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

**RIVER MILE 61E**

**Riverfront Park, City of Beacon, Dutchess County**

**Scenic Hudson**

**Leah Horn, Haldane Middle School, 7h grade (30), 5 adults**

**Latitude 41°30’ Longitude 73°55’**

 **Location:** Long Dock Park, Beacon, Dutchess County NY

**Area:** Long Dock Park - A former brownfield now public park used for fishing, launching kayaks, picnics, fieldtrips, enjoying scenic views of the Hudson River, Hudson Highlands and Hudson Valley. Most of the shoreline on the south side is lined with trees.

**Surrounding Land Use:** 25% forest, 15% beach, 60% other

**Sampling Site:** beach area rocky with lots of sand, water chestnut and grass

**Plants in water:** water chestnut

**Bottom Surface:** muddy, rocky bottom

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading***  | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 10:05AM10:30AM1:00 PM1:30 PM | 14°C141620 |  |  |
| Wind Speed | 10:05AM10:30AM1:00 PM1:30 PM | Beaufort#3Beaufort#2Beaufort#3Beaufort#4 |  | Partly cloudy Partly cloudy Partly cloudy Partly cloudy  |
| Cloud Cover | overcast |  |  |  |
| Weather today | Some light rain throughout the day |
| Weather recently | Cool and fall like – rain off and on  |
| ***water***  | Choppy, rough and cold |  |
| ***Water Temperature*** | **Time** | **Test one** |  |  |
|  | 9:40AM10:20 AM11:40 AM12:24 PM | 15°C15.61616.3 |  |  |
| ***Turbidity***  | **Time** | **NTU** | **cm** |  |
| ***long site tube converted NTU to cm*** | 9:40AM10:20 AM11:40 AM12:24 PM | 20141950 | 33 cm42 cm35 cm15 cm |  |
| ***Chemical*** | ***Time*** | ***DO*** | ***Temp*** | ***Saturation*** |
| DO (drop kit) | 10:05AM10:30AM1:00 PM1:30 PM | 8 ppm12 ppm10 ppm11 ppm | 15°C171515 | 80%120% 98%110% |
| pH – ***color match(Hach)*** | 10:05AM10:30AM1:00 PM1:30 PM | 7.47.27.57.5 |  |  |
| Salinity – Quantab LR | 10:05AM10:30AM1:00 PM1:30 PM | 158 ppm Chl-16217676 | 285 TS293318137 | TS = Total Salinity(falling tide) |
| ***Fish Catch****seine 30 feet* | ***Number Caught*** | ***Species*** | ***Size of largest*** |  |
|  | 2 | Striped Bass |  | **Diversity -10** |
|  | 1 | American Eel | 30 cm | **Total Catch -79** |
|  | 1 | Blueback Herring | 9.5 cm |  |
|  | 3 | Spottail Shiner | 12 cm |  |
|  | 11 | White Perch | 14 cm |  |
|  | 1 | Banded Killifish | 11 cm |  |
|  | 3 | Pumpkinseed  | 18 cm |  |
|  | 25 | Bay Anchovy | 10 cm |  |
|  | 2 | Atlantic Silversides | 9 cm |  |
|  | 30  | Herring |  |  |
| ***Tides*** | 10:05AM10:30AM1:00 PM1:30 PM | 12 inches8 inches7 inches5 inches\* | **Falling the whole time of sampling** |
| ***Currents –***  | 10:05AM10:30AM1:00 PM1:30 PM | 0.2 ft/sec0.4 ft./secstill | 6 cm/sec12 cm/sec |  |
| ***Sediment Core***  | **Length - describe** | **Rare** | **Common** | **Abundant** |
| ***Shipping*** |  |  |  |