**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°**



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**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 AM  10:30 AM  1:00 PM | | 55 °F  65 °F  69 °F | 13°C  18°C  20.6°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 AM  11:30 AM  12:30 PM | 64°F  64  64 | | 18°C  18  18 | |  |
| ***Turbidity – Secchi disc*** | 12:30 PM | 97 cm  62 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 AM  10:30 AM  11:30 AM  12:30 PM | 7  8  8  9 | |  | |  |
| 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 AM  11:10 AM  11:20 AM  11:30 AM  12:30 PM  12:55 PM | Still  Falling  Rising Rising  Rising  Rising | -20 cm  -20 cm  -10 cm  +4 cm  -+10 cm  +20 cm  +26 cm | |  | |  |
| ***Currents*** | ***Time*** | ***Cm/30sec*** | | ***Still/ebb/flood*** | | ***Comment*** |
|  | 10:09 AM  10:30 AM  11:30 AM | 320 cm | | still  ebb  flood | | 10cm/sec |
| ***Sediment Core*** | ***Description*** | ***Common*** | | ***Abundant*** | |  |
|  | 15.25 cm | Clay  Mud  Oyster Shells  Freshwater Mussels  Zebra mussels  Brick bits | |  | |  |
| ***Ship Traffic – Commercial*** | 1:09 PM | UBC | | White/red/yellow | | Southbound |
| ***Ship Traffic - Recreational*** | 10:31 AM  11:04 AM  12:25 PM  12:40 PM | Sailboat  NY593M4  Coast Guard  NY54391X | | White/Maroon  White/blue  Black/White  Shite/Blue | | South – light  North – light  South – light  South - light |
| ***Other Observations*** | Chestnut seeds, birds – seagulls, squirrel | | | | | |