**Day in the Life of the Hudson River 10/20/15 Data**

**RIVER MILE 11.5 – Fort Washington Park**

**Katie White, Marymount School of New York**

**51 students 7th grade, 7 adults**

**Latitude 40°50’46.42444” N - Longitude -73.°56’46.914”W**

****

|  |  |
| --- | --- |
|  |  |

**Location:** Fort Washington Park just South of the George Washington Bridge

**Area:** Site is a sandy beach with rip rap adjacent to a paved jogging trail within a grassy park. Some trees on far side of jogging trail but none next to water. Very little aquatic vegetation.

**Surrounding Land Use**: : 14% forested, 85% grass park land, 1% beach,

**Sampling Site:** Park with a lot of trees, picnic tables, covered with vegetation, lots of riprap shore, collected wood debris. Large outflow pipe directly south of site

**Plants in water:** None

**Water depth**: mainly 0.5 meters or less but seined in 1.5 meter water

**River Bottom** –muddy but rocky closer to shore in some spots

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |   |  |  |  |
| Air Temperature | 9:58 AM10:21 AM10:50 AM12:18 PM12:48 PM | 13°C14152017 |  |  |
| Wind Speed – ***Frequent gusts 15-20 throughout day***  | 10:02 AM10:26 AM10:55 AM12:24 PM12:52 PM | Beaufort 2Beaufort 2Beaufort 1Beaufort3Beaufort 3 | 5 pmh5368 | SSWSSWSSWSSWSSW |
| Cloud Cover | 10:0610:2610:5512:2412:52 | Partly cloudy MostlyMostlyClearClear | 25-50 %51-7551-75<25<25 |  |
| Weather today | No rain |  |  |  |
| Weather last 3 days | Cold (highs mid to low 50s) , Clear, No precip |
| **Water** | Before noon calm, after noon choppy |
| ***Water Temperature*** | 9:49 AM10:23 AM10:48 AM12:18 PM12:51 PM | 11°C12°C 14°C18°C15°C  |  |  |
| ***Turbidity -***  *Long site tube* | 10:00 AM10:15 AM11:00 AM12:15 PM12:45 PM  | 49 cm51 cm52 cm46 cm55 cm |  | Averages per rotation |
| ***Chemical*** |  |  |  |  |
| DO *Hach Drop count* | 10:10 AM10:35 AM11:03 AM12:38 PM1:13 PM | 11°C12141815 | 10 ppm10101010 | 90% saturation110%95%15%128% |
| pH *color match test kit* | 9:58 AM10:29 AM10:56 PM12:27 PM12:59 PM | 7.07.27.37.27.2 |  |  |
| *Salinity* |  | *refractometer* | *hydrometer* |  |
|  | 10:00 AM10:15 AM11:00 AM12:15 PM12:45 PM | 17 ppt 17181919 | 17 ppt17171516 |  |
| ***Fish Catch – 9 ft.***  ***20 seines***  | ***Time*** | ***Fish Species*** | ***# caught*** | ***Length cm*** |
| ***Seine #1*** | 9:50 AM | Atlantic Silversides | 1 | 8.0 |
| ***#2*** | 9:58 AM | Atlantic Silversides | 17 | 8.5 |
| ***#3*** | 10:06 AM | Atlantic Silversides | 1 | 8.5 |
| ***#4*** | 10:20 | Atlantic Silversides | 12 | 11.5 |
| ***#5*** | 10:30 | None | 0 |  |
| ***#6*** | 10:38 | Atlantic Silversides | 2 | 9.5 |
| ***#7*** | 10:40 | Atlantic Silversides | 7 | 10.5 |
| ***#8*** | 10:45 | Atlantic Silversides | 1 | 8.5 |
| ***#9*** | 10:55 | None | 0 |  |
| ***#10*** | 11:00  | Striped Bass | 2 | 10.5 |
| ***#11*** | 11:05 | None | 0 |  |
| ***#12*** | 12:15 PM | Atlantic Silversides | 1 | 10.0 |
| ***#13*** | 12:20 PM | Atlantic Silversides | 10 | 10.0 |
| ***#14*** | 12:22 | None | 0 |  |
| ***#15*** | 12:25 | Atlantic Silversides | 2 | 8.0 |
| ***#16*** | 12:47 | None | 0 |  |
| ***#17*** | 12:48 | None | 0 |  |
| ***#18*** | 12:49 | Atlantic Silversides | 8 | 8.5 |
| ***#19*** | 12:54 | None | 0 |  |
| ***#20*** | 1:00 PM | None | 0 |  |
| ***TOTAL DIV - 2*** | **TOTAL CATCH 64** |  |  |  |
| ***Macroinvert*** | ***Number***  | ***Macros***  | ***Number*** | ***Additional Info*** |
| ***Seine #1*** | 9:50 AM | Mud Snail | 1 |  |
|  |  | Ctenaphore | 2 |  |
| ***#2*** | 9:58 AM | Blue Crab | 1 | YOY Male |
| ***#2*** |   | Shore Shrimp (Palaemonetes)  | 1 |  |
| ***#3*** | 10:06 | Blue Crab | 1 | YOY Male |
| ***#3*** |  | Ctenaphore  | 1 |  |
| ***#3*** |  | Mud Snail | 1 |  |
| ***#6*** | 10:30 | Ctenaphore  | 4 |  |
| ***#7*** | 10:38 | Ctenaphore | 4 |  |
| ***#8*** | 10:45 | Ctenaphore | 5 |  |
| ***#9*** | 10:55 | Ctenaphore | 5 |  |
| ***#11*** | 11:05 | Blue Crab | 1 | YOY Male |
| ***#11*** |  | Mud Snail | 4 |  |
| ***Macro – Div. 4*** | ***Totals 31*** |  |  |  |
| ***Tides*** | 9:45AM | Rising | 77 cm | --- |
|  | 10:01 AM | Rising | 81 cm | 0.25 cm/min |
|  | 10:20 AM | Rising | 88 cm | 0.37 |
|  | 10:39 AM | Rising | 99 cm | 0.58 |
|  | 10:49 AM | Rising | 102 cm | 0.30 |
|  | 11:07 AM | Rising | 106cm | 0.22 |
| \* meter stick got submerged so put in a new stick at a new location |  |  |  |  |
|  | 12:15 PM | Rising | 19 cm | --- |
|  | 12:31 PM | Rising | 30 cm | 0.69 |
| ***Currents*** | ***CM/60 secs*** | **Cm/Sec** | **North/South**  | **Ebb/Flood/Still** |
| ***9:58 AM******10:20 AM******11:00 AM******12:23 PM******12:55 PM*** | Were able to throw the orange into the main channel so this is main channel current! | 5.4 cm/sec12.4 cm/sec9.5 cm/sec15.3 cm/sec9.5 cm/sec |  | FloodFloodFloodFloodFlood |
| ***Shipping – Commercial***  | 10:03 AM  | Barge | BMLP | S - Loaded |
|  | 12:55 PM  | Tug/Barge | Doubleskin 301 | N - Light |
| ***Recreational***  | 9:59 AM  |  | Unknown | N – N/A |
|  | 12:32 AM |  | UNKNOWN  | S - NA |