**Day in the Life of the Hudson River 10/23/14 Data**

**(Salt Front RM 61.1)**

**RIVER MILE 58a**

**Plum Point/Kowawese, New Windsor, Orange County, NY**

**Jennifer Merriam, Orange County Community College**

**9 Undergraduate Students, 1 Adult**

**GPS Latitude 41°27’46.49”N Longitude 74°00'42.75"W**

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**Location:** NorthernSandy beach at Plum Point, New Windsor, Orange County, Public Shore, Picnic Area

**Area:** Sandy beachbordered by forested area and parking lot. Used for picnic, fishing, kayaking

**Surrounding Land Use:** Beach 50%, Forested 50%

**Sampling Site:** sandy beach (cove), rip rap in area of sampling site, debris in the area such as broken concrete, docking

**Plants in area:** No plants in the water

**Water depth**: sampling in 50 cm depth

**River Bottom** – sandy, rocky

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 8:40 AM | 9.5°C  |  |  |
| Wind Speed | Beaufort #5 | North |  |  |
| Cloud Cover | overcast |  |  |
| Weather today | Steady rain |
| Weather recently | Steady rain last 12 hrs. - cool temperatures |
| ***Water Surface*** | choppy |
| ***Water Temperature*** | 8:35 AM | 10.7°C  |  |  |
|  | 9:14 AM | 10.9 °C |  |  |
| ***Water Surface*** | Choppy |  |  |  |
| ***Turbidity*** *Short sight tube* | 9:00 AM | 40 JTU |  |  |
| ***Chlorophyll*** | 8:50 AM | 1.5  |  |  |
| ***Chemical*** |  |  |  |  |
| DO  | TIME | Temp | DO | % Sat |
| DO – drop count test kits | 8:30 AM | 10.7 °C | 11 | 100% |
| pH – colormetric | 9:05 AM | 77 |  |  |
| Salinity – Quantab  | 9:14 AM | 98 ppm Cl- |  | 177 ppm TS |
| ***Fish Catch***20 ft. ‘ with ¼ inch mesh | ***Species*** | ***Count*** | ***Size of largest*** | ***Totals*** |
| 3 pulls – 9:30 AM | Spottail Shiner | 12 |  | **DIVERSITY 10** |
|  | White Perch | 6 |  | **TOTALS - 66** |
|  | Channel Catfish | 14 |  |  |
|  | Striped Bass | 18 |  | ***CPUE = 3.67*** |
|  | Pumpkinseed Sunfish | 9 |  | 18 m total used to compute CPUE |
|  | Red-breatsed sunfish | 1 |  |  |
|  | Golden Shiner | 1 |  |  |
|  | American Eel  | 3 |  |  |
|  | Herring | 1 |  |  |
|  | Catfish (not channel)  | 1 |  |  |
| ***Tides*** | **Time** | **Height in cm** | **Rate of change** | **Rising/falling** |
|  | 8:28 AM  |  |  | Rising |
|  | 8:58 AM | 5 cm | 0.166 cm/min | Rising |
| ***Currents*** | 8:45 AM | 4 cm/sec | 0.08 kts.  | North/Flood |