**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 |  |