**Day in the Life of the Hudson River 10/20/16 Data**

**(Saltfront ~ RM 83)**

**RIVER MILE 19.5**

**JFK Marina, Yonkers**

**Kelly Jakob, Danielle Doucette, Riverside High School 11th-12th grade, 30 students, Museum 25 School 6th grade 30 students, 6 adults**

**Riverside High School & the Museum School**

**Latitude 40°59’52”N, Longitude 73°53.03”W**

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

**Location:** JFK Marina, Yonkers waterfront, Westchester, NY

**Area:** Waterfront marina with a north facing boat ramp for seining and a wooden walkway along the edge.

**Surrounding Land Use:** 40% grassy park fenced from the water, 60% cement boat ramp on the northside and large parking lot.

**Sampling Site:** bulkheaded waterfront, cement ramp for seining,

**Plants in area:** no

**Water depth**:

**River Bottom**:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***9:30 AM*** | ***1:30 PM*** | |  | | ***Comments*** |
| ***Physical*** |  |  | |  | |  |
| Air temperature | NR |  | |  | |  |
| Wind Speed | NR |  | |  | |  |
| Weather today | overcast | | | | | |
| Weather recently | Warm and dry | | | | | |
| ***Water Surface*** |  | | | | | |
| ***ITEM*** |  | |  | |  | ***Comments*** |
| ***Turbidity – long site tube*** | NR | |  | |  |  |
| ***Water temperature*** | AM | | 67°F | | 19°C |  |
| ***Chemistry*** |  | |  | |  |  |
| *pH –* color kit | 9:31 AM  10:01 AM  10:09 AM  10:17 AM  10:26 AM  11:50 AM  12:00 PM  12:09 PM  12:15 PM | | 8.4  8.0  8.0  7.5  7.25  8.4  8.0  7.9  7.8 | | Base  Base  Base  Base  Base  Base  Base  Base  Base |  |
| ***DO – Hach kit*** | **Time** | | **H2O Temp** | | **DO\*** | **% Saturation** |
| *\*Seems there were air bubbles in the samples* | 9:38 AM  10:01 AM  10:40 AM  11:50 AM  12:00 PM  12:15 PM | | 18.5°C  19.0  17.0  20.0  19.0  20.0 | | 12.5  18.0  19.0  18.0  23.0  13.0 | 140%  150%  150%  150%  175%  145% |
| *% saturation* | NR | |  | |  |  |
| *Salinity -refracometer* | 15 ppt | |  | |  |  |
| ***Fish Catch***  Seine 30 ft. net | 132 | | Atlantic Silversides | | 11 cm | ***DIV 2***  ***TOTAL 147*** |
|  | 15 | | Striped Bass | | 7 cm |  |
| ***Macroinvert. Catch*** | 1 | | Blue crab | | F – 3 cm | ***DIV 4***  ***TOTAL 25*** |
|  | 1 | | Mud Crab | | F |  |
|  | 2 | | Comb Jelly | |  |  |
|  | 21 | | Moon Jelly | | 9 cm |  |
| ***Tide*** | ***Start Time*** | | ***Water Height*** | | **Current timed 60 secs** |  |
| ***\*Note – tide was flooding the full sampling time but hard to capture readings from walkway to water surface*** | 9:26 AM  9:11  9:50  9:54  9:56  10:00  10:27 | | 90cm  120\* wave?  110  110  error  97.5  80 cm | | Ebb  Ebb  Ebb  Still  Flood  Flood  Flood |  |
| ***Other Items*** | 4 | | Water Chestnut | |  |  |