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

**RIVER MILE 76W**

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

**Kevin Rizzo, Highland, 30 students, 8th grade Living Environment, 4 adults**



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W E

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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:** 50 % urban/residential; 40% urban/residential; 10% park area with grass and waterfront docks

**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: ~**10% plants in water (not identified)

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

**River Bottom** –mostly rocky at shoreline with mud ad silt at greater depths

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Farenheit*** | ***Celcius*** | ***Comments*** | |
| ***Physical*** |  | |  |  |  | |
| Air Temperature | NR | |  |  |  | |
| Wind Speed | NR | |  |  | |  |
| Cloud Cover | NR | | 25-50% | *Water condition* | Choppy | |
| Weather today | No rain today | | | | | |
| Weather last 3 days | Cool weather but a dry season | | | | | |
| ***Water Temp.*** | NR | °F | | °C | |  |
| ***Turbidity – Secchi disc*** | NR | 65 cm  76 cm  72.5 | | Average – 71 cm | |  |
| ***Long sight tube*** |  | 34  31.4  35.6 cm | | Average 33.6 cm | |  |
| ***Chemical*** |  |  | |  | |  |
| DO - meter | NR |  | |  | |  |
| pH – litmus paper & pH pen | NR | Recorded at N for neutral to slightly basic | |  | |  |
| Salinity - | NR |  | |  | |  |
| ***Fish Catch – 10feet net*** | ***Number Caught*** | ***Species*** | | ***Largest*** | |  |
| NR | 2 | Striped Bass | | 11 cm | | **Diversity 3**  **Total Catch 183** |
|  | 179 | American Shad | | 10 cm | |  |
|  | 2 | Tessellated darter | | 6 cm | |  |
| ***Tides – Time*** | ***Falling/***  ***Rising*** | ***Height in cm*** | | ***Rate/change cm/min*** | | ***Rate per min.*** |
| 9:30 AM  10:00 AM  10:40 AM  11:00 AM  11:45 AM  12:10 PM  12:30 PM | Falling  Falling  Falling  Falling  Falling Falling | 0  -43 cm  -109 cm  -145 cm  -175 cm  -299 cm  -312 cm | | 43/30  66/40  36/20  30/45  124/25  13/20 | | 1.43 cm/min  1.65 cm/min  1.8 cm/min  0.67 cm/min  4.96 cm/min  0.65 cm/min |
| ***Currents*** | ***Time*** | ***Cm/sec*** | | ***N/S*** | | ***Comment*** |
|  | 9:37 AM  9:41 AM  9:53 AM | 12.88  4.28  31.5 | | N  N  N | | Orange was thrown in different places |
| ***Ship Traffic – Commercial*** | 9:12 AM  9:12 AM  11:30 AM  11:45 AM  12:20 PM | UBL 85  Arabian Sea  NR  Bouchard  Cap Willy Landers | | Black  White  Red  Black  Blue | | South/Light  South/Light  South/Light  South/Light  North/Light |
| ***Ship Traffic - Recreational*** | 12:25 PM | River Wrangler | | White | | North |