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

**RIVER MILE 61W**

**Newburgh Rowing Club, Newburgh, Orange County**

**Suparna Bhalla and Mount St. Mary’s Students and faculty 51 total**

**San Miguel Academy Middle School, 39 students 6th and 7th graders**

****

**Location:** Newburgh Rowing Club in Newburgh

**Area:** Pier and parking lot

**Surrounding Land Use:** 100% Industrial/commercial

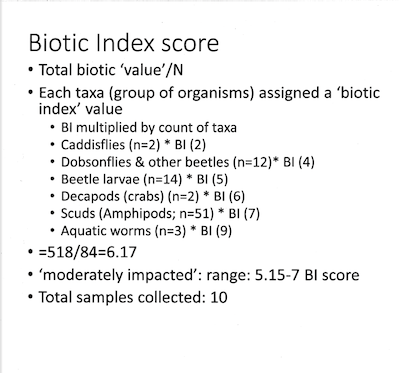
**Shoreline:** 50% sandy and 50% rocky comprising 30% beach, 40% riprap and 30% wood bulkhead

**Water sampling area:** 100% sandy bottom

**Plants in water area:** none

**Water:** Choppy

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 1:00PM  2:00 PM  3:00 PM | | 19°C  22  23 | Average 21.7°C |  |
| Wind Speed |  | |  |  |  |
| Cloud Cover | Clear | | <25% |  | |
| Weather today | No rain | | | | |
| Weather recently | Cold frost at night | | | | |
| ***Water Temperature-***  ***Direct sun @ shoreline*** | 1:00 PM  2:00 PM  3:00 PM | 17.3°C  17.1  17.5 | | Average 17.2°C |  |
| ***Water calm*** | yes |  | |  |  |
| ***Turbidity -***  Short site tube | 1-3PM | 22 JTU | |  |  |
| ***Conductivity*** | 1-3PM | 0.74 ug/L | |  |  |
| ***Chemical*** |  |  | |  |  |
| DO  meter | 1-3:00 PM | 10.11 ppm | | 17°C | 108% |
| pH – meter | 1-3PM | 6.2 | |  |  |
| Salinity - meter | 1-3:00 PM | 296 ppm | | average |  |
| Nitrate - meter | 1-3PM | 0 ppm | |  |  |
| Phosphate - meter | 1-3PM | 0.6 ppm | |  |  |
| ***Fish Catch-***  *1-3 PM* | ***Number –***  45 | ***Species –***  Spottail shiner | | ***Length Lgst***  5 cm | ***Diversity/Total Catch*** |
| *5 hauls – DEC (large net)* | 10 | Tessellated Darter | | 2 | **Diversity 9** |
| *4 hauls MSMC*  *small net* | 1 | Carp | | 15 | **Total Fish Catch 85** |
| *Results mixed* | 3 | Shad | | 9 |  |
|  | 6 | Striped Bass | | 6 |  |
|  | 14 | River Herring | | 9 |  |
|  | 4 | White Perch | | 17 |  |
|  | 1 | Hog Choker | | 2 |  |
|  | 1 | Atlantic Silverside | | NR |  |
| ***INVERTBRATES*** | 17 | Blue Crab | | NR | **Total Diversity** **1**  **Total Count 1** |
| ***Tides*** |  |  | |  |  |
| ***Currents*** | 1:00 -3:00PM | 4.76 cm/s | | average |  |

******