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

**EAST RIVER MILE 4.5**

**East River, Hunter’s Point, Long Island City, NY**

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

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

**50 students, 5 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 | 10:10 AM  10:32 AM  10:57 AM  11:19 AM  11:40 AM | | 13°C  12°C  13°C  13°C  15°C |  |  |
| Wind Speed | 10:10 AM  10:32 AM  10:57 AM  11:19 AM  11:40 AM | | 18 mph  13-18 mph  13-18 mph  25-31 mph  4-7 mph |  |  |
| Cloud Cover | 10:10 AM  10:32 AM  10:57 AM  11:19 AM  11:40 AM | | 65 %  50 %  50 %  25 %  25 % |  |  |
| Weather last 3 days | No rain today and cool last few days | | | | |
| ***Water Temperature*** | 10:09 AM  10:30 AM  11:00 AM  11:28 AM  11:47 AM | 15°C  13°C  12°C  14°C  13°C | |  |  |
| ***Turbidity***  Sight Tube | 10:15 AM  10:35 AM  10:57 AM  11:22 AM  11:42 AM | 48 cm  47.5 cm  49 cm  48 cm  43 cm | | Clear  Clear  Clear  Clear  Clear |  |
| ***Chlorophyll*** | 10:25 AM  10:44 AM  11:04 AM  11:26 AM  11:50 AM | 1.0  0.6  0.3  0.3  0.5 | |  |  |
| ***Chemical*** |  |  | |  |  |
| DO  (CHEMetrics ampules) | 10:09 AM  10:30 AM  11:00 AM  11:28 AM  11:47 AM | 15°C  13°C  12°C  14°C  13°C | | 7 ppm  8 ppm  7 ppm  6 ppm  6 ppm | 65 %  75 %  65 %  60 %  55 % |
| pH (test strips) | 10:14 AM  10:45 AM  11:02 AM  11:34 AM  11:53 AM | 6  7-8  7  7-8  7-8 | |  |  |
| Salinity  (Hydrometer) | 10:14 AM  10:45 AM  11:02 AM  11:34 AM  11:53 AM | 24 ppt  24 ppt  22 ppt  22 ppt  22 ppt | |  |  |
| ***Tides –*** | 10:10 AM  10:32 AM  10:57 AM  11:19 AM  11:40 AM | Rising  Stay same  Stay same  Rising  Rising | |  |  |
| ***Currents*** | 10:10 AM  10:32 AM  10:57 AM  11:19 AM  11:40 AM | 28 cm /sec  34 cm/sec  32 cm/sec  34 cm/sec  36 cm/sec | |  |  |