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

**(Salt front ~ RM 83)**

**RIVER MILE 39**

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

**Jeanne Maguire, RCC Environmental Science Students through North Rockland HS – 40 12th grade students, 5 adults**

**Latitude N 41.224 - Longitude W 73.963**

**North Rockland High School**

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**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:** 25% urban/residential, 60% Industrial/commercial, 15% beach

**Sampling Site:** Beach sandy and rocky near shore with rip rap edges.

**Shoreline:** Sandy, muddy, but very rocky with bits of brick and slag

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

**Water Depth:** 3 ft.

**River Bottom** –sandy, little rocky

|  |  |  |  |  |  |  |  |  |
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| ***ITEM*** | ***Time*** | | | ***Reading 1*** | ***Reading 2*** | | ***Comments*** | |
| ***Physical*** |  | | |  |  | |  | |
| Air Temperature | 10:35 AM  12:20 PM | | | 64 F  69 F | 17 C  20 C | |  | |
| Wind Speed | Beaufort 1 | | | 7.1 mph | South | |  | |
| Cloud Cover | 10-12:00 PM | | | Partly Cloudy | 26-50% | | \*cloudiness increased from 9AM to noon | |
| Weather today | No rain | | | | | | | |
| Weather recently | Very warm, clear and no wind | | | | | | | |
| ***Water Surface*** | Calm | |  | |  | | |  |
| ***Water***  ***Temperature*** | 9:55 AM  10:20 AM | | 19.7oC  20.2 oC | | 67 oF  68.5 oF | | |  |
| ***Turbidity –***  Transparency tube | 9:49 AM | | 59 cm  60  47 | | Average  55 cm | | |  |
| ***Chemical*** |  | |  | |  | | |  |
| DO | 9:55 AM | | 19.7 oC | | 10 ppm | | | 110%  Saturation |
| pH  color match test kit | 9:00 AM  11:00 AM | | 7.5  7.8  7.5 | |  | | | Average 7.6 |
| Salinity – High Range  quantabs | 10:20 AM  11:00 AM | | 7.6 Quan #  8.0 Quan # | |  | | | 5512 TS  6105 TS |
| ***Fish Catch- 9:40-12:15 AM*** | ***Number Caught*** | | ***Species Fish*** | | ***Size of largest*** | | | ***Seine*** |
| 9 ft net X 4ft– | 8 | | Striped Bass | | 5 cm | | | **DIV 3** |
| 18 seines | 1 | | Atlantic Silversides | | 9 cm | | | **TOTALS 10** |
|  | 1 | | Hogchoker | | 4 cm | | |  |
|  |  | | ***Invert*** | |  | | |  |
|  | 3 | | Blue Crab | | M | | |  |
|  | few | | Mussels | |  | | |  |
|  | many | | Barnacles | |  | | |  |
|  | **DIV 3** | | ***Total Inverts 3+*** | |  | | |  |
| ***Tides*** | | 9:17 AM | 82 cm | | Rising |  | | |
| 9:50 AM | 108 cm | | Rising |  | | |
| 12:20 PM | 89 cm | | Falling |  | | |
| ***Current*** | | **CM/30 sec** | **Cm/sec** | | **Kts** | **Ebb/Flood N/S** | | |
| 9:42 AM | | 91.44 | 3.048 | | 0.06 | N - Flood | | |
| 12:20 PM | | 457.2 | 15.24 | | 0.30 | N - Flood | | |