**Day in the Life of the Hudson River 10/21/14**

**(Salt Front RM 65.3)**

**East River, Gantry Plaza at Newtown Creek**

**Mary Mathai, Hunters Point Community MS 7th graders**

**Uzma Shah, Baruch College Campus High School 12th grade,**

**125 students, 6 adults**

**Kim Estes-Fradis, New York City Department of Environmental Protection**

**Location:** East River, Gantry Plaza State Park, Long Island City, Queens

**Surrounding Land Use:** Urban 80%; Grassy 15%; Rocky Shoreline 5%

**Sampling Site:** Shoreline is rocky with some plants and has piers and piping entering river

**Plants in area:** A few trees and tall grasses.

**Sample Time:** 10 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 10:00 AM | | 16°C |  |  |
| Wind Speed | 10:00 AM | |  | NW |  |
| Cloud Cover | 10:00 AM | | Mostly Cloudy | No rain |  |
| Weather last 3 days | Rainy and cold | | | | |
| ***Water Temperature*** | 10:30 AM | 27°C | |  |  |
| ***Turbidity***  Sight Tube | 10:30 AM | 81.5 cm | |  |  |
| ***Chlorophyll*** | 10:30 AM | 0.1 | |  |  |
| ***Chemical*** |  |  | |  |  |
| DO  (CHEMetrics ampules) | 10:52 AM | 27°C | | 6 ppm | 70 % |
| pH (test strips) | 10:30 AM | 5-6 | |  |  |
| Salinity  (Hydrometer) | 10:30 AM | 22 ppt | |  |  |
| ***Tides –***  *HT ~8AM per NOAA charts* | 11:04 AM  73 cm | 11:32 AM  84 cm | | 11 cm/28 mins OR  0.007 cm/sec | Ebbing |
| ***Currents*** | 10:00 AM | 360 inches/36 secs. | | 10inches/sec | 25.4 cm/sec |