**Day in the Life of the Hudson River 10/20/14 Data**

**(Salt Front RM 63.6)**

**RIVER MILE 92**

**Kingston Point Park, Kingston, Ulster County**

**GPS Latitude 41°55.6 N Longitude 73°57.90 W**

**Steve & Julie Noble, Forsyth Nature Center (Site Hosts) – 10 adults total**

**Pam Ruzzo, George Washington ES– 4th grade, 25 students**

**Martha Cheo and 4H Club Epic Explorers 10 students**

**Location:** Swimming Beach Kingston Point, City of Kingston, beach and parking lot

**Area:**, Used for picnics, boating, fishing, swimming, jogging, kayaking

**Surrounding Land Use**: 75% forested; 15% beach; 10% Industrial/Commercial

**Sampling Site:** Beach area-shoreline is sandy with some bricks, banks are altered, collected wood debris in the area, rip rap to north along brickyard shoreline. Sandy shoreline 75 feet from shoreline to parking lot, 200 feet wide with boat launch, large amount of brick debris from prior industry

**Plants in area:** spatter dock, water chestnut, common reed

**Water depth**: 6.5 inches

**River Bottom** : sandy, muddy bottom

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 10:45 AM | | 54°F  11°C |  |  |
| Wind Speed | 10:50 AM | | Beaufort #2 | 3.5 mph | South |
|  | 11:55 AM | | Beaufort #2 | 4-7 mph | |
| Cloud Cover | 10:30 -12:30 PM | | Mostly cloudy 51-75% cover | | |
| Weather today | Drizzle | | | | |
| Weather recently | Rained Friday and Saturday | | | | |
| ***Water Surface*** | Calm | | | | |
| ***Water Temperature*** | Time | Temperature #1 | | Temperature #2 | Average |
| Water Depth 0.5 ft. | 11:10 AM | 48°F  9 °C | | 50°F  10 °C | 49°F  9.5°C |
|  | 12:15 PM | 57°F  13.9°C | |  |  |
| ***Turbidity -*** | 12:00 PM | 50 NTU | | Spiked after the large ship stirred up the water | |
| ***Chlorophyll*** |  |  | |  |  |
| ***Chemical*** |  |  | |  |  |
| DO  *Test tabs* | 12:15 PM | 7 mg/L | | 9.5°C | 60% |
| pH – pen |  |  | |  |  |
| Salinity - Quantab | 12:15 PM | 29 ppm Cl- | | 52 ppm T.S. |  |
| ***Fish Catch***  *30’seine X 4 ft. with bag* | ***Number Caught- 7*** | ***Species - 2*** | | ***Largest Size*** | ***Macro-invertebrates*** |
| *10:45 AM* | 34 | Herring y-o-y | |  | **Diversity 4** |
| *2 hauls* | 57 | Spottail Shiner | |  | **Total 96** |
|  | 4 | Striped Bass | |  |  |
|  | 1 | Banded Killifish | |  |  |
|  | 1 | Largemouth Bass | | 2 inches | **Diversity 4** |
|  | 2 | Spottail Shiner | |  | **Total 42** |
|  | 37 | Herring | |  |  |
|  | 2 | Banded Killifish | |  |  |
| **TOTAL Both Seines - Diversity 5 Total Catch 138** | | | | | |
| ***Tides*** | 10:30 AM | 17 cm | | Turned out tide was going out so no numeric reading | |
|  | 11:00 AM | 18 cm | | Falling |  |
|  | 11:52 AM | 20 cm | |  |  |
| ***Currents*** | 10:40 AM | flood | |  |  |
| ***Core Sample*** | ***Description*** | ***Rare*** | | ***Common*** | ***Abundant*** |
| ***11:15 AM - From mud flats*** | 5.25 cm with 1.25 cm top 1.5 cm second layer | Pebbles,  leaves | | Mud,  Gravel  Brick bits | sand |
| ***Traffic*** | 11:42 AM | Ocean Crescent | | Blue Rust | Southbound Light |
|  | 11:15 AM | Maria T. | | Red | Northbound Loaded |
|  | 12:20 PM | Recreational | | White | Northbound Sailboat |
| ***Other Items*** | 8:51 AM | Lots of ‘cowheads’ (water chestnut seeds) and bricks!  Lots of ring billed ducks | | | |
| ***Almanac entry*** | A large boat – Ocean Crescent - came by southbound around 11:42 and sent a wave 30 ft. up onto the shore! | | | | |