Day in the Life of the Hudson River 10/16/18 Data COHOTATE PRESERVE

Coxsackie, NY - RIVER MILE: 115

Salt Front: ~RM 24

Coxsackie Athens High School, Environmental Science 18 students 12th grade, 1 adults Andrew Randazzo, Cornell Cooperative Extension of Greene County

Anthony Loughran, Coxsackie Athens HS Latitude 42°14.642' N & Longitude 73° 50.359'W





Location: Cohotate Preserve- Ice house site

Area: The ice house is flat, grassy, and on the river with several cotton wood trees. It is situated at the bottom of a forested hill. Large waterfront vegetation. 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 mile walk from the parking area.

Surrounding Land Use: 85% forested, 10% beach, 5% urban/residential **Sampling Site:** Beach area, shoreline includes tidal mud flats in the southeast and a rocky shore further south. To the north of the tidal mud flat there is an old bulkhead with another tidal flat to the nor of the bulkhead, riprap 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 a lot of vegetation and no pipes entering the water. Brick pieces on the shoreline.

Shoreline: 10% sandy, 45% muddy, 45% rocky

Water Depth: 2 feet

Plants in area: 5% Spatterdock, water chestnut seeds

River Bottom description: muddy, weedy

| ITEM | Time | Reading | | Comments |
|---------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Physical | | | | |
| Air Temperature | 9:15 AM 10:59 AM 12:00 PM | 10 °C 13.34 °C 15.56 °C | 50°F 56°F 60°F | |
| Wind Speed: anemometer | | 3 mph | 2.6 knots | |
| Weather today | No rain, clear | | | |
| Weather recently | Rain | | | |
| Water Temperature | 9:30 AM | 15 ° C | 59°F | |
| Turbidity - long sight tube | 10:00 AM | 75cm, 78cm, 76cm | | Average: 76.5cm |
| Chemical | | | _ | |
| Salinity- Low Range Quantabs | 9:30 AM | 38-48 ppm Cl ⁻ | ~77.68 ppm Total salinity | |
| DO – Sparkview Pasco Probe | Time | Тетр | ppm DO | % saturation |
| | 9:40 AM 9:50 AM | 15 ° C 15 ° C | 8.05 8.17 | 80% 80% |
| pH – meter | 9:25 AM | 7.69 | 7.59 | Average 7.65 |
| Fish | Number | Name | Length of longest | |
| Seine | 72 1 2 14 13 7 2 11 | Spottail Shiner Brown Bullhead Channel Catfish American Shad Banded Killifish White Perch Striped Bass Tessellated Darter | V | Comment: *Site reported one Striped Killifish which would be unrealistic so we added to the banded killifish total. |
| Fish Totals | TOTAL: 122 | Diversity: 8 | | |
| Macroinvertebrates | Number | Name | Length of longest | |
| | 18 | Blue Crab | | |
| Macroinvertebrate Totals | TOTAL: 18 | Diversity: 1 | | |
| Boat Traffic | Name | Color | North or South | Loaded or Light |
| 9:50 AM | Boat | Gray | North | Light |
| 11:27 AM | Boat | Blue and White | North | Light |