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

**(Salt Front ~RM 83)**

**RIVER MILE 97**

**Sojourner Truth/Ulster Landing State Park, Town of Ulster, Ulster Co.**

**Latitude 42°N, Longitude 73°56’W**

**Deanna Rizzo, Duane Wolff Kingston High School**

**APES 11-12th graders – 20 students, 2 adults**

**GPS 42°0’18” N - 73°56’38” W**

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

** Location:** Swimming beach, Sojourner Truth/Ulster Landing Park, Town of Ulster, Ulster County

**Area:** Forested,fishing pier, swimming beach, has a building with restrooms

**Surrounding Land Use:** Beach 70%; Forested area 30%; parkland with grass and picnic area

**Shoreline:** 80% sandy, 20% rocky

**Sampling Site:** beach, altered bank with concrete bulkhead, Rip rap, brick pieces in the area, slag in the area, drainage from bulkhead north of site immediately

**Plants in water area:** no plants

**River Bottom**: sandy

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 10:21 AM | | 17°C  51°F |  |  |
|  | 11:13 AM | | 19°C  65°F |  |  |
| Wind Speed | AM | | 1 Beaufort |  | NE | |
| Cloud Cover | AM | | overcast | >75% |  |
| Weather today | No precip | | | | |
| Weather recently | Very warm and clear - dry | | | | |
| ***Water Temperature*** | NR |  | |  |  |
| ***Water Surface*** | calm |  | |  |  |
| ***Turbidity - meter*** | NR |  | |  |  |
| ***Chemical*** |  |  | |  |  |
| DO – meter | N/R |  | |  |  |
| pH - | ***Time*** |  | |  | ***Average*** |
| ***Litmus paper & indicator solution*** | 10:20 AM | 7.8  8.5  7.8 | |  | Average 8.0 |
| Salinity –LR quantabs | 10:20 AM | 36 ppm Cl-  36 ppm Cl- | | 65 ppm TS |  |
| Nitrates | 10:20 AM | 0 ppm  0 ppm | |  |  |
| Phosphates | 10:20 AM | Positive test | | No numeric data = qualitative testing |  |
|  | 10:20 AM | 240 ppm  240 ppm | |  | Average 240 ppm |
| ***Fish Catch***  *27.5’seine X 3.5 X/1/8 inch mesh* | ***Species*** | ***Number*** | | ***Length of largest*** | ***Seine #*** |
| ***All catches*** | 21 | Spottail Shiner | | 12 cm | ***DIV 9*** |
| ***Fish Recorded Together*** | 21 | Tessellated Darter | | 12 cm | ***TOTALS 95*** |
|  | 5 | Common Shiner | | 10.5 cm |  |
|  | 2 | Yellow Perch | | 17 cm |  |
|  | 20 | Striped Bass | | 12 cm |  |
|  | 1 | Goldfish | | 7 cm |  |
|  | 12 | Bull Catfish | | 26 cm |  |
|  | 1 | Hog Choker | | 12 cm |  |
|  | 1 2 | Bluegill Sunfish | | 6 cm |  |
| ***Macro*** | 35 | Blue Crab | |  | ***DIV 1***  ***TOTALS 35*** |
| ***Grand Total*** | ***Diversity 7*** | ***Total Catch 124*** | |  |  |
| ***Tides*** | ***Time*** | ***Depth*** | | ***Rate*** | ***Falling/Rising*** |
|  | 9:55 AM | 0 | | Set | Set |
|  | 10:12 AM | 49 cm | | 10 cm/20 | Rising |
|  | 10:24 AM | 87 cm | | 9 cm/30 min | Rising |
|  | 10:35 AM | 120 cm | |  | Rising |
|  | 11:03 AM | 250 cm | |  | Rising |
|  | 11:27 AM | 400 cm | |  | Rising |
|  | 12:15 PM | 250 cm | |  | Falling |
| ***Currents*** | ***Time*** | ***Cm/Sec*** | | ***Cm/Sec*** | ***N/S***  ***E/F/Still*** |
|  | 10:19 AM | 0 | |  |  |
|  | 10:6 AM | 152 | | 5.1 | Ebb |
|  | 10:50 AM | 250 | | 8.3 | Ebb |
|  | 12:14 PM | 200 | | 6.7 | Flood |
| ***Traffic - Commercial*** |  |  | |  |  |
| ***Time*** | ***Name*** | ***Color*** | | ***N/S*** | ***Loaded/Light*** |
| 10:50AM | Barge w/tug | Red/Black | | North | Light |
| 11:09 AM | UBC Seattle | White | | South | Light |
| 11:57 AM | Barge w/ tug | White | | North | Light |
| ***Recreational*** |  |  | |  |  |
| 11:30 AM | N/R | White | | South | Light |
| ***Other Items*** | Devil’s heads, black walnut, seaweed, duckweed, bricks, birds, fish | | | | |
| ***Core*** | ***Length*** | ***Rare*** | | ***Common*** | ***Abundant*** |
| ***11:30 AM – water 21 cm deep*** | 16 cm  H2S smell  Oxidized top – streak | Gravel  Pebbles  Freshwater Mussels  Zebra mussel | | Clay  Mud  Brick | Sand |
| BOTTOM < 16 cm length> TOP  Streak of gray sand along bottom. | | | | | |