |
| ***Almanac*** | We postponed from a potential thunderstorm to a day of drizzle. Our students felt they earned the badge of effort as they collected data in the chilly rain. Happy cheers arose upon finding snails, watching sandpipers and collecting good “currents” data. Our highlight was a successful core sample. An amazing, good, day. |