**A Day in the Life of the Hudson River 10/20/16 Data**

**(Salt Front ~HR RM 80)**

**RIVER MILE East River 1**

**Janet Villas, Brooklyn Friends School, 47 eight graders, and 5 adults**

**Isa Del Bello and staff from the Brooklyn Bridge Conservancy**

**Latitude 40.704546 – Longitude 73.988771**

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**Location:** East River**, s**outh of the Manhattan Bridge @ the new Brooklyn Bridge Park, Dumbo Section

**Area**: 100% Urban residential, Park

**Surrounding Land Use:** pier, grassy

**Sampling Site:** Sandy beach and riprap, rocky

**Plants in area:** no plants noted in water

**Water depth**:

**River Bottom**: Sandy

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| --- | --- | --- | --- | --- |
| ***ITEM*** | ***TIME*** | ***10/16/14 Data*** | ***TIME*** | ***10/20/14 Data*** |
| ***Physical*** |  |  |  |  |
| Air Temperature | 8:50 AM | 20 °C  18.5°C | 68°F  65°F | 19.25°C Avg  66.5°F |
| Wind Speed | Beaufort 2 |  |  |  |
| Cloud Cover | Mostly Cloudy 51-75% |  |  |  |
| Weather today | cloudy |  |  |  |
| Weather last 3 days | Dry, dry and hot | | | |
| ***Water Surface*** | Choppy |  |  |  |
| ***Water Temp.*** | 8:50 AM | 18.5°C  18.0  18.5 | 18.3°C average | |
| ***Turbidity – secchi*** | 9:10 AM | 100 cm  150 cm  100 cm | 125 cm |  |
| ***Turbidity – long sight tube*** | 9:00 AM | 55 cm  55cm  55cm | 55 cm | Very clear water today |
| ***Chemical*** |  |  |  |  |
| DO -vernier | 9:20 AM | 13.7 ppm | 18.55% |  |
| pH - meter | 8:45 AM | 7.6 |  | 8 |
| Salinity – vernier meter | 8:45 AM  later reading | 20.4 ppt  20.4  20.4  21.3 ppt |  | 20.4 ppt |
| Nitrates | 9:15 AM | 1.0  1.0  1.0 | 1.0 ppm |  |
| ***Fish*** | 1 | Small bluefish | 10 cm |  |
| ***Tides*** | 8:50 AM | Coming in |  |  |
| ***Currents*** | 8:50 AM | NY harbor – | very busy and very deep so not collected |  |
| ***Boats*** | So many boats! Ferries, boats, big and small! Way to many to count!!! | | | |
| ***Other Items*** | Oyster cage had blue mussels in it. | | | |