**Day in the Life of the Hudson River 10/10/13 Data**

**(Salt Front RM 69.3)**

**RIVER MILE 57**

**Donahue Memorial Park, Cornwall Landing, Village of Cornwall-On-Hudson, Town of Cornwall, Orange County, NY**

**Christopher O’Sullivan, NYSOPRHP Trailside Museums & Zoo**

**Tom Lake, NYSDEC**

**Deborah Gilson, Christine Cleeves, Caryn Mante, Karen Corby - Willow Ave. Elementary - 4th grade – 72 - students**

**GPS Latitude 41°26’36”N Longitude 74°0’1”W**



**Location:** Donahue Memorial Park

**Area:** Sandy beach used for seining & sediment core, 2nd beach are for other sampling.

**Surrounding Land Use:** 100% open and grassy park

**Sampling Site:** pier**,** sandy beach, altered banks, shoreline riprap, bulkhead, collected wood & debris in area,

**Plants in area:**

**Water depth**:

**River Bottom** – muddy, rocky

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | NR |  |  |  |
| Wind Speed | 9:30 AM | #2 Beaufort |  |  |
| Cloud Cover | cloudy |  |  |  |
| Weather today | Cloudy and overcast- Mostly cloudy (51-75%) |
| Weather recently | A lot of rain the last few days |
| ***Water Temperature*** | 11:12 AM 11:20 AM (students)  | 16°C16°C | 11:30 AM (Tom Lake)  | 18.8°C66°F  |
| ***Water Surface*** | Choppy |  |  |  |
| ***Turbidity*** *Long sight tube* | 11:00 AM | 40 cm42 |  | Average 41 cm |
| ***Chlorophyll*** | 11:00 AM | 0.0 |  |  |
| ***Chemical*** |  |  |  |  |
| DO Drop count kit |  |  |  |  |
| pH (indicator sol.) | 11:18 AM | 7.57.0 | Average 7.25 |  |
| Salinity - (Tom Lake meter) | 1l:30 AM  | Salinity 2.5 ppt  |  |  |
| ***Fish Catch***80 ft. seine X 4 ft. with bag – ¼ inch mesh - | ***Number Caught*** | ***Species*** | ***Size*** | ***Comment*** |
| ***11:30 AM*** | 2 | Spottail Shiner | 55-60 mm |  |
|  | 6 | White Perch | 116-153mm |  |
|  | 2 (yearling) | American Shad | 110-111mm |  |
|  | 1 | Redbreast Sunfish | 115mm |  |
| **Total Catch** | **11** | **Diversity** | **4** |  |
| ***Tides*** | TIME | RISING/FALLING | HEIGHT IN CM | RATE OF CHANGE |
|  | 10:00 AM |  | 0 cm |  |
|  | 10:30 am | Still | 0 cm |  |
| ***Currents*** | 10:30 AM |  |  | Ebb |
| ***Boat*** | 10:07 AM | Boat | White | South - light |
| ***Other Observations*** | \* Flock (35-40) Brant in low flyover | \* Immature Bald Eagle over beach |  |  |