**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**

**Lavonne Hunter and staff, Baychester Middle School in the Bronx, 38, - 7th graders, 9 adults**

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**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 Commercial

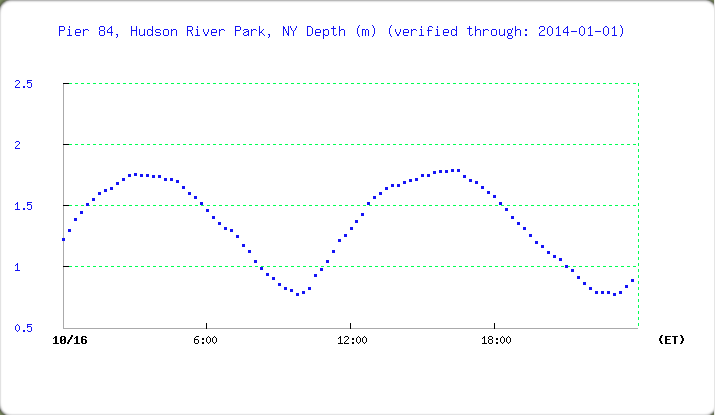
**Sampling Site:** Recreational pier – rocks near the edge, banks altered – all hard edged

**Depth:** ~12 feet off pier

**Plants in area:** No plants

**Water:** Calm

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Readings*** |  |  |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 11:00 AM  11:30 AM  12:00 AM | | 20°C  18.9°C  17.8°C |  |  |
| Wind Speed | 10:30 AM  10:55 AM  11:20 AM  11:45 AM | | Beaufort 3 Beaufort 3  Beaufort 3  Beaufort 3 |  |  |
| Cloud Cover | 10:30 AM  10:55 AM  11:20 AM  11:45 AM | | 100%  100%  100%  100% |  |  |
| Weather today | Rainy | |  | ***Water surface*** | choppy |
| Weather recently | Humid some rain | | | | |
| ***Water Temperature*** | 11:00 AM  11:02 AM  11:30 AM  11:50 AM | 20, 19, 20°C  19°C  20°C  18, 19°C | |  |  |
| ***Turbidity***  ***Turbidity tube – cm*** | 11:15 AM  11:35 AM  11:45 AM  12:15 PM | 30, 43.5, 47,47  30 cm  30, 30 cm  53.5 X 5 | | AVERAGE | 41.75 cm  30 cm  30 cm  53. 5 cm |
| ***Chemical*** | **Time** | **ppm** | | **Temp** | **% Sat** |
| DO  Estuary wide monitoring Kit – | 10:50 AM  10:50 AM | 2  2 | | 18° C  19°C | 20%  20% |
| pH  kit as above | 11:30 AM  11:50 AM | 7  7 | |  |  |
| Salinity -refractometer | 11:50 AM  11:50 AM  11: 50AM | 24 ppt  24 ppt  24 ppt | |  |  |
| Salinity -hydrometer | 11:00 AM  11:05 AM  11:05 AM  11:05 AM  11:05 AM  11:08 AM  11:20 AM | 21.6  19  22  23  21.6  20  20 | | Average | 21 ppt |
| ***Fish Catch*** | Time | Species | | Size | All caught on line |
| ***Hook, line, sinker*** | 10:35 PM | Blue Crab | | 5 inches |  |
| ***Tides - water depth*** | ***Time*** | ***Distance to water*** | | ***Rate of change*** | ***Flood or Ebb*** |
| ***\*HRECOS has much larger rate of change*** | 10:30AM  12:20 PM | 295 cm  305 cm | | Start point  10 cm\* | Flooding |
| ***Currents*** | ***Time*** | ***Meter/sec*** | | ***Cm/sec*** | ***Ebb/Flood*** |
|  | 10:15 AM |  | |  | Flooding |
|  | 10:30 AM |  | |  | Flooding |
|  | 11:00 AM |  | |  | Flooding |
|  | 11:30 AM |  | |  | Flooding |

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