**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 AM73 cm | 11:32 AM84 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 |