**Day in the Life of the Hudson River 10/10/13 Data**

**(Salt Front RM 69.3)**

**RIVER MILE 18**

**Vicki Garufi - Sarah Lawrence College Center for the Urban River @ Beczak**

**Alethea Lynch, Fox Meadow Elementary School**

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 **22 students 3rd graders, 4 adults**

**Sarah Lawrence College Art of Teaching graduate student helpers 20**

**Latitude – N 40.93813129121615 Latitude – W -73.90288889408111**

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| --- | --- |
| **Macintosh HD:Users:margie:Documents:Snapshot Day:2013:photos:Bezack-3 copysm.jpg** | **Macintosh HD:Users:margie:Documents:Snapshot Day:2013:photos:Bezcak-2 copySM.jpg** |

**Location:** Habirshaw County Park, Seining beach, SLCC@ Beczak, Yonkers, Westchester County

**Area:** 2 acreriverfront county park covered mostly by a grass lawn leading down to the river where it meets a tidal wetland and sandy beach. Propertyused for fishing, boats, seining, field trips and education programs - 60% grassy, 20% parking lot, 20% shore

**Surrounding Land Use:** urban/residential, beach uses

**Sampling Site shoreline:** sandy beach, tidal marsh area covered with vegetation, banks altered, large riprap on shoreline, collected wood/debris in area,

**Plants in area:** no plants in the water

**Water depth –** 3-4 feet

**River Bottom** – muddy (sticky

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 10:00 AM –  | 14°C60°F |  |  |
|  | 11:00 AM –  | 16°C60°F |  |  |
| Wind Speed | Beaufort #2 | 4-6 kts | 6-11 km/hr | NW |
| Weather today | Overcast and very little drizzle for one rotation but it passed  |
| Weather recently | Rain Monday, last 2 days warmer than today |
| Water calm | Small wavelets, leaves rustle |
| ***Water Temperature –*** | 10:08 AM | 19°C 60°F |  |  |
|  | 10:36 AM  | 20°C 65 °F |  |  |
|  | 11:05 AM | 20°C 65 °F |  |  |
|  | 11:35 AM ft. | 21°C 66°F |  |  |
| ***Turbidity – sight tube –***  | 10:26 AM10:53 AM11:19 AM11:50 AM | 33 cm27.5 cm25 cm31 cm |  |   |
| ***Chlorophyll*** | 10:30 AM | 0.4 |  |  |
|  | 11:00 AM | 0.7 |  |  |
|  | 11:23 AM | 1.0 |  |  |
| ***Chemical – collected on the bridge by marsh*** | **Time** | **Temp** | **DO**  | **Saturated** |
| DO – test tabs | 11:00 AM | 20°C | 5 mg/L  | 50% |
| pH – litmus paper | 10:30AM | 66.57 |  | Average 6.5 |
| Salinity – hydrometer  | 10:30 AM –  | 12 ppt 12 ppt14 ppt |  | Average 13 ppt |
| ***Fish Catch*** | ***Number Caught*** | ***Species*** | ***Size of largest*** | ***Notes*** |
| Seine net 30 feet X 4 ft., 1.4 inch mesh  | 40 | Atlantic Silverside |  |  |
| 10:00 - noon | 1 | Banded Killifish |  |  |
|  | 2 | Blue Crab |  |  |
|  | 5 | Moon Jellies |  |  |
|  | 2 | Comb Jellies |  |  |
| ***Tides*** | 10:00 AM |  | rising |  |
|  | 10:30 AM |  | rising |  |
|  | 11:00 AM |  | rising |  |
|  | 1130 AM |  | rising |  |
| ***Currents*** |  |  |  |  |
|  | 10:00 AM. | North | flood |  |
|  | 10:30 AM | North | flood |  |
|  | 11:00 AM | North | flood |  |
|  | 11:30AM | North | flood |  |
|  | 12:00 PM | North | flood |  |
| ***Core Sample*** | ***Entire Length*** | ***Grain Size*** | ***Abiotic*** | ***Biotic*** |
|  | 2 layers in core | Mix of grain sizes | RocksSandBranchCrab shell | Small mud crabworms |
| ***Other Items*** | Monarch butterfly flew across sample area at 11:35 AM, Clam found in marsh sediment, Rat swam across marsh to beach! Canadian geese flying around park, Mallard ducks swim around marsh. |