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

**RIVER MILE -1**

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

**Jeremy Lynch & Roy Arrezzo - New York Harbor School**

**32 students 9th graders, 4 adults**

**Latitude N 40°41’29” - Longitude W074°1.14’**

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**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**: 1:54 PM – LT 7:59 AM

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| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 1:30 PM | | C  F |  |  |
| Wind Speed | windy | | 8 mph | Beaufort #1 |  |
| Cloud Cover | Clear <25% | | Cirrostratus and Haze | Isolated clouds |  |
| Weather today | Sunny mild temperatures | | | | |
| Weather recently | cool | | | | |
| ***Water depth*** | 6 meters deep | | | | |
| ***Water Temperature*** |  | 17 C  F | |  |  |
| ***Turbidity – turbidity tube*** |  | 93 cm | |  |  |
| ***Chlorophyll*** | 0.3 |  | |  |  |
| ***Chemical*** |  |  | |  |  |
| DO  (chemmet kit) |  | 8 mg/L | | 17 C | 80% saturation |
| pH – Lamotte colormetric |  | 7.5 | |  |  |
| Salinity  (Refractometer) |  | 29 ppt | |  |  |
| ***Tides*** |  | HT 1:54 PM | |  |  |
| ***Currents*** | 1:30 PM | SLACK | | 1.8 kt |  |
| ***Organisms – oyster traps*** | Mud crabs | Green crabs | | Oyster drills | Black fish |
|  | Oyster toad fish |  | |  |  |