**Snapshot Day 10/20/15 Data**

**Bronx RM8.5**

**Concrete Plant Park, Bronx, NY**

**Kathalene Lamboy, Bronx River Alliance**

**Patrick Callahan, Bronx Center for Science & Math**

**22 students, 10-12th graders, 2 adults**

**40.825506 Lat & -73.884777 Lon**

**Location:** Concrete plant, Bronx River

**Area:** Forested bank, grassy area with concrete bike path

**Surrounding Land Use:** 32% Urban/Residential, 2% forested, 60% Industrial/Commercial, 5% lawn/vegetation

**Sampling Site:** No plants in water, trash around

**River Bottom:** Muddy, Weedy, Rocky

**Plants in area:** Tree of Heaven (invasive)**,** yHickory

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time –*** | | ***Reading 1*** | ***Reading 2*** | ***Reading 3*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 9:49 AM  9:51 AM  9:53 AM  11:30 AM | | 16°C  16°C  15°C  15°C |  |  |
| Wind Speed | 9:58 AM  1:32 AM | | #2  #2 | Southerly |  |
| Cloud Cover | 9:58 AM | | 51-75% (60%) |  |  |
| Weather today | No rain | |  | | |
| Weather last 3 days | Cool | |  | | |
| ***Water Condition*** | Calm | | | | |
| ***Water Temperature*** | 9.58 AM | 12°C | |  |  |
| ***Turbidity***  ***secchi*** | 10:46 AM | 85.2 cm  86 cm  81.4 cm | | Average 84.2 cm |  |
|  | 11:20 AM | 99.2 cm  65 cm  88.1 cm | | 84.1 cm |  |
| ***Chemical*** |  |  | |  |  |
| DO  (drop count kit) | 10:34 AM  10:58  11:07  11:16 | 8 ppm  7.1  7.5  6.1 | | 13°C | 75% satur.  65%  70%  55% |
| pH | 10:19 AM  10:21 AM  10:23 AM  10:26 AM | 5 X 3  5 X 3  5 X 3  5 X 3 | |  | 4 |
| Salinity - hydrometer | Reading 1 ppt | Reading 2 ppt | | Reading 3 ppt | Average – ppt |
| 10:32 AM | 9.7 | 11 | | 7.1 | 9.3 ppt |
| 10:35 AM | 14.9 | 11.1 | | 11.1 | 12.4 ppt |
| 10:26AM | 10.9 | 7.5 | | 7.5 | 8.6 ppt |
| 10:28 AM | 11.1 | 7.6 | | 12.4 | 10.4 ppt |
| NR time | 11.1 | 8.8 | | 10.1 | 10.0 ppt |
| ***Fish Catch*** | **Total** | **Fish** | |  | **3-4 seines** |
| ***Div – 4***  ***Total Catch - 23*** | 1 | Mummichogs | | Reported as 1 banded and 11 striped – not possible so used key descriptions to work back to this. | |
|  | 11 | Banded Killi | |
|  | 10 | Atlantic Silversides | |  |  |
|  | 1 | Bay Anchovy | |  |  |
| ***Macro - Div – 1***  ***Total Catch - 9*** | 9 | Glass shrimp | |  |  |
| ***Tides*** | 9:42 AM | Water height -1.2 cm | |  |  |
| ***Currents - Time*** | ***Cm/30 secs*** | ***Cm/sec*** | | ***Kts*** | ***E/F/S*** |
| 11:38 AM | 458 | 15.25 | | 0.3 | Ebb |
| 11:47 AM | 610 | 20.3 | | 0.4 | Ebb |
| 11:51 AM | 610 | 20.3 | | 0.4 | Ebb |
| ***Ships*** | 10:25 AM | White rec. vessel | | Southbound | 6 people on it |
| ***Other Observations*** | Seagulls, Atlantic menhaden, cormorant, boatsman insects, dragon fly, mute swan, mussel shells | | | | |