

**Snapshot Day 10/18/11 Data
(Salt Front RM 35.7)
RIVER MILE 123**

River Front Park, Cossackie

**Sarah O'Connor, Albany Academy for Girls – 25 students 5th graders
NYSDEC Five Rivers SCA Members Jen Hazen and Amanda Reynolds
Latitude N 42 degrees 22.2' Longitude W 73 degrees 47.756"**

Location: River front park with parking area, boat launch, picnic

Area: Parkign area and cement boat launch with fishing and picnic area

Surrounding Land Use: Forested 15%, Beach 30%, parking area, cement boat launch, picnic area and fishing 55%

Sampling Site: Beach, covered with vegetation, rip rap altered banks

Plants in area:

Water depth:

River Bottom –rocky bottom

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:45 AM 11:15 AM 12:50 PM	15 °C 15 19		
Wind Speed	9:45 AM 11:15 AM 12:50 PM	Beaufort 0 S Beaufort 1 S Beaufort 1 S	Calm <1 mph 1-3 mph 1-3 mph	Water choppy
Cloud Cover				
Weather today				
Weather recently				
<i>Water Temperature</i>	9:45 AM 11:15 AM 12:50 PM	11 °C 13 15		
<i>Turbidity-Sight Tube</i>	9:45 AM	45 45.4 45.8 47		
	11:15 AM	34.2 39.6 (Before boat)	16 19 20 (After waves)	
	12:50 PM	10.4 11.6	25.8 37.4	
<i>Turbidity Secchi</i>	9:45 AM 11:15 AM	½ meter ½ meter		

	12:50 PM	½ meter		
Chlorophyll	9:45 AM 11:15 AM 12:50 PM	0.5-0.7; 0.7 0.2* 0.5-0.7	*coffee filter used	
Chemical				
DO (drop count)	9:45 AM 11:15 AM 12:50 PM	9.0 mg/L 8.0 8.0		
pH				
Salinity Quantabs	9:45 AM 11:15 AM 12:50 PM	Below detection	<.005 mg/L) or < 29 Cl-	
Fish Catch	Number Caught	Species	CPUE	Seine
<i>11:15-12:00</i>	3	Banded Killifish		
	1	Black Crappie		
	16	Shiners		
	3	Banded Killifish		
<i>12:55-1:40 PM</i>	1	Banded Killifish		
	1	Shiner		
	1	Pumpkinseed		
	2	Bay Anchovy		
	1	White perch		
	1	Striped bass		
	1	bluefish		
	1	*Striped killi??	*This fish is rare in the Hudson and limited to the saltier end so this must be a mistaken ID	Perhaps a mummichog which like the striped does have a chunkier appearance and rounded tail??
Tides	9:45 AM 11:15 AM 12:50 PM	Going out whole time		
Currents	9:45 AM 11:15 AM 12:50 PM	South South South		
Core	Smell	Texture	Color	Composition
<i>10:25 AM</i>	Bad milk smell,	Sandy Rough	Brown Grey	Rocks, glass, sand

<i>11:15 AM</i>	Metal	Fibery, sandy, hard	Brown grey	Rocks, sand, plant
<i>1:45 PM</i>	Pennies and fish	Soupy and gravelly	Black brown, red	Rock, soil
<i>Traffic</i>				
10:20 AM	Barge & Tugboat		Southbound –	
10:45 AM	Barge with crane		Southbound	
11:05 AM	American Cruise Lines “Independence”	Red/white/blue stack	Southbound	*Returned upriver 1:55 PM
11:40 AM	Barge with tugboat		Southbound	
<i>Other Items</i>				

** Expect not the same ship since it was spotted at RM 78 at 12:50 PM and the schedule suggests it runs a 6-7 day excursion along the Hudson moving all in one direction.*