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

**(Saltfront ~RM 83)**

**RIVER MILE 145.5**

**Karen Strong, Sean Madden NYDEC HREP, Corning Preserve, Albany Boat Basin, Albany (and DEC Commissioner Martens)**

**Deanna Carras, Natalie Aiello, Montessori Magnet School, 4th grade, 45 students, 10 adults**

**Latitude 43 Longitude 74**

**Location:** Floating dock at riverfront park

**Area:** A path along the beach with rising forested hills, trees along both sides, plants along shore, bridges and boats. Dock on the shore, 2-3 pipes going into the water

**Surrounding Land Use:**  70% Industrial/commercial; 25% Urban/Residential, 5% Park – used for fishing, jogging, boating

**Sampling Site:** vegetation, banks altered, shoreline with riprap – floating dock, concrete bulkhead

**Plants:** no plants in water. Along shoreline cottonwood and maple trees.

**River Bottom:** muddy

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 9:38 AM | | 16.6 °C |  |  |
| Wind Speed | 9:38 AM | | 0 mph |  |  |
| Cloud Cover | Mostly cloudy | |  |  | |
| Weather today | No rain | | | | |
| Weather recently | Warm and dry | | | | |
| ***Water calm*** | calm |  | |  |  |
| ***Water Temperature*** | 10:35 AM | 17°C | | Water depth 13 cm |  |
| ***Turbidity – long site tube*** | 10:05AM | 120 cm | | Water fairly clear |  |
| ***Chemical*** |  |  | |  |  |
| DO | 10:48 AM | 10 mg/L | | 17°C | 100% |
| pH – color match | 10:00 AM | 7.8 | |  |  |
| Salinity - quantab | 10;55 AM | 1.2 quantab reading | | 46 ppm Cl- | 83 ppm Total Salinity |
| ***Fish Catch***  *Seine 20 ft. X 3 ft i* | ***Number Caught*** | ***Species*** | | ***Length*** | ***Seine*** |
|  | 1 | Striped Bass | | 10 cm | **Diversity 5** |
|  | 3 | Banded Killifish | | 6 cm | **Total Catch 14** |
|  | 8 | Brook Silverside | | 9 cm |  |
|  | 1 | Yellow perch | | 20 ppm |  |
|  | 1 | Pumpkinseed | | 4 cm |  |
| ***Tides*** | NR |  | |  |  |
| ***Currents –*** | ***Time*** | ***Secs. in 762 cms*** | | ***cm/sec*** | ***Average*** |
|  | 9:52 AM | 24.21secs. | | 32 cm/sec |  |