

**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



Location: Cohotate preserve – Ice house site –

Area: The ice house is a flat, grassy area 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 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

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:50 AM 10:32 AM	15°C 13	59°F 54	
Wind Speed				
Cloud Cover	Overcast			
Weather today	Cool and cloudy			

Weather recently	Cool			
Water Temperature	9:55 AM	11.7°C 53°F		
	10:35AM	12°C 55°F		
	11:15AM	12°C 55°F		
Water Surface	Choppy			
Turbidity	10:50AM	86 cm		
	11:41AM	88 cm		
Chemical				
DO	9:45 AM	8.9 ppm	12 °C	88%
Pasco Probe	10:30	9.7	11.4	89%
	11:15	9.67	11.7	88%
pH – Pasco Probe	11:15AM	7.4 7.3 7.3	Average 7.33	
Conductivity – Pasco probe	9:45 AM 10:45AM 11:15AM	269.1 µs/cm 321 215		Average 301.7 µs/cm
Nitrates	10:00AM 11:00AM	1.0 NO3 mg/l 0.4-0.6 NO3		
Phosphates	10:00AM 11:00AM	0-0.1 mg/l 0-0.1		
Fish Catch <i>40 ft. X 30 ft.</i>	Total #	Species –	Size	Totals
FISH – 9:45 6 seines	43 60 15	Spottail Shiner Banded Killifish Blueback Herr.	10 cm NR 8cm	Seine #1
Diversity = 10	18	Spottail Shiner	8 cm	Seine #2
Total Catch = 266	1 2 1 1 6	White Perch Spottail Shiner Banded Killifish Darter Bluegill Sunfish	NR NR NR NR 13cm	Seine #3
	9 1 2 43 11 2 1 1	Banded Killifish Alewife White perch Spottail Shiner Darter Blueback Herrin. Bluegill Sunfish Black Crappie		Seine #4
	2 1	Golden Shiner Pumpkin Seed		Seine #5

	10 17 17 1 1	Darter Banded Killifish Bluegill Sunfish Spottail Shiner White Perch		<i>Seine #6</i>
<i>Tide</i>	9:44 AM 10:43AM 11:35AM	Falling/Ebb Ebb/Sluggish Flood		
Boating - Commercial	10:07AM 10:10AM	Red Flag Bouchard	Petroleum B#264	Light Southbound