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

**(Saltfront ~ RM 83)**

**RIVER MILE 76W**

**Bob Shepard Highland Landing Park, Highland, Dutchess County**

**Kevin Rizzo, Highland, 30 students, 8th grade Living Environment, 3 adults**

**41.715758° - 73.948°**



 N

W E

 S

**Location:** Bob Shepard Highland Landing Park, Highland, New York.

**Area:** New park, pier, grassy, parking lot. Park used for fishing, boating

**Surrounding Land Use:** 20 % commercial/industrial; 40% urban/residential; 30% forested; 10% beach

**Sampling Site:** shoreline is riprap, banks altered, concrete bulkhead, wood bulkhead, banks altered, broken concrete and docking debris, construction debris, some brick on shoreline.

**Plants in area: ~**20% plants in water – water chestnut

**Water depth**: 2 ft. to 50 ft.

**River Bottom** –rocky, muddy

**Sampled 9:00 AM to 1:00 PM**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Farenheit*** | ***Celcius*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 9:30 AM10:30 AM1:00 PM | 55 °F65 °F69 °F | 13°C18°C20.6°C |  |
| Wind Speed | NR |  |  |  |
| Cloud Cover | 9;30 AM | 26-50%partly cluody | *Water condition* | Choppy  |
| Weather today | No rain today |
| Weather last 3 days | Warm and dry |
| ***Water Temp.*** | 10:30 AM11:30 AM12:30 PM | 64°F6464 | 18°C1818 |  |
| ***Turbidity – Secchi disc*** | 12:30 PM  | 97 cm62 cm |  |  |
| ***Long sight tube*** | 12:30 PM | 92 cm |  |  |
| ***Chemical*** |  |  |  |  |
| DO - meter | 11:30 AM | 18°C |  | >50% |
| pH – litmus paper & pH pen | 9:30 AM10:30 AM11:30 AM12:30 PM | 7889  |  |  |
| Salinity -  | NR |  |  |  |
| ***Fish Catch – 20 feet net*** | ***Number Caught*** | ***Species*** |  ***Largest*** |  |
| ***Fish***  | 224 | River Herring | NR | **Diversity 8 Total Catch 282** |
|  | 14 | Blue back Herring | 7.6 cm |  |
|  | 1 | Blue Gill Sunfish |  |  |
|  | 3 | Killifish | 5 cm |  |
|  | 33 | Spottail shiner |  |  |
|  | 2 | Striped Bass | 10 cm |  |
|  | 1 | White Perch | 10 cm |  |
|  | 3 | Northern Kingfish |  |  |
| ***Macroinvert*** | 1  | Blue Crab | Male | **Diversity 1****Total 1** |
| ***Tides – Time*** | ***Falling/******Rising*** | ***Height in cm*** | ***Rate/change cm/min*** | ***Rate per min.***  |
| 9:50 AM 10:50 AM11:10 AM11:20 AM11:30 AM12:30 PM12:55 PM | StillFallingRisingRisingRisingRising | -20 cm-20 cm-10 cm+4 cm-+10 cm+20 cm+26 cm |  |  |
| ***Currents*** | ***Time*** | ***Cm/30sec*** | ***Still/ebb/flood*** | ***Comment*** |
|  | 10:09 AM10:30 AM11:30 AM | 320 cm  | stillebbflood | 10cm/sec |
| ***Sediment Core***  | ***Description*** | ***Common***  | ***Abundant*** |  |
|  | 15.25 cm | ClayMudOyster ShellsFreshwater MusselsZebra musselsBrick bits |  |  |
| ***Ship Traffic – Commercial***  | 1:09 PM | UBC  | White/red/yellow  | Southbound |
| ***Ship Traffic - Recreational*** | 10:31 AM11:04 AM12:25 PM12:40 PM | SailboatNY593M4Coast GuardNY54391X | White/MaroonWhite/blueBlack/WhiteShite/Blue | South – lightNorth – lightSouth – lightSouth - light |
| ***Other Observations*** | Chestnut seeds, birds – seagulls, squirrel |