**Day in the Life of the Hudson River 10/16/15 Data**

**RIVER MILE 36**

**Riverfront Park, Stony Point Marina, Stony Point, Rockland**

**Jeanne Maguire, RCC Environmental Science Students through North Rockland HS – 28 students, 5 adults**

**Latitude N 41.224 - Longitude W 73.963**

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***Sampling Map***

**Location:** Stony Point Marina Riverfront Park, City of Stony Point in Rockland County

**Area:** Located along the side of the road at the south end of the marina – Forested in the wider area, Pier, Grassy, Parking Lot

**Surrounding Land Use:** 30% urban/residential, 40% Industrial/commercial, 20% beach and 10% forested

**Sampling Site:** Some beach and rip rap edges.

**Shoreline:** Sandy, muddy, but very rocky

**Plants in area:** No plants in the water but chestnut seed pods found on the shoreline

**River Bottom** – muddy, sandy, rocky

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 10:19 AM10:36 AM11:35 AM | 54 F54 F55 F | 12.2 C12.2 C12.78 C |  |
| Wind Speed | NR |  |  |  |
| Cloud Cover | 10-12:00 PM | Partly Cloudy  | 26-50% |  |
| Weather today | No rain |
| Weather recently |  No rain – cool  |
| ***Water Surface*** | Calm & cloudy |  |  |  |
| ***Water*** ***Temperature***  | 10:00 AM | 0.5 ft. deep in shade – water shaded by plants | 16oC |  |
| ***Turbidity –*** Transparency tube | 11:30 AM | 16.2 cm 16.515 | Average 15.9 cm | Water was very turbid – sand & dirt in it |
| ***Chemical*** |  |  |  |  |
| DO  | 11:40 AM  | 17 oC16 | 12 ppm9 ppm | 100%90%Saturation |
| pHIndicator solution | 9:55 AM10:13 AM10:15 AM | 7.27.47.3 |  |  |
| Salinity – High Rangequantabs | 12:10 PM | 6.6 units | 2161 mg/L chloride  | 3904 Total Salinity |
| Conductivity |  | 6451 uS | 6430 uS |  |
| ***Fish Catch- 9:40-12:15 AM*** | ***Number Caught*** | ***Species*** | ***Size of largest***  | ***Seine***  |
| 24 ft net X 4ft–  | 4 | Striped Bass | 13 cm |  |
|  | 88 | Atlantic Silversides | 8 cm |  |
|  | 1 | Yellow Perch | 10 cm |  |
|  | 8 | Smallmouth bass | 10 cm |  |
|  | 1 | Hogchoker | 10 cm |  |
| ***Total Catch***  | **102** | ***Total Fish Count***  | ***5*** ***#Species*** |  |
|  |  | ***Invert Seine*** |  |  |
|  | 2 | Blue Crab | 2 M |  |
| ***Total Catch***  | **2** | ***Total Invert Count***  | ***1 #Species*** |  |
| **Coring**  | Unable to collect – sediment corer broke  |  |
| ***Tides*** | 10:14 | 4 cm |  |  |
| 10:30 | 15 cm |  |  |
| 10:58 | 25 cm |  |  |
| ***Current \**** | **Time** | **Cm/sec** | **Ebb/Flood** |  |
|  |  |  |  |  |
| ***Traffic - commercial*** | **Name** | **Type** | **North/South** | **Loaded/Light** |
| 11:14 AM11:30 AM12:06 PM | Teal/whiteblue/whitewhite/grey | Tug/bargeTugboatbarge/ | NorthboundNorthboundSouthbound | LoadedLoadedLoaded |
| ***Traffic Recreational***  | **Type** | **Nam/color** | **North/South** | **Loaded/Light** |
| 11:10 AM11:30 AM11:30 AM | WhiteWhiteWhite | Fishing boatSpeed boatSpeedboat | SouthNorthSouth | LoadedLightLight |
| **Observations** | Water chestnut seeds, shell pieces, fish carcass, sand and different sized rocks and lots of driftwood.  |
| **Animals** | Wasps, crabs, seagulls and ducks  |