**Day in the Life of the Hudson River 10/20/16 Data**

**(Salt Front ~ RM 83)**

**RIVER MILE 61.2 E**

**Beacon Landing Park, City of Beacon, Dutchess County**

**Nancy Rypkema and total of 16 adults/teachers - Valley Central Middle School,**

**7th & 8th graders (85 students and 10 adults)**

**Latitude 41.508531, Longitude -73.98634**

Location: Beacon Landing Waterfront Park, Beacon, Dutchess County NY

Area: Park area near the Beacon train station – center at the park with stations all around it and fish in the cove at the end of the park - grassy lawns, forested around edges, parking lot to the side. Children’s play area

Surrounding Land Use: Urban/residential 100% (Parkland)

Shoreline: A bridge, train station, covered in vegetation trees, concrete debris, dock

Sampling Site: beach, covered in vegetation, banks altered, rip rap

Plants in the water: No plants

Water depth: <1 m

Bottom Surface: muddy

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *ITEM* | *Time* | *Reading 1* | *Reading*  | *Comments* |
| *Physical*  |   |  |  |  |
| Air Temperature | 9:20 AM12:06 PM | 17.2°C19.3 | 61.7°F66.8 |  |
| Wind Speed | Beaufort | #2 | 2.3 kts | NW |
| Cloud Cover | Mostly cloudy | 56-75% |  |  |
| Weather today | Small amount of precipitation |
| Weather recently | Warm and dry  |
| *Water Surface* | Choppy |  |
| *Water Temperature* | Time | Degrees °C |   |  |
|  | 10:13 AM11:15 AM12:06 PM | 20°C2021 | 68°F6870 |  |
| *Turbidity- long sight tube* | 10:15 AM | 24.8 cm |  |  |
| *Chemical* | *Time* | *DO* | *Temp* | *% saturation* |
| DO (drop kit) | 10:00 AM | 9 ppm | 20°C | 95% |
| pH – litmus paper | 10:15 AM | *7**7**7.5* |  | 7.2 |
| *Nitrates* | 11:30 AM | 20 ppm X 3 | ?? |  |
| *Salinity –QTs- Time* | *Chloride reading* | *Quantab Average* |  | *Total Salinity conversion* |
| 9:00-12:00 PMQuantabs | 1390 ppm Cl-1390 ppm1390 ppm |  |  | 2511 ppm TS2511 ppm2511 ppm |
| *Fish Catch**seine 8X4feet* | *Number Caught* | *Species* | *Length* | ***Fish******DIV 6******Total 24*** |
| 4X6 ft. pull | 14 | Spottail shiner | 13 cm |  |
|  | 1 | Common Carp | 6.5 cm |  |
|  | 2 | Killifish | 2.5 cm |  |
|  | 1 | Bay Anchovy | 5 cm |  |
|  | 2 | Striped Bass | 15 cm |  |
|  | 2 | Golden Shiner | 7.6 cm |  |
|  | 1 | Black Crappie | 5 cm |  |
|  | 1 | Yellow Perch | NR |  |
| ***Macroinvert*** | 2 | Mud Crab |  | ***Macro DIV 2******Total 9*** |
|  | 6 | Blue Crab |  |  |
|  |  |  |  |  |
| Sediment Core  | NR  |  |  |  |
| *Tides* | *Time* | *Tide Stick* | *Flood/Ebb Still* | *Rate of change* |
|  | 9:53AM10:04 AM10:30 AM10:56 AM11:27 AM12:10 PM | 18 cm20 cm25cm35 cm52 cm70 cm | RisingRisingRisingRisingRisingRising |  |
| *Currents* | *Time* | *Cm/30 secs* | *Cm/sec* | *knots* | *Ebb Flood* |
|  | 10:00 AM10:45 AM11:15 AM11:45 AM12:30 PM | 26030535290250 | 4.30.58.94.94.16 | 0.836 | N  |