**Snapshot Day 10/20/16 Data**

**RIVER MILE 40**

**George’s Island County Park, Montrose**

**Alethea Lynch, Fox Meadow Elementary**

**80 – 3rd grade students, 20 adults**

**Latitude 41**°**14’N Longitude 73°56’40”W**

**Location:** Waterfront park in Westchester County Park

**Area:** Shoreline is rocky with brick pieces, forested, grassy with parking area

**Surrounding Land Use:** Park picnic area & boat launch – Park 70%, Industrial/Commercial 30%

**Sampling Site:** Beach, Rip Rap and Concrete Bulkhead

**Plants in area:** none listed

**Water depth**:

**River Bottom** – muddy

\*The kit we used for DO was a Lamotte Estuary kit. I am not sure what happened there- it was very low compared to last year. We did use a plastic hydrometer- we must have read the wrong side- sorry!

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** |  | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | ***Reading 1°F*** | ***Reading 1°C*** | ***Reading 2°F*** | ***Reading 2°C*** |
| 10:37 AM10:56 AM11:08 AM11:32 AM11:48 AM12:30 AM12:53 AM1:18 AM | 6363636364666868 | 1717171718192020 | 6363636364666868 | 1717171718192020 |
| 10:56 AM | Time | Beaufort # | Anenometer | Direction |
| 10:37 AM10:56 AM11:08 AM11:32 AM11:48 AM12:30 AM12:53 AM1:18 AM | 10:20 AM10:40 AM11:07 AM11:20 AM11:40 AM12:00 PM12:55 PM1:09 PM | 11/2222223 |   | NNNNNSSS |
|  Cloud Cover  | 90-100% all day - Stratus |
| Weather Today  | No rain |
|  Weather Last 3 Days | Warm and dry temps. |
| ***Turbidity – Secchi Disk*** | Reading 1 | Reading 2 | Reading 3 | Average cm  |
| ***10:35 AM*** | 183 cm |  |  |  |
| ***10:45 AM*** | 178 cm |  |  |  |
| ***11:05 AM*** | 180 cm |  |  |  |
| ***11:50 AM*** | 198 cm |  |  |  |
| ***12:58 PM*** | 157 cm |  |  |  |
| ***1:25 PM*** | 219 cm |  |  |  |
| ***1:30 PM*** | 225 cm |  |  |  |
| ***Chemical*** |  |  |  |  |
| DO (drop count kit) | Time | Temp °C | ppm | % saturated |
| *Group 1* | 10:35 | 20°C | 2 |  18% |
| *Group 2* | 11:00 |  | 2 |   |
| *Group 3* | 11:11 |  | 1 |   |
| *Group 4* | 11:20 |  | 2 |   |
| *Group 5* | 11:47 |  | 2 |   |
| *Group 6*  | 12:30 |  | 2 |   |
| *Group 7* | 12:50 |  | 2 | Average 2ppm  |
| pH – *Group 1* | 10:35 | 20°C | 8 |   |
| *Group 2* | 11:00 |   | 7.5 |   |
| *Group 3* | 11:11 |  | 7.5 |   |
| *Group 4* | 11:20 |  | 8 |   |
| *Group 5* | 11:47 |  | 7.5 |   |
| *Group 6*  | 12:30 |  | 7.5 |   |
| *Group 7* | 12:50 |  | 8 | Average 7.7 |
| Salinity - *Group 1* | 10:35 | 20°C | 1.008 ppt |  11.4  |
| *Group 2* | 11:00 |   | 1.008 |  11.4 |
| *Group 3* | 11:11 |  | 1.006 |  8.8 |
| *Group 4* | 11:20 |  | 1.005 |  7.4 |
| *Group 5* | 11:47 |  | 1.006 |  8.8 |
| *Group 6*  | 12:30 |  | 1.008 |  11.4 |
| *Group 7* | 12:50 |  | 1.008 | 10.1 |
|  |  | ***Seems high*** | ***Hydrometer*** | ***10 ppt average*** |
| ***Fish Catch****12 hauls*  | ***Number Caught*** | ***Species*** | ***Size*** |  |
| **Fish**  | 3 | American Eel | **DIVERSITY**  | **5** |
|  | 2 | Atlantic Silverside | **TOTAL CATCH**  | **19** |
|  | 7  | Northern Pipefish |  |  |
|  | 1 | Striped Bass |  |  |
|  | 6  | Atlantic Menhaden \* | \*Saw several huge schools but they were too fast to net |
| **Macros** | 23 | Blue Crab | **DIVERSITY**  | **2** |
|  | 4 | Shrimp | **TOTAL CATCH**  | **27** |
| ***Tides –***  |  |  |  | ***Rise/Fall/******Unchanged*** |
| 10:37AM |  Rising |   |   |  |
| 10:AM |  Rising |   |   |   |
| 11:00 AM  |  Rising |  |  |  |
| 11:26 AM |  Rising |   |  |   |
| 11:47 AM |  Rising |  |  |   |
| 12:28 PM |  Rising |   |   |   |
| 12:52 AM  |  Rising |  |  |  |
| ***Currents*** | 10:37 AM | Ebb |  |  |
|  | 10:56 AM | Ebb |  |  |
|  | 11:19AM  |  | Flood |  |
|  | 11:35 AM |  | Flood |  |
|  | 11:57 AM  |   | Flood |  |
|  | 12:42 PM |  | Flood |  |
|  | 12:53 |  | Flood |  |
|  | 1:24 PM |  | Flood |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Traffic Commercial*** | 1:00 PM | BBC Charburg | Blue/ Red & White | Northbound Empty |
| ***Traffic Recreational*** | 10:35 AM10:53 AM11:00AM11:00AM11:03 AM11:23 AM11:34 AM11:40 AM11:54 AM11:55 AM12:02PM12:04 PM12:34 PM12:34 PM1:15 PM1:24 PM | Sailboat/ WindMotorboat/GasMotorboat/GasMotorboat/GasMotorboat/GasSailboat/ WindMotorboat/GasMotorboat/GasMotorboat/GasMotorboat/GasMotorboat/GasMotorboat/GasSailboat/ WindMotorboat/GasMotorboat/GasMotorboat/Gas | WhiteWhiteWhiteWhiteWhiteWhiteWhiteWhiteWhiteWhiteWhiteWhiteWhiteWhiteWhiteWhite | SouthboundSouthboundNorthboundNorthboundSouthboundNorthbound Southbound Northbound Southbound Northbound Southbound Southbound Southbound Southbound Northbound Northbound |
| ***Other Items*** | Three trains |  |  |  |
| ***Observed*** | 5 crows, 5 egrets, 12 geese, 2 red-billed gull, 1 eagle, 1wren |