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

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

**RIVER MILE East River 2.3– Cut out at Pier 5, Brooklyn Bridge Park**

**Christina Tobitsch, Brooklyn Bridge Park Conservancy &**

**St. Frances Afterschool Program - 12 - 6th graders & 3 adults**

**40**°**41’41.5” N – -74**°**.00’0.17” W**

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**Location:** Pier 5 of Brooklyn Bridge Park**,** south of the Manhattan Bridge and south of the boat marina and in front o the soccer field.

**Area:** Developed set of piers

**Surrounding Land Use:** Urban residential and park land

**Sampling Site:** Rocky shoreline, rip rap

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

**Water depth**:

**River Bottom** –unknown

**Plants in area** – Some algae collected in plankton tows and fish traps

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |   |  |  |  |
| Air Temperature | 4:43 PM | 21°C70 °F | 4:47 PM | 21.5°F71 °F |
| Wind Speed | 4:45 PM | Beaufort 2 |  |  |
| Cloud Cover | 4:46 PM  | overcast |  |  |
| Weather today | Quick drizzle at 5PM |
| Weather last 3 days | Warm and dry, yesterday abnormally hot! |
| ***Water Surface*** | Choppy |  |  |  |
| ***Water Temp.*** | 4:50 PM | 20°C |  |  |
|  | 5:30 PM | 18.6°C65.48 °F | 18.4°C65.12 °F |  |
| ***Turbidity – site tube*** | 5:00 PM | >60 cm |  | Tube was only 60 cm |
| ***Chemical*** |  |  |  |  |
| DO – tablet (LaMotte test kit) | 5:38PM | 20 C | 5.0 mg/L | 55 % saturated |
| pH – meter | 5:54 PM  | 7 |  |  |
| Salinity – hydrometer | 5:00 PM | 30 ppt |  |  |
| Nitrates LaMotte | 5:51 PM | 3 ppm |  |  |
| Phosphates LaMotte | 5:48 PM | 2 ppm |  |  |
| Ammonia  | 5:53 pm | 1 ppm |  |  |
| ***MacroCatch – 2 minnow traps and 2 oyster cages*** | Tube wormGolden Star Tunicate | 6NR |  | **DIV – 5****TOTALS – unable to specify** |
|  | Sea Squirts | many |  |  |
|  | Blue mussel  | 1 | 1.5 cm |  |
|  | Mud crabs | 3 | <3cm | 1 M, 1 F, 1 unknown |
| ***Other Items*** |  |  |  |  |
| ***Shipping- commercial***  | 4:40 PM | Black/White | North | Light |
|  | 4:40 PM | Blue/White | North | Loaded |
| ***Shipping - Recreational*** | 4:42 PM | Water Taxi/Yellow | North | Light |
| ***Observations*** | More trash and debris floating in the water than usual. Very little plankton found under the microscopes, perhaps because of all the debris.Birds – mainly gulls overhead |