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

**RIVER MILE 47**

**Popolopen Creek Beach, Fort Montgomery, Orange County**

**Kali Bird, Hudson Highland Land Trust**

**Andrew Krakowka, Highland Falls Intermediate School - 38 (8th grade) students, 57 (7th grade) students, 5 adults**

**Latitude N 41°324532 Longitude W 73°988701**

**Location:** Popolopen suspension bridge and creek, Fort Montgomery, Orange County

**Area:** Forested & grassy area

**Surrounding Land Use:** 100 % forested, banks altered but mainly natural, covered in vegetation, beach

**Sampling Site:** creek shoreline in ravine or Popolopen Creek, 5 % sandy, 50% muddy and 45% rocky

**River Bottom** – muddy & rocky

**Plants in water –** Eurasian milfoil and water chestnut

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  |  |  |  |
| Air Temperature | NR |  |  |  |
| Wind Speed | 9:10 AM | Beaufort #3 |  |  | |
| Cloud Cover | 9:10 AM | 26-50% |  |  |
| Weather today | No rain | | | | |
| Weather recently | cold | | | | |
| ***Water Surface*** |  |  |  |  |
| ***Water Temperature –*** | 9:30 AM  9:32  9:34 | 52 °F  52  52 | 12°C  12  12 |  |
| ***Turbidity –*** | 10:36 AM | Long site tube | 58 cm  43 cm  45 cm | 48.67 cm average |
| ***Chemical*** |  |  |  |  |
| DO  (drop kits) | NR |  |  |  |
| pH – color match | 10:05AM | 6.8 |  |  |
| Salinity - | NR |  |  |  |
| ***Fish Catch- Noon*** | ***Number Caught*** | ***Species*** | ***Length*** | ***Diversity/ Totals*** |
| 9-11AM- 8 ft. net X 4ft. | 16 | White Perch | 6 cm | **DIV = 6**  **Totals - 42** |
| 8 pulls | 2 | American Eel` | 12 cm |  |
|  | 1 | Striped Bass | 6 cm |  |
|  | 2 | Bay Anchovy | 6 cm |  |
|  | 15 | Sunfish | 6 cm |  |
|  | 6 | Sucker | 8 cm |  |
| ***Macro*** | 1 (F) | Bluecrab | **DIV – 1; Totals - 1** | |
| ***Tides*** | 9:08 AM | 57 cm |  | |
|  | 9:24 AM | 53 cm | Falling | |
|  | 10:30 AM | 40 cm | Falling | |
| ***Currents*** | 9:30-10:30 |  | Ebb | |
| ***Trains No Boats*** | 9:30 AM | CSX | Southbound | |
|  | 11:00 AM | CSX | Northbound | |
| ***Observations*** | Turkey vultures, gray squirrels | The creek is intersected by a railroad | Rocks, leaves, manicured hiking area, fallen trees, water chestnut seeds, shrubs | |
|  |  |  |  | Loaded |
|  |  |  |  |  |
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