

**Snapshot Day 10/14/10 Data
(Salt Front RM 36)
RIVER MILE 115**

Cohotate Preserve, Athens, Greene Co.

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**Tony Loughran, Coxsackie Athens High School & Rachel Anderson Greenville HS,
33 students, 11-12th**



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 83%, Beach 5%; Urban/residential 7%; Industrial Commercial 5%; (average of 3 groups)

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.

Water Depth: We fish at the southern mud flat, which has a muddy bottom and a variable depth, depending on tide.

River Bottom: Muddy, sand in sediments and some rocks, bigger rocks towards shore

Plants in area: Cover 30% - 10% water celery, Arrow arum, Arrowhead, Jewelweed, pickerelweed, spatterdock. wildrice

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:40 AM	7.9 °C	46.2°F	
	10:23 AM	9.7	49.4	
	11:05 AM	11.2	52.1	
Wind Speed	9 AM	0 mph		
	10:23 AM	3 mph	SE	
	11:05 AM	3 mph	SE	
Cloud Cover	Mostly cloudy			<i>Winds from NW</i>
Weather today	fog burned off and became partly sunny			
Weather recently	lovely			
<i>Water Temperature</i>	9:45 AM	13°C 56°F		
	10:33AM	14.2°C 57.5°F		
	11:25AM	14.5°C 58.1°F		
<i>Water</i>	calm			
<i>Turbidity</i>	11:05 AM	20 JTU 20 JTU		
<i>Chlorophyll</i>	9:30 AM	0.7		
<i>Chemical</i>				
DO (drop count kit)	9:55AM	10.0 ppm	14°C	95%
pH – color match kit	9:55 AM	7.5 7.5 7.5		
Salinity	10:00AM	<Quantab units	0.5 0.6 0.8	<28 ppm chloride
<i>Fish Catch</i> 60 ft. seine X 30	<i>Total #</i>	<i>Species – 7 species & 21</i>	<i>Length</i>	TOTALS

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	5	Tesselated Darter		
	5	Spottail Shiner		
	1	Bluegill sunfish		
	1	Golden shiner		
	8	Banded Killifish		
	1	Mummichog (male)	* looks like a banded killifish, but has a spot on the dorsal fin	
<i>Tides</i>	9:35 AM	2 cm		
	10:05AM	0 cm	Falling	
	10:45AM	0 cm	Falling	
<i>Currents</i>	Cm/60 sec	Cm/sec	Kts	flow
9:45AM				South/Ebb
10:24 AM	400	6.67 cm/sec	0.13 kts.	South/ebb
11:15 AM	40	0.5	0.010	North/still
<i>Core Description</i>				
<i>Shipping</i>	10:50	Barge &	Noelle Cutler	Northbound Loaded
		Tug	Kimberly Poling	Green & white
<i>Other</i>	10:05 AM	Flock of geese		
	10:30 AM	Cormorant		
	10:25 AM	Flock of geese		
	10:45 AM	Squirrel and 2 wrens		