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

(Salt Front ~RM 80)

**RIVER MILE -1**

**Governor’s Island, Upper NY Bay/Buttermilk Channel**

**Roy Arrezzo - New York Harbor School PM**

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**30 students 10th graders, 2 adults**

**Latitude N 40°41’29” - Longitude W074°01.14’**

**Location:** Pier 101, NE Governor’s Island – Upper NY Bay

**Area:** Pier along waterfront of the island

**Surrounding Land Use:** 100% converted to public access programs (education, boating, recreation)

**Sampling Site:** Pier, shoreline is bulkheaded

**Plants in area:** None

**Water depth**: surface samples

**Times:** Data collected throughout the day

**High Tide**: 12:16 PM – LT 6:02 AM

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |   |  |  |  |
| Air Temperature | 1:20 PM | CF |  |  |
| Wind Speed | 1:20 PM | windy | 8.2 mph | Beaufort #4 |
| Cloud Cover | Overcast >90% | Altostratus and Stratocumulus |  |  |
| Weather today | Cloudy, Mild temperature, chance of showers  |
| Weather recently | cool |
| ***Water depth*** | 5 meters deep  |
| ***Water Temperature*** | 1:20 PM | 19 CF |  |  |
| ***Turbidity – turbidity tube*** | 1:20 PM | 90 cm |  |  |
| ***Chlorophyll***  | 0.3  |  |  |  |
| ***Chemical*** |  |  |  |  |
| DO (chemmet kit) | 1:20 PM | 5.7 mg/L | 19 C | 60% saturation |
| pH – Lamotte wide range pH kit | 1:20 AM | 7.8 |  |  |
| Salinity(Refractometer) | 1:20 PM | 27 ppt |  |  |
| ***Tides*** | HT 12:16 PM | Flooding end SLACK |  |  |
| ***Currents*** | NE | Ebbing | 6 kts |  |
| ***Organisms – oyster traps*** | Mud crabs | Green crabs | Blue Crab | Oyster drills |
|  | Oyster toad fish  | Black fish |  |  |