**Day in the Life of the Hudson River 10/16/14 Data**

**(Salt Front RM 65.9)**

**RIVER MILE 4**

**Pier 84**

**N 40.76408 W-74.001893**

**Tina Walsh, Carrie Robles and staff, Hudson River Park Trust**

**Christine Kecskemeti and staff, Elias Howe/PS 51 – (52) 4th graders, (10) adults**

**Location:** Pier 84, is an educational pier used for picnics, boating, jogging, fishing

**Area:** Pier – bulkhead – mainly concrete & wood

**Surrounding Land Use:** 60% urban/residential, 40% Industrial/commerical

**Sampling Site:** Recreational pier – rocks near the edge, banks altered – all hard edged

**Depth:** ~12 feet off pier

**Plants in area:** No plants

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Readings*** |  |  |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 12:45 PM  1:30 PM  2:00 PM | | 18.9°C  20°C  21°C |  |  |
| Wind Speed | Not read | |  |  |  |
| Cloud Cover | Not read | |  |  |  |
| Weather today | Wet & rainy!! | |  | ***Water surface*** | Choppy |
| Weather recently | Humid and some rain – tropic storm in the area | | | | |
| ***Water Temperature*** | 1:00 PM  1:30 PM  2:00 PM | 19.5°C  19.3°C  21°C | |  |  |
| ***Turbidity***  ***Turbidity tube*** | 1:00 PM  1:20 PM  1:35 PM  1:45 PM | 36 cm  45,85,37.5,51  38,55,31,61,55  30,51,30.2 | | 36 cm avg  54.6 cm  48 cm  37 cm |  |
| ***Chemical*** | **Time** | **ppm** | | **Temp** | **% Sat** |
| DO  Estuary wide monitoring Kit – | 2:00 PM | 2 | | 19° C | 20% |
| pH  kit as above | 1:00 PM  1:30 X2  1:45 X2  2:00 X6 | 7 for all | | 7 average |  |
| Salinity -hydrometer | 1:00 PM  1:30 PM  1:30 PM  2:00 PM | 16,16,16,16,16  16, 16 ppt  16, 18 ppt  16,19,19,19,18, 19 | | 16 ppt avg  16 ppt  17 ppt  19 ppt |  |
| ***Fish Catch*** | Time | Species | | Size | All caught on line |
| ***Tides (from pier to water)*** | ***Time*** | ***Water Depth*** | | ***Rate of change*** | ***Flood or Ebb*** |
|  | 12:40 PM  2:30 PM | 294 cm  315 cm | | Start point  21 cm | Flooding |
| ***Currents*** | ***Time*** | ***Meter/sec*** | | ***Cm/sec*** | ***Ebb/Flood*** |
|  | 12:30 PM |  | |  | Flooding |
|  | 1:45 PM |  | |  | Flooding |
|  | 2:30 PM |  | |  | Flooding |