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

**(Salt Front RM 65.9)**

**RIVER MILE 78**

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**Quiet Cove, Poughkeepsie just north of Marist College**

**Carolyn Klocker and Neil Curry and 3 employees of Cornell Cooperative Extension of Duchess County, plus 7 youth employees from Poughkeepsie HS as part of NCLI**

**Robert Adams & and Peter Kinney from the DEC Fisheries Staff**

**Skip Hoover, G. W. Krieger Elementary School ( (104) 5th grade students,**

**41.44°N and 73.56°W**

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**
Location:** Quiet Cove, Poughkeepsie, Dutchess County

**Area:** Grassy area with parking lot, beach like waterfront

**Surrounding Land Use:** Picnics, boating and fishing – 60% is beach with rip rap banks, 40% previous industrial site

**Sampling Site:** An old industrial area that has been turned into a park. Used by people for picnics, fishing. Shoreline rocky, banks altered with rip rap and wooden bulkhead, boat launch for kayaks and canoes

**Plants in area: none visible**

**Debris in area:** remnants of industrial site and some papers in the water

**Water depth**: 160 cm in the area with concrete embankments

**River Bottom** – muddy in beach area

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| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Wind Speed*** | ***Precipitation & Clouds*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 9:51 AM | 70°F21°C | 1-3 mph N | heavy cloud cover |
|  | 10:16 AM | 68°F20°C | 1-3 mph N | cloud cover/breaks of sun |
|  | 10:59 AM | 68°F21°C | 7-10 mph N | Rain shower & heavy cloud cover |
|  | 12:46 PM | 70°F21°C | 4-7 mph N | heavy cloud cover/storm moving upriver |
| Wind Speed |  |  |  |  |
| Cloud Cover | Heavy cloud cover |  |  |
| Weather today | Cool and cloudy |
| Weather recently | The weather for the past three days has been a mixture of rainy and sunny temps.in the high 60s.  |
| ***Water Description*** |  |  |  |  |
| ***Water Temperature*** | 1:15 PM | 17°C  |  |  |
| ***Turbidity – long site tube*** | 9:40 AM10:00AM10:30 AM12:08 PM12:51 PM | 47 cm39.3 cm31 cm31 cm12.6 | 53 cm38 cm32 cm36.6 cm13.8 cm | 50 cm Avg38.7 cm Avg32.5 cm Avg33.8 cm Avg13.2 cm Avg\* this took place after significant wave action from Coast Guard boat passing  |
| ***Chemical*** | **TIME** | **DO Used kit we provided by no data yet** | **Temp** | **%Saturation** |
|  | 9:40 AM |  | 20 °C  |  |
|  | 10:03 AM |  | 20 °C  |  |
|  | 12:07 PM |  | 20 °C  |  |
|  | 12:42 PM |  | 17 °C  |  |
| **(LaMotte kit color match )** | **Time** | **PH** | **NITRATES** | **PHOSPHATES** |
|  | 9:40 AM | 7.5 | <5 ppm |  |
|  | 10:03 AM | 7 | <5 ppm | <5 ppm |
|  | 12:07 PM | 8 | <5 ppm | <5 ppm |
|  | 12:42 PM | 7.5 | <5 ppm | <5 ppm |
| Salinity |  |  |  |  |
| ***Fish Catch-*** 25 ft. – 4 pulls  | ***Number Caught*** | ***Species*** | ***Length of largest*** | ***Seine -* beach seine** |
| ***9:30-12:30 AM*** | 15 | American Shad  | 9 cm |  |
|  | 2 | Blueback Herring | 5 cm |  |
|  | 1 | Bay Anchovy | 6 cm |  |
|  | 1 | Striped Bass | 7 cm |  |
| **Total count** | **19** | **Total diversity**  | **4** |  |

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| ***Tides –***  | ***Time*** | ***Top of water to top of pier***  | ***water depth*** | **Rising/Falling** |
|  | 9:45 AM | 50 cm |  | High/still |
|  | 10:11AM | 54 cm  |  | falling |
|  | 10:53 AM | 73 cm |  | falling |
|  | 12:12 PM | 93 cm |  | falling |
|  | 12:46 PM | 100 cm |  | falling |
| ***Currents*** | ***TIME*** |  ***Time over 10 meters*** | ***Cm/sec*** | ***Direction*** |
|  | 9:45 AM |  |  | Still |
|  | 10:11AM | 135 secs  | 7.4 cm/sec | Ebb  |
|  | 10:53 AM | 90 secs | 11.11 cm/sec | Ebb |
|  | 12:12 PM | 114 secs | 8.77 cm/sec | Ebb |
|  | 12:46 PM | 100cm | 10 cm/sec | Ebb |
| ***Traffic*** | 10:51 AM | Oil train |  | Southbound |
|  | 12:21 PM | Coastguard Vessel |  | Southbound |
|  | 1:05 PM | Sailboat |  | Northbound |