**Day in the Life of the Hudson River 10/04/12 Data**

**RIVER MILE 25E**

**Matthiessen Park, Irvington**

**Philip Levine and Joanna Morabito- Irvington Middle School Sixth Grade (144) and Irvington High School Marine Science Class 23 students, 11/12th graders**

**Latitude 41** ͦ **2’ 30” N Longitude 73** ͦ **52’ 32” W**

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**Area:** Matthiessen Park, Village of Irvington, Westchester County

**Surrounding Land Use:** 40% grass, 10% beach, 5 % forested, 45% river

**Sampling Site**: Matthiessen Park

**Plants:**

**Water Depth**: 4 feet

**River Bottom**: Mud, Sand, Rocks. The further you went out the muddier it got.

**Weather Conditions:** Humid, Warm, Foggy.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | | ***Comments*** |
| ***Physical*** |  | |  |  | |  |
| Air Temperature | 9:15 am  10:23 am | | 22°C | 21°C | |  |
| Wind Speed | 9:30 am | | No wind | No wind | | |
| Cloud Cover | 9:30 am  11:30 am | | 100% | 100% | |  |
| Weather today | Overcast, humid, foggy, muggy, warm. | | | | | |
| Weather recently | Rainy, humid. | | | | | |
| ***Water Surface*** |  |  | | |  |  |
| ***Water Temperature –*** | 10:30 am  8:30 am | 20°CC | | | 18°C |  |
| ***Turbidity –water chemistry test kit*** | 9:55 am  11:35 am | 20JTU | | | 40JTU |  |
| ***Chlorophyll*** | 11:30 AM | 0.5 | | |  |  |
| ***Chemical*** |  |  | | |  |  |
| ***DO***  (drop kits) | 8:30 am  8:51 am | 4 ppm  42% saturation | | | 4 ppm  42% saturation |  |
| pH | 8:30 am  9:35 am | 8 | | | 7 |  |
| Salinity -  meter | 8:48 am  8:30 am | Readings ranged from 6 to 10 ppt collected from 9:30 to 11 a.m. | | | 7 |  |
| ***Fish Catch- 12:00 PM to 1:25 PM*** | ***Number Caught***  ***30***  ***2***  ***4***  ***1***  ***1*** | ***Species***  ***Atlantic Silverside***  ***Striped Bass***  ***Blue Crabs***  ***White Perch***  ***Oyster*** | | | ***Average Length***  ***3 inches***  ***3 inches***  ***2 inches***  ***2 inches***  ***4 inches*** | ***Seine*** |
| **\*Lots of water celery in nets** |  |  | | |  |  |
| ***Tides***  ***R= right tide stick***  ***L = Left tide stick*** | TIME (am)  8:29 R  9:25 R  9:33 L  9:33 R  9:51 L  9:51 R  10:04 R  10:04 L  10:15 L  10:15 R | Water height (cm)  12.5  30.5 (boat wave)  16  24  24  33  39  31  34.5  44 | | | Rise/Fall  RISE |  |
| ***Currents*** | **Time**  **10:30 am**  **11:45 am**  **9:08 am** | **Cm/60 sec**  **11.6**  **22.5** | | | **Cm/sec**  **1.9**  **.375** | **Direction**  **First flowing north**  **Second flowing south** |
| ***Core – 8 cm long*** | **TIME**  **9:45 am** | **Rare**  Coal | | | **Common**  Pebbles and mud | **Abundant**  Sand and gravel |
| ***Traffic*** | 9:30 am | Boat passed, *Columbian Sky* | | |  |  |
| ***Other Items*** | Students’ Hypotheses: For water chemistry majority of the students found results to be close to their predictions. | | | | | |