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

**RIVER MILE 31 – Nyack Beach Hook Mountain State Park**

**Peter Park, Nyack College, 5 students, 2 adults**

**Nancy Arias, Rockland Community College, 12 students, 2 adults**

**41°07’10”N 73°54’45”W**

**12:30-2:15 PM**

**Location:** Nyack Beach, Upper Nyack, Rockland County NY

**Area:** Park/Boat launch, near Hook Mountain Sandy Beach by the large sitting stairs, **Surrounding Land Use**: 70% forested, 5% urban/residential, 20% beach – used for recreation & picnics

**Sampling Site:** Beach – sandy and rocky at edges, covered with vegetation beyond the beach, stone wall, riprap shore, collected wood debris –

**Piping coming** into river south of sampling site

**Water depth**:

**River Bottom** –sandy

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  |  |  |  |
| Air Temperature | 12:30 PM – 2:15 PM | 20.4°C |  |  |
| Wind Speed |  |  |  | N |
| Cloud Cover | clear |  |  |  |
| Weather today | No rain |  |  |  |
| Weather last 3 days | Cool temperatures |  |  |  |
| ***Water Temperature*** | 12:30 PM  2:00 PM | 16°C  17°C |  |  |
| ***Turbidity –***  ***Long site tube*** | NR |  |  |  |
| ***Chemical*** |  |  |  |  |
| DO  *Drop count* | 12:30 PM – 2:15 PM | 8 ppm |  |  |
| pH  *Colormetric kit* | 12:30 PM – 2:15 PM | 7.9 |  |  |
| *Nitrates* | 12:30 PM – 2:15 PM | 0.3 ppm |  |  |
| *Phosphates* | 12:30 PM – 2:15 PM | 0 ppm |  |  |
| Conductivity (mS) | 2:30 PM | 13.36 | ~6.68 ppt salinity |  |
| ***Fish Catch*** |  | ***Number Caught*** | ***Species*** | ***Latin Name*** |
| ***Seine 12 ft. X 6ft.***  ***Mesh 0.25 inch*** |  | 2 | Atlantic Silverside | Menidia |
| ***Fish Diversity 3*** |  | 1 | Striped Bass | Morone Saxatilis |
| ***Total Catch 8*** |  | 5 | White Perch |  |
| ***MACROINVERT*** |  | 2 | Mud Crab |  |
| ***DIVERSITY = 5*** |  | 1 | Blue Crab | ~2.5 cm juvenile |
| ***TOTALS = 5 + many*** |  | 1 | Sand Shrimp | Crangon |
|  |  | 1 | Clam Worm | Nereis |
|  |  | Too many to count | Moon Jellyfish | Aurelia Aurito |
|  |  |  |  |  |