

**Day in the Life of the Hudson River 10/13/22**

**Coxsackie Boat Launch**

**RIVER MILE: 123**

*Salt Front: ~ RM76*

**Coxsackie ES- Jennifer Rausch**

*45 students & 26 adults*

*Help from Park Rangers*

**Latitude N 42° 22.2' & Longitude W 73° 47.756"**



**Location:** Coxsackie Boat Launch, Coxsackie, NY

**Area:** Coxsackie Boat Launch and park

**Sampling Site:** Concrete Bulkhead

**Surrounding Land Uses:** Village boat launch and park

**Shoreline:** Rocky

**River Bottom:** NR

**Water:** Choppy

**Plants in the Water:** None

\*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
<i>Physical</i>					
<i>Air Temperature-</i>	10:44 AM	17.8°C	64°F		
<i>Wind Speed:</i>	10:44 AM	<i>Anemometer</i> 1.3 mph	<i>Beaufort</i> NR	<i>Direction</i> NR	
<i>Weather today</i>	10:44 AM	Cloud Cover - Overcast >75%	Drizzle/Light Rain		
<i>Weather the past 3 days:</i>	Sunny and 55-60°F				
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Water Height (cm)</i>	
Used rocks along the shore to see the change	9:40 AM-11:30 AM	Falling		NR	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	10:00 AM	9.1	NR	NR	Ebb
	10:44 AM	6.7			Ebb
	11:11 AM	4.2			Ebb
<i>*Water Temperature-</i>	9:58 AM	9.4°C	49°F		
<i>*These are very low compared to other sites</i>	10:30 AM	6.7°C	44°F		
	11:09 AM	5°C	41°F		
<i>Turbidity- Long Sight Tube (120 cm)</i>	10:27 AM	38 cm			
	11:00 AM	29 cm			
	11:23 AM	42 cm			
<i>Chemical</i>					
<i>Salinity-LR Quantabs</i>	9:58 AM	29 ppm Cl- for each	52 ppm for each		
	10:30 AM				

	11:09 AM				
<b>Standardized Salinity</b> – LR Quantabs	10:38 AM	52 ppm			
<b>DO</b> – Hach Drop Count Kit	<i>Time</i> 10:00 AM 10:30 AM 11:09 AM	<i>Temp</i> 9.4°C 6.7°C 5°C	<i>ppm DO</i> 4 ppm *expect error 9 ppm 8 ppm	<i>% saturation</i> NR	
<b>pH</b> – NR					
<b>Nitrates</b> - NR					
<b>Phosphates</b> - NR					
<b>Alkalinity</b> - NR					
<b>Biological-</b>					
<b>Fish – Seine</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	<b>Length of smallest</b>	
9:40 AM-11:15 AM - 4 seines	8	Alewife	< 8 cm		
	1	Spottail Shiner	< 8 cm		
	16	Banded Killifish	< 8 cm		
	1	White Perch	< 8 cm		
	1	Striped Bass	< 8 cm		
<b>Fish Totals</b>	<b>TOTAL: 27</b>	<b>Diversity: 5</b>			
<b>Macroinvertebrates</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	<b>Length of smallest</b>	
	2	Blue Crab	~ 2 cm		
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 2</b>	<b>Diversity: 1</b>			
<b>Sediment Core – NR</b>					
<b>Length</b>	<b>H2S smell</b>	<b>Oxid Top</b>	<b>Oil</b>	<b>Grain Size</b>	<b>Other Features</b>
<b>Boats-</b>					
	<b>Time</b>	<b>Name</b>	<b>Color</b>	<b>North/Southbound</b>	<b>Light/Loaded</b>
Commercial	10:39 AM	Barge w/ tug	Teal & White	Northbound	Loaded
	11:04 AM	Barge w/ tug	Black & Red	Southbound	Light
Recreational	9:45 AM	Riverkeeper	Silver	Northbound	
	10:05 AM	Sailboat	NR	Southbound	
	11:22 AM	Speedboat	White	Southbound	