**Day in the Life of the Hudson River 1010/13 Data**

**(Salt Front RM 69.3)**

**RIVER MILE 145**

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**Karen Strong, Sean Madden NYDEC HREP, Corning Preserve, Albany Boat Basin, Albany (and DEC Commissioner Martens)**

**Natalie Aiello, Montessori Magnet School, 4th grade, 42 students**

**Latitude 43 Longitude 74**

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**Location:** Floating dock at riverfront park

**Area:** A path along the beach with rising forested hills, trees along both sides, plants along shore

**Surrounding Land Use:**  70% Industrail/commercial; 25% Urban/Residential, 5% Park

**Sampling Site:** vegetation, banks altered, shoreline with raprap – floating dock

**Plants:** no plants in water

**River Bottom:** muddy

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 9:43 AM | | ° C  60° F | 12:15 PM | ° C  61° F |
| Wind Speed | 9:43 AM | | Beaufort #1 | 2-2.5 mph | North |
| Cloud Cover | Partly foggy | | overcast |  | |
| Weather today | Overcast no rain | | | | |
| Weather recently | Heavy rain and wind Monday 10/7 | | | | |
| ***Water calm*** | calm |  | |  |  |
| ***Water Temperature*** | 10:55 AM | 18.3°C  65 ° F | |  |  |
|  | 12:20 PM | 16.7°C  62 ° F | |  |  |
|  | 12:38 PM | 17 °C  62.6° F | |  |  |
|  | 1:00 PM | 17 °C  62.6 ° F | |  |  |
| ***Turbidity – long site tube*** | 10:17 AM | 57 cm  79 cm  61 cm | |  | Average 65.6 cm |
| ***Chemical*** |  |  | |  |  |
| DO  (meter) | 10:55 AM | 10 mg/L | | 17°C | 100% |
|  | 1:15 PM | 10 cm/L | | 18°C | 105% |
| pH – indicator solution | 10:37 PM | 7.5 | |  |  |
| Salinity - quantab | 10:50 PM | 30 ppm Cl- | | 54 Total Salinity |  |
| ***Fish Catch***  *Seine 20 ft. X 3 ft i* | ***Number Caught*** | ***Species*** | | ***Length*** | ***Seine*** |
| ***3 seines*** | 7 | Spottail Siner | | 6.5 cm | **Diversity 2** |
| ***9:45AM-12:23PM*** | 4 | Banded Killifish | | 5.5 cm | **Total Catch =11** |
| ***Tides*** | N/R |  | |  |  |
| ***Currents –*** | ***Time*** | ***# Cm in X sec*** | | ***cm/sec*** | ***N/S -***  ***Ebb/Flood/Still*** |
|  | 10:00 AM | 25 ft./37 secs | | 0.01 kts | South - Ebb |
|  | 10:05 AM | 25 ft./16.3 secs | | 0.03 kts | South - Ebb |
|  | 10:08 AM | 25 ft/19 secs | | 0.02 kts | South - Ebb |
|  | 12:30 PM | 25 ft/20.28 secs | | 0.02 kts | South - Ebb |
|  | 1:15 PM | 25 ft./32.9 secs | | 0.01 kts | South – Ebb |
| ***Shipping*** | 10:00 AM | Tugboat | | Margot | South/ Loaded |
|  | 1:00 PM | Tugboat | |  | North/ Loaded |
|  | 1:00 PM | Cruise | |  | South |