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

**RIVER MILE 43.5**

**(Salt Front ~ RM 83)**

**Riverfront Green, Peekskill, Westchester**

**Michael Billy, Walter Panas High School - 24 students, 11-12th grade APES, 2 adult**

**Latitude N 41°17’11” Longitude W 73°55’50"**

**Location:** Riverfront Green, Peekskill, Westchester County

**Area:** Grassy, park area with beachfront, pier, sandy beachfront, used for picnics, boating and fishing

**Surrounding Land Use:** 50 % grassy park;40% industrial/commercial; 10% beach

**Sampling Site:** beach with brick, charcoal, slag and concrete bulkhead. Shoreline 20% sandy and 80% rocky

**Water depth**: 2 ft.

**River Bottom** – rocky

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | NR |  |  |  |
| Wind Speed | NR |  |  |  |
| Cloud Cover | NR |  |  |  |
| Weather today | overcast  |
| Weather recently | Unseasonably warm  |
| ***Water Surface*** |  |  |  |  |
| ***Water Temperature –***  |  AM | 13 °C |  |  |
| ***Turbidity –***  | AM | Long site tube | 90 cm |  |
|  | AM  | Secchi | 90 cm |  |
| ***Chemical*** |  |  |  |  |
| DO (Hach drop kits) | AM  | 10 mg/l | 13°C | 90 % saturated |
| pH – color match test kit | 12:00 PM | 7.6 |  |  |
| Salinity -Quantabs HR | 12:00 PM | High range 7.8 | 3641 ppm Cl- | 6577 ppm Total Salinity |
| ***Fish Catch- Noon***  | ***Number Caught*** | ***Species*** | ***Length*** | ***Diversity/ Totals*** |
| 12:45 PM 20 ft. net X 4ft. | 4 | White Perch |  | **Haul #1 Diversity 4** |
| 3 hauls but kept fish between | 1 | Spottail Shiner |  | **Total Catch 41** |
|  | 16 | Striped Bass |  |  |
|  | 20  | Atlantic Silversides |  |  |
|  | 1 | Striped Bass |  | **Haul #2****Diversity 3** |
|  | 2 | Atlantic Silversides |  | **Total Catch 18** |
|  | 15 | mummichogs |  |  |
|  | 2 | White Perch |  | **Haul #3 Diversity 4** |
|  | 6 | Spottail Shiner |  | **Total Catch 14** |
|  | 5 | Striped Bass |  |  |
|  | 1 | Atlantic Silversides |  |  |
| ***Full Catch***  | **Diversity 5** | **Total Catch 73** |  |  |