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

**RIVER MILE 23**

**Kinnally Cove & MacEachron Waterfront Park, Hastings-on-Hudson**

**Melissa Shandroff, Hastings High School APES 11th-12th grade, 65 students, 4 adults**

**Latitude 40°59’52”N, Longitude 73°53.03”W**

**Location:** Kinnally Cove, Hastings-on-Hudson, Westchester County

**Area:** Beach area with riprap shoreline, next to the park – used both spaces. Beach is totally covered during high tide.

**Surrounding Land Use:** 50% industrial/commercial (next to old Anaconda site) but mainly parking lot now, 15 % forested, 10% grassy, 25% beach

**Sampling Site:** beach, banks altered, riprap on shoreline, bulkhead

**Plants in area:** grass and weeds

**Water depth**:

**River Bottom** – sandy/rocky bottom

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***9:30 AM*** | ***1:30 PM*** |  | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air temperature | 54 °F12.2°C | 67.5°F19.7°C |  |  |
| Wind Speed | 10.2 mph | 6.5 mph |  |  |
| Cloud Cover | Partly cloudy 26-50% |  |
| Weather today | Part clouds no rain  |
| Weather recently | cool over the last few days,  |
| ***Water Surface*** | calm |
| ***ITEM*** | ***9:30 AM*** | ***1:30 PM*** |  | ***Comments*** |
| ***Turbidity – long site tube*** | 3.2 cm | 8 cm |  | \*This site has a muddy embayment |
| ***Turbidity – short tube*** | 100 jtu | 90 jtu |  |  |
| ***Water temperature*** | 13°C | 15°C |  |  |
| ***Chemistry*** |  |  |  |  |
| *pH -* Pen | 7.2 | 7.2 |  |  |
| *pH strips* | 6.5 | 7 |  |  |
| *pH LaMotte kit* | 6.8 | 6.8 |  |  |
| *DO – Hach kit* | 8 ppm | 10 ppm |  |  |
| *% saturation* | 75% | 97% |  |  |
| *Salinity -hydrometer* | 8 ppt | 11 ppt |  |   |
| *Salinity – Refractometer* | 9 ppt | 10 ppt |  |  |
| *Nitrate – LaMotte Kits* | 1 ppm | 2ppm |  |  |
| *Phosphate – LaMotte kit* | 2 ppm | 2ppm  |  |  |
| ***Fish Catch***Seine 30 ft. net | 8 Atlantic Silversides2 Striped Bass1 Mummichog | 13 Atlantic Silversides10 Striped Bass3 Mummichog1 Banded killi |  | ***DAY TOTAL*** ***FISH Diversity 4******TC – 38******MACRO******Diversity 2******TC - 21*** |
| ***Fish Only***  | **Diversity 3** | **Diversity 4** |  |  |
| ***Total Catch***  | **T.C. 11** | **T.C. 27** |  |  |
| ***Macros***  | 1 Blue Crab (M)4 shrimp | 1 Blue Crab (M)15 shrimp |  |  |
|  | **Diversity 2**  | **Diversity 2** |  |  |
| ***Total Catch***  | **T.C. 5** | **T.C. 16** |  |  |
| ***Sediment Cores*** | **Not Collected** |  |  |  |
| ***Tide*** | NR |  |  |  |
| ***Currents*** | Ebb | Flood |  |  |
|  | 0.5 kts | 4.74 kts |  |  |