**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 AM12:20 PM | 64 F69 F | 17 C20 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 AM10:20 AM | 19.7oC20.2 oC | 67 oF68.5 oF |  |
| ***Turbidity –*** Transparency tube | 9:49 AM | 59 cm6047 | Average 55 cm |  |
| ***Chemical*** |  |  |  |  |
| DO  | 9:55 AM  | 19.7 oC | 10 ppm | 110%Saturation |
| pHcolor match test kit | 9:00 AM11:00 AM | 7.57.87.5 |  | Average 7.6 |
| Salinity – High Rangequantabs | 10:20 AM11:00 AM | 7.6 Quan #8.0 Quan # |  | 5512 TS6105 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 |