Day in the Life of the Hudson River 10/16/14 Data

(Salt Front RM 65.9)

**RIVER MILE -1**

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

**Sam Janis - New York Harbor School**

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

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

**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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 10:15 AM | | C  F |  |  |
| Wind Speed | windy | | 8 mph |  |  |
| Cloud Cover | Cloudy | | Stratus clouds100% |  |  |
| Weather today | Humid, wet, gloomy | | | | |
| Weather recently | Humid | | | | |
| ***Water surface*** | Sample from surface | | | | |
| ***Water Temperature*** |  | 17 C | |  |  |
| ***Turbidity – turbidity tube*** |  | 80 cm  45  45 | | 56.6 ***average*** |  |
|  |  |  | |  |  |
| ***Chemical*** |  |  | |  |  |
| DO  (chemmet kit) | 20C  20C  17C | 6 mg/L  3  7 | | 19 C  5.3 ***average*** | 55% saturation |
| pH – Lamotte colormetric |  | 7.5  5  6 | | 6.83 ***average*** |  |
| Salinity  (Hydrometer) |  | 26 ppt  25  25 | | 25.3 ***average*** |  |
| ***Tides*** |  | HT 3:24 PM | | LT 9:20 AM |  |
| ***Currents*** | 10:15 AM | South | | 1.0 kt |  |