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

**RIVER MILE 78**

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

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

**Robert Adams & and Jessica from the DEC Fisheries Staff**

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

**41.44°N and 73.56°W
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*** | ***Wind Speed*** | ***Direction*** | ***Precipitation & Clouds*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 9:30 AM | Beaufort 2  | South  | Partial cloud cover |
|  | 10:16 AM | Beaufort 2  | South | Partial cover/breaks of sun |
|  | 10:59 AM | Beaufort 1 | South | Part sun |
|  | 12:46 PM | Beaufort 2  | South | Part sun |
| Cloud Cover | Clouds & sun |  |  |
| Weather today | Rainy and sunny with some snow flurries |
| Weather recently | The weather for the past three days has been a mixture of rainy and sunny temps.in the high 60s.  |
| ***Water Temperature*** | 1:15 PM | 17°C  |  |  |
| ***Turbidity – long site tube*** | 9:34 AM10:10AM10:51 AM12:12 PM12:45 PM | 18 cm18.3 cm21 cm5.6 cm13 cm | 21cm21cm16 cm6.2 cm10.4 cm | 19.5 cm Avg19.5 cm Avg18.5 cm Avg5.9 cm Avg11.8 cm Avg  |
| ***Chemical*** | **TIME** | **DO**  | **Temp** | **%Saturation** |
| LaMotte Kit | 9:30 AM |  | 12 °C  |  |
|  | 10:09 AM | 4 ppm | 12°C  |  |
|  | 11:00 AM | 4ppm  | 12°C |  |
|  | 12:20 PM |  | 12°C |  |
|  | 12:47 PM | 0 ppm | 12°C |  |
| **(LaMotte kit color match )** | **Time** | **PH** | **NITRATES** | **PHOSPHATES** |
|  | 9:30 AM | 8 | <5 ppm | 2 ppm |
|  | 10:09 AM | 7.5 | <5 ppm | 2 ppm |
|  | 11:00 AM | 8 | <5 ppm | 2 ppm |
|  | 12:20 PM | 8 |  |  |
|  | 12:47 PM | 8 | <5 ppm | 2 ppm |
| ***Fish Catch-*** 25 ft. – 5 pulls  | ***Number Caught*** | ***Species*** | ***Length of largest*** | ***Seine -* beach seine** |
| ***9:00-12:30 AM*** | 1 | Striped Bass  | 7.6 cm | **DIV – 4****TOTALS - 15** |
|  | 2 | White Perch | 18 cm |  |
|  | 10 | Spottail Shiner | 7.6 cm |  |
|  | 2 | Smallmouth Bass | 11.4 cm |  |
| **Macroinvert** | 1 | Bluecrab  | 4 cm | ***DIV - 1******TOTAL - 1*** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Tides –***  | ***Time*** | ***Top of water to top of pier***  | ***water depth*** | **Rising/Falling** |
|  | NR |  |  | High/still |
| ***Currents*** | ***TIME*** |  ***Time over 10 meters*** | ***Cm/sec*** | ***Direction*** |
|  | 9:30 AM | 488 cm/minute | 8/cm /sec | flood |
| ***Traffic*** | 11:46 AM | Red Tug pulling empty barge |  | Southbound |
|  | 12:36 PM | Barge  | Blue & white | Northbound |
|  | 12:55 PM | Freight train |  | Southbound |