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

**RIVER MILE 115**

**Cohotate Preserve, Athens, Greene Co.**

**Liz LoGuidice, Cornell Cooperative Extension of Greene County**

**Tony Loughran, Coxsackie Athens High School, Env. Sci. - 23 students, 12th**

**Sue Boyle, Cairo Durham HS – 27 students, 9th**

**(adults – 2 teachers, 4 chaperones, 2 instructors)**

**N 42.24410 – W 73.8362**

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**Location:** Cohotate preserve – Ice house site –

**Area:** The ice house is a flat, grassy are on the river with several cotton wood trees. It is situated at the bottom of a forested hill. Large waterfront vegetated. The artificial shoreline of the bulkhead dominates the eastern shore. Shoreline is characterized by tidal mudflats. Area is used recreationally for picnicking, hiking and fishing. Ice house is approximately ½ miles walk from the parking area.

**Surrounding Land Use:** Forested 85%, Beach 10%; Urban/residential 5%

**Sampling Site:** Beach area, Shoreline includes tidal mud flats in the southeast, with a rocky shore further south. To the north of the tidal mud flat there is an old bulkhead, with another tidal flat to the north of the bulkhead, rip rap in sections.

The banks have been altered at the bulkhead (entire ice house area is likely dredge spoil), wood and debris are collected in the southern mudflat, there is lots of vegetation and no pipes entering the water. Brick pieces on shoreline

**Water Depth:** NR

**River Bottom:** Muddy, rocky, weedy

**Plants in area:** NR

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| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 9:50 AM10:32 AM | 15°C13 | 59°F54 |  |
| Wind Speed |  |  |  |
| Cloud Cover | Overcast |  |  |  |
| Weather today | Cool and cloudy |
| Weather recently | Cool  |
| ***Water Temperature*** | 9:55 AM | 11.7°C53°F |  |  |
|  | 10:35AM | 12°C55°F |  |  |
|  | 11:15AM | 12°C55°F |  |  |
| ***Water Surface*** | Choppy |  |  |  |
| ***Turbidity***  | 10:50AM11:41AM | 86 cm88 cm |  |  |
| ***Chemical*** |  |  |  |  |
| DO Pasco Probe | 9:45 AM10:3011:15 | 8.9 ppm9.79.67 | 12 °C11.411.7 | 88%89%88% |
| pH – Pasco Probe | 11:15AM | 7.47.37.3 | Average 7.33  |
| Conductivity – Pasco probe | 9:45 AM10:45AM11:15AM | 269.1 μs/cm321215 |  | Average 301.7 μs/cm |
| Nitrates | 10:00AM11:00AM | 1.0 NO3 mg/l0.4-0.6 NO3 |  |  |
| Phosphates | 10:00AM11:00AM | 0-0.1 mg/l0-0.1 |  |  |
| ***Fish Catch****40 ft. X 30 ft.* | ***Total #*** | ***Species –*** | **Size** | ***Totals*** |
| **FISH – 9:45** **6 seines**  | 436015 | Spottail ShinerBanded KillifishBlueback Herr. | 10 cmNR8cm | ***Seine #1*** |
| **Diversity = 10** | 18 | Spottail Shiner | 8 cm | ***Seine #2*** |
| **Total Catch = 266** | 12116 | White PerchSpottail ShinerBanded KillifishDarterBluegill Sunfish | NRNRNRNR13cm | ***Seine #3*** |
|  | 9124311211 | Banded KillifishAlewifeWhite perchSpottail ShinerDarterBlueback Herrin.Bluegill SunfishBlack Crappie |  | ***Seine #4*** |
| 21 | Golden ShinerPumpkin Seed |  | ***Seine #5*** |
| 10171711 | DarterBanded KillifishBluegill SunfishSpottail ShinerWihte Perch |  | ***Seine #6*** |
| ***Tide***  | 9:44 AM10:43AM11:35AM | Falling/EbbEbb/SluggishFlood |  |  |
| **Boating - Commercial** | 10:07AM 10:10AM | Red Flag Bouchard | PetroleumB#264 | LightSouthbound |