**A Day in the Life of the Hudson River 10/16/14 Data**

**(Salt Front RM 65.9)**

**RIVER MILE 60**

**Dennings Point**

**Jim Uhlig, Storm King School, 12th grade – 8 students**

**41.30’10” degrees Latitude 73.50’11” degrees Longitude**

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**Location:** Dennings Point, 200 yards south of Long Dock Rd. Parking Lot, Beacon, Dutchess County

**Area:** Forested,Beach with large piping entering river. Believe area mostly used for sightseeing and fishing. Found a homemade crab trap on the beach!

**Surrounding Land Use:** Nature preserve with few buildings, 50% forested; 50% beach;

**Sampling Site:** Beach, covered with vegetation, rocky & sandy

**Water Depth @ sampling site:** 3 ft.

**Water:** Choppy

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 1:45 PM | | 60°F  20°C |  |  |
| Wind Speed | 1:23 PM | | 4 Beaufort |  |  |
| Cloud Cover | Mostly | | 51-75% |  | |
| Weather today | Rain off and on, wind | | | | |
| Weather recently | Some rain previous 2 days - humid | | | | |
| ***Water Temperature-***  ***Depth 0.1 ft.*** | 2:30 PM | 21°C | |  |  |
| ***Water calm*** | yes |  | |  |  |
| ***Turbidity -***  Secchi disk | 1:40 PM | 24 cm  25 cm | |  | 24.5average |
| ***Chlorophyll*** | 1:29 PM | 2.0 | |  |  |
| ***Chemical*** |  |  | |  |  |
| DO  (drop count kit) | 1:30 PM  2:00 PM | 11 mg/L  12 mg/L | | 21°C  21°C | 120%  130% |
| pH – color match test kit | 2:12 PM  2:23 PM | 5.5\*  5.5\* | |  | \*believes not working well |
| Salinity - quantabs | 2:00 PM | LR 5.5  HR 2.5 | | 303 Cl- ppm  380 Cl- ppm | 547 ppm TS  686 ppm TS |
| ***Fish Catch***  *20 ft. X4 seine – 1 pull* | ***Number –***    20 | ***Species –***  Alewife | | ***CPUE -***  ***Diversity – 1*** | ***Seine***  ***Total catch20*** |
| ***Tides*** | 1:29 PM | 32.9 cm | |  |  |
| ***Currents*** | 1:23 PM | 300cm/30 sec | | 10 cm/sec | 0.19 kts |
|  | 2:20 PM | 500 cm/30 sec | | 16.6 cm/sec | 0.32 kts |
| ***Core Sample – no actual core but sediment in area*** | **Common**  Gravel | **Abundant**  Slag | |  |  |
| ***Boats*** | 1:30 PM | Canoe | | yellow | light |