**Day in the Life of the Hudson River 10/20/15 Data**

**RIVER MILE 145**

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

**Natalie Aiello, Montessori Magnet School, 4th grade, 45 students, 8 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

**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 | NR |  |  |  |
| Wind Speed | NR |  |  |  |
| Cloud Cover | NR |  |  |
| Weather today | clear |
| Weather recently | cool |
| ***Water calm*** |  |  |  |  |
| ***Water Temperature*** | 1:11 PM | 13°C54 ° F | Samples in shade |  |
| ***Turbidity – long site tube*** | 11:30 AM | 120 cm120 cm | Average 120 cm (sample at dock)  | Water in channel of river is turbid but as dock it is not |
| ***Chemical*** |  |  |  |  |
| DO  | 1:22 PM | 8 mg/L | 13°C | 75% |
|  |  |  |  |  |
| pH –  | 1:18 PM | 7.7 |  |  |
| Salinity - quantab | 1:14 PM | 0.8 quantab reading  | Below Detection  | \*readings start at 1.2 |
| ***Fish Catch****Seine 20 ft. X 3 ft i* | ***Number Caught*** | ***Species*** | ***Length*** | ***Seine***  |
|  | 2 | Spottail Shiner | 7.5 cm | **Diversity 3** |
|  | 1 | Banded Killifish | 7.5 cm | **Total Catch 4** |
|  | 1 | Herring | 3 cm |  |
| ***Tides***  | 10:09 AM | Set stick |  |  |
|  | 13:38 PM | Low tide |  |  |
| ***Currents –***  | ***Time*** | ***Secs. in 762 cms***  |  ***cm/sec*** | ***Average*** |
|  | 11:06 AM  | 40 secs. | 19cm/sec | 20 cm/sec |
|  |  | 37 secs | 20.6cm/sec |  |
|  |  | 38 secs | 20cm/sec |  |
| ***Other Observations*** | Little brown bird off path, Asian bittersweet vine (non-native) – Patroon Creek tributary enters the river, highway close to river. In the water there are leaves, sand and sticks |