**Day in the Life of the Hudson River 10/12/17 Data**

**(Saltfront ~ RM 65)**

**RIVER MILE 19.5**

**JFK Marina, Yonkers**

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**Kelly Jakob, Riverside High School & Museum School 5th-12th grade 100 students, 10 adults**

**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

**River Bottom**:

**SAMPLED FROM 9-1PM**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***TIME*** |  | |  | | ***Comments*** |
| ***Physical*** |  |  | |  | |  |
| Air temperature | NR | Wind Speed | | NR | |  |
| Weather today | Overcast, cool breezy and a bit damp in the AM | | | | | |
| Weather recently | A small amount of rain but warm | | | | | |
| ***ITEM*** |  | |  | |  | ***Comments*** |
| ***Turbidity – secchi*** | NR | |  | |  |  |
| ***Water temp.*** | AM | | °F | | °C |  |
| ***Chemistry*** |  | |  | |  |  |
| *pH –* color kit | 9:17 AM  9:39 AM  9:43 AM  9:58 AM | | 8.0  7.0  8.0  7.5 | |  | Average 7.6 |
|  | 10:01AM  10:11 AM | | 8.0  8.0 | |  | Average 8.0 |
|  | 11:40 AM  11:43 AM  11:48 AM  11:52 AM | | 8.0  7.7  10.0  8.0 | |  | Average 8.4 |
|  | 12: 01 PM  12:14 PM  12:16 PM  12:19 PM  12:21 PM  12:29 PM  12:30 PM  12:40 PM  12:42 PM  12:47 PM  12:59 PM | | 8.5  8.0  8.5  8.0  7.7  8.0  7.7  8.5  7.5  8.0  8.0 | |  | Average 8.0 |
| ***DO – Hach kit*** | **Time\*** | | **H2O Temp** | | **Test #** | **DO\* mg/L** |
| *\*most numbers too high – must have had a sampling bubble or not swirled after sampling*  *7 mg/L is approximately what we would expect* | No specific times recorded  Sampling from  9-1PM | | NR°C | | Test 1  Test 2  Test 3  Test 4  Test 5  Test 6  Test 7  Test 8  Test 9  Test 10  Test 11 | 20 mg/L  26  20  26  17  15  7  15  15  7  7 |
| *Salinity –refract.* | NR | |  | |  |  |
| ***Fish Catch***  Seine 10 ft. net | Number | | Species | | Average length |  |
|  | 63 | | Atlantic Silversides | | 7.6 cm | ***DIV 2***  ***TOTAL 65*** |
|  | 2 | | Striped Bass | | 7 cm |  |
| ***Macroinvert. Catch*** | 2 | | Blue crab | | 4 cm | ***DIV 3***  ***TOTAL ~112*** |
|  | >60 | | Moon Jellies | | 1-4 cm |  |
|  | >150 | | Ctenaphore - Comb Jelly | | 1-6 cm |  |
| ***Tide*** | ***Start Time*** | | ***Water Height - cm*** | |  |  |
|  | 9:00 AM  11:00 AM  11:25 AM  11:55 AM  12:06 PM  12:35 PM  12:54 PM | | 0  16  31  47  48  62  69 | |  |  |