**A Day in the Life of the Hudson River 10/10/13 Data**

**(Salt Front RM 69.3)**

**RIVER MILE East River 1 East – Empire Fulton Ferry**

**Isa Del Bello, Brooklyn Bridge Park Conservancy & Kathy Nolan, St. Frances College**

**PS8 & MS447 Schools (District 13 & 15) - 15 5th-7th graders & 4 adults**

**40.704506 N – -73.988371 W**

**Location:** South of the Manhattan Bridge @ Brooklyn Bridge Park

**Area:** 100%Urban/residential, 15% beach

**Surrounding Land Use:** Urban residential 89%, Beach 1%, Industrial/Commercial 10%

**Sampling Site:** Beach area, sandy shoreline with rip rap, bulkhead, banks altered, piping entering river, brick, slag, charcoal on ground

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

**Water depth**:

**River Bottom** –sandy/rocky in parts, muddy in parts – lots of debris

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 4:30 PM | | 14.4°C  58 °F | 5:30 PM | 14.4°C  58 °F |
| Wind Speed | Beaufort 4 | | 9 mph |  |  |
| Cloud Cover | overcast | |  |  |  |
| Weather today | Cloudy no precipitation | | | | |
| Weather last 3 days | Mild with temps. Between 58 and 68 degrees °F | | | | |
| ***Water Surface*** | Choppy |  | |  |  |
| ***Water Temp.*** | 5:05 PM | 18.5°C  65.3 °F | | 18.4°C  65.12 °F |  |
|  | 5:30 PM | 18.6°C  65.48 °F | | 18.4°C  65.12 °F |  |
| ***Turbidity – site tube*** | 5:30 PM | 91 cm | |  |  |
| ***Chlorophyll*** |  |  | |  |  |
| ***Chemical*** |  |  | |  |  |
| DO - tablet | 4:25 PM | 18.5 °C | | 4.0 mg/L | 40% saturation |
| pH – meter | 5:22 PM | 7  5  7 | |  | Average 6.33 |
| Salinity – hydrometer | 4:43 PM | 25 ppt X 3 | |  |  |
| ***Fish Catch – seine 20 ft.X4ft. 3/16 mesh*** | 4:35 PM  Seine#2 | Atlantic Silverside | | 1 | 9.5 cm |
| ***20 ft pulls X4 times*** | 4:35 PM Seine #4 | Atlantic Silverside | | 1 | 8 cm |
| ***Minnow trap*** | **DIVERSITY** | **1** | | **TOTALS** | **2** |
|  | **Macros** | Ctenophores (Comb Jellies) | | **MANY** |  |
| ***Tides*** | 4:30 PM | 0 cm | | Falling |  |
| ***Currents*** |  |  | |  |  |
| ***Other Items*** |  |  | |  |  |
| ***Core Description*** | *Length* | *Abundant* | | *Rare* | *No H2S smell* |
| ***Shipping*** | 4:30 PM | FDNY Boat | | Northbound | Loaded |
|  | 4:42 PM | Container Ship | | Southbound | Light |
|  | 5:03 PM | Water Taxi | | Northbound |  |
| ***Observations*** |  | | | | |