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

**RIVER MILE 123**

**River Front Park, Coxsackie**

**Sarah O’Connor, Albany Academy for Girls – 30 students 5th graders, 3 adults**

**Latitude N 42 degrees 22.2' Longitude W 73 degrees 47.756"**

 **Location:** River front park with parking area, boat launch, picnic

**Area:** Parkign area and cement boat launch with fishing and picnic area

**Surrounding Land Use:** Forested 15%, Beach 30%, parking area, cement boat launch, picnic area and fishing 55%

**Sampling Site:** Beach, covered with vegetation, rip rap altered banks

**Plants in area:**

**Water depth**:

**River Bottom** –rocky bottom

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Group 1*** | ***Group 2*** | ***Group 3*** | ***Comments*** |
| ***Physical***  |  **9:30-10:30 AM** | **10:45-11:45 AM** | **12:30-1:30 PM** |  |
| Air Temperature | 9°C | 11°C | 16°C |  |
| Wind Speed | Beaufort 1SW | Beaufort 1SW | Beaufort 0-1SW |  |
| Cloud Cover |  |  |  |  |
| Weather today | Wet and humid – rain  |
| Weather recently |  |
| ***Water Temperature*** | 13°C | 10°C | 12.5°C |  |
| ***Turbidity-****Long Tube* | 23.5 cm56.5 cm***Avg – 40 cm*** | 87.5 cm72.590.25***Avg 83 cm***  | 88 cm59.9\* 63***Avg 70.3 cm*** | \*2 boats went by between 1st and following buckets |
| ***Turbidity Secchi*** | 230 cm | 220 cm | 270 cm |  |
| ***Chlorophyll*** | 0.6 | 0.2 | 0.1 |  |
| ***Chemical*** |  |  |  |  |
| DO (Hach drop count)  | 10 ppm\*  | 11 ppm\* | 10 ppm\* | \*air bubble in each sample |
| pH | NR |  |  |  |
| Salinity Quantabs LR | 43 ppm Cl-72 ppm TS | 43 ppm Cl- 78 ppm TS | 50 ppm Cl-90 ppm TS |  |
| ***Fish Catch*** | **10-10:45 AM** | **11:45-1200** | **1:00-1:45 PM** | ***Comment*** |
|  | 1 Shiner1 Herring1 Killifish  | 2 Shiner1 Herring1 baby perch  | 1 Shiner2 Butterfish1 Bay Anchovy | **Diversity 5****Totals 11** |
|  | **Div 3 /Total 3** | **Div – 3/Total 4** | **Div 3/Total 4** |  |
| ***Tides –***  | 13 cm start  | Falling | Falling |  |
| ***Currents - Direction*** | Ebbing | Ebbing | Ebbing |  |
| ***CORE***  | **Group 1** | **Group 2** | **Group 3** |  |
| *Smell* | FishyDirt/mud smell | DirtFishy | fishy |  |
| *Texture* | Rocky, smooth, wetchunky | BumpyRockyMuddy | Bumpy rocky |  |
| *Color* | BrownGreyReddish/orangeDark green | Red/orangeBrownBlack Gray | BrownBlackGray Red |  |
| *Composition* | PebblesRocksShellsMudTiny brick flecks | DirtRocksPebbles | RocksMudwater |  |