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

**RIVER MILE 84.5**

**Mills-Norrie Point Environmental Center, Staatsburgh, NY, Dutchess County**

**Jim Herrington, Norrie Point Environmental Center**

**Maribel Pregnall, Arlington High School**

**22 High School 12th graders, 5 adults**

**Shannon Considine, Poughkeepsie High School**

**18 High School students**

**41.8319 N – 73.9425W**

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**Northern Pipefish Netted well up into the freshwater section of the Hudson!**

**  
Location:** Sampling done Norrie Cove and the SW corner of Norrie Point Env. Center Patio. East side of Hudson far from the main channel in a protected cove

**Area:** Substantial paved areas nearby, large environmental center building adjacent to the water. Shallow cove, facing south onto the HR, bordered by RR embankment, parking lot & the environmental center.

**Surrounding Land Use:** 90% Forested; 10% Parking lot, road and building

**Sampling Site:** Front banks altered, Rip Rap. Cove is very muddy with some riprap and west side is rocky

**Shoreline:** beach area, shore with bulkhead, shoreline rip rap,banks altered for EEC building, riprap along RR tracks, collected wood and debris in shallow cove, piping entering river area

**Plants in area:** All water chestnut had died back leaving only detritus; some water milfoil (several big patches 10X10 ft.; Some water celery in rocky river side but none in cove.

**River Bottom** –50% muddy and 50% rocky

**Water Depth –** 2 ft.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***ITEM*** | | ***Time*** | ***Reading 1*** | | | | ***Reading 2*** | ***Comments*** | | |
| ***Physical*** | | Time |  | | | |  |  | | |
| Air Temperature | | 10:19 AM  11:00 AM  12:40 PM | 14°C  14°C  20°C | | | | 57.2°F  57.2°F  68°F |  | | |
| Wind Speed | | 10:25AM | Anemometer 4.3 mph | | | | SE |  | | |
| Cloud Cover | | Partly cloudy 26-51% |  | | | |  |  | | |
| Weather today | | No precip | | | | | | | | |
| Weather recently | | Very cold both 10/18 and 10/19 snow flurries and temps. Down to teens | | | | | | | | |
| Water Surface | | Choppy | | | | | | | | |
| ***Water Temperature – cloudy*** | | 10:19 AM  11:00 AM  12:00 PM | | 14°C  14  14 | 57.2°F  57.2°F  57.2°F | | |  | | |
| ***Turbidity*** | | **TIME** | | **Cm** |  | | |  | | |
| ***When 2 barges went by visibility went to 6-8 cm*** | | 10:19 AM  11:00 AM  12:00 PM | | 34 cm  34 cm  34 cm |  | | |  | | |
| ***Chemical*** | |  | |  |  | | |  | | |
| **DO - (Hach drop count)** | | ALL DAY | | 8 mg/L | 14°C | | | 80% | | |
| **pH – indicator solution** | | ***Time*** | | **Reading #1** | **Reading #2** | | | **Average** | | |
|  | | 10:19 AM  11:00 AM  12:00 PM | | 7.2  7.2  7.4 | 7.4  7.5 | | | Avg 7.3  Avg 7.35  Avg 7.4 | | |
| **Salinity** | | **Time** | | **Chl-units** | **Chloride** | | | **Total Salinity** | | |
| **Quantabs** | | 10:19 AM  11:00 AM  12:00 PM | | 1.4  1.5  1.5 | 39 ppm  46 ppm  46 ppm | | | 70 ppm  83 ppm  83 ppm | | |
| ***Fish Catch – 9 pulls***  ***~50 ft. net*** | **10:20 AM** | | | **11:19 AM** | | **12:30 PM** | | | **Species Totals** | | |
| ***Striped Bass*** | **2** | | | **3** | |  | | | **5** | | |
| ***Banded Killifish*** | **6** | | | **1** | | **1** | | | **8** | | |
| ***White Catfish*** | **2** | | |  | | **4** | | | **6** | | |
| ***Brown Bullhead*** | **1** | | | **4** | | **5** | | | **10** | | |
| ***Pumpkinseed*** | **3** | | | **1** | |  | | | **4** | | |
| ***Bluegill Sunfish*** | **2** | | | **1** | |  | | | **3** | | |
| ***Tesselated Darter*** |  | | | **1** | | **3** | | | **4** | | |
| ***White Perch*** | **1** | | | **3** | |  | | | **4** | | |
| ***Spottail Shiner*** | **15** | | | **7** | | **4** | | | **26** | | |
| ***Northern Pipefish*** |  | | | **1** | |  | | | **1** | | |
| ***Largemouth Bass*** |  | | |  | | **1** | | | **1** | | |
| ***Blue Crab*** |  | | | **1 Male** | |  | | | **1** | | |
| ***River Herring & Shad*** | **Caught & returned** | | | **Caught & returned** | | **Caught & returned** | | | **>25 (use #25)** | | |
| **Fish Diversity & Totals** | ***Div – 8***  ***Totals - 33*** | | | ***Div – 9,***  ***Totals-22***  ***+ 1 crab*** | | ***Div – 6***  ***Totals – 18*** | | | | ***Div 13 +crab***  ***Totals - ~98 +1 crab*** | |
| **Tides** | ***time*** | | | ***cm*** | | ***Rising/Falling*** | | | | ***Cm difference*** | |
|  | 10:00 AM  10:50 AM  11:00 AM  12:10 PM  12:40 PM | | | 20 cm  15 cm  13 cm  6 cm  4 cm | | Ebbing all during sampling | | | | 0  5 cm  2 cm  7 cm  2 cm | |
| ***Currents*** | ***Times*** | | | ***Cm/30 sec*** | | ***Cm/sec*** | | | | ***Kts – N/S*** | |
| Ebbing whole time | 10:15 AM  12:18 PM | | | 106 cm  148 cm | | 3.5 cm/sec  5 cm/sec | | | | 0.16 South  0.1 South | |
| ***Shipping -Commercial*** | **Type** | | | **Name** | | **North/South** | | | | **Loaded /Light** | |
| 11:10 AM | Barge with tug | | | Black/  Red | | South | | | | Light | |
| 12:19 PM | DEC Electro-shocker Whaler | | |  | | North | | | |  | |
| ***Shipping -Recreational*** | **Type** | | | **Color** | | **North/South** | | | | **Note** | |
| 9:50 AM | Sailboat | | | Red | | North | | | |  | |
| 11:13 AM | Motorboat | | | Red/  White | | South | | | | ~18 ft | |
| 11:19 AM | Pleasure boat | | | White | | South | | | |  | |
| 12:20 PM | Small Yacht | | | White | | South | | | | ~20 ft. | |
|  |  | | |  | |  | | | |  | |