

Day in the Life of the Hudson River 10/4/12 Data
RIVER MILE 90
George Freer Memorial Park, Port Ewen, Ulster County
Meg Meisch, Rondout Valley High School
150 students 9th-10th graders, 15 adult helpers
GPS Latitude 41°907 N Longitude 73°978 W

Location: George Freer Memorial Park, Town of Ulster, Ulster, NY

Area: Park space with grassy area, used for picnics, fishing and boating

Surrounding Land Use: 30% urban/residential; 20% forested; 40% industrial/commercial

Sampling Site: Shore is beach, muddy and rocky along the water, banks have been altered with piping noted entering the river

Plants in area: no

Water depth:

River Bottom : muddy, rocky

Plants in sampling area: water chestnut 35% of the area, pickerel weed 5% of the sample area, dotted smartweed 2% of the sample area.

About the site: area has bricks and brick pieces, water chestnut seeds, goose droppings.

Any possible impacts to the data you are collecting? Rain may have impacted the data

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:40 AM	22°C		
Wind Speed	None reported		East (direction noted but no beaufort)	
Cloud Cover	Overcast, foggy			
Weather today	Rain, drizzle to heavy at times			
Weather recently	Monday sunny, Tuesday and Wednesday rainy			
<i>Water Temperature</i>	10:39 AM	19 °C		
	12:50 PM	20 °C		
	1:00 PM	20 °C		
<i>Water calm</i>	yes			
<i>Turbidity long Site tube</i>	10:00 AM	46 cm 54 cm 50 cm		Average 50 cm
<i>Chlorophyll</i>	10:10AM	0.01		
<i>Chemical</i>				
DO Test tabs	10:39 AM	19 °C	8 ppm	85% saturated

	12:50 PM	20 °C	8 ppm	90% saturated
	1:00 PM	20 °C	8 ppm	90% saturated
pH –				
Salinity - Quantab	1.2 scale	28 ppm Cl-	Converts to 51 ppm total salinity	
<i>Fish Catch</i> 30'seine X 4 ft.	<i>Number Caught-</i>	<i>Species -</i>	<i>Largest Size</i>	<i>Diversity & Totals</i>
	6	Eels	6 cm	<i>Div = 6</i>
	4	Sunfish	16 cm	<i>Totals = 33</i>
	1	Darter		
	20	Herring	3-5 cm	
	1	Pumpkinseed		
	1	blue crab		
<i>Also collected</i>		Zebra mussels		
<i>Tides</i>	12:00 PM	34 cm	rising	
	12:15 PM	40 cm	Rising	
	12:30 PM	50 cm	rising	
	12:50 PM	54 cm	rising	
<i>Currents</i>	12:30 PM	213 cm/60 sec	3.55 c/sec	0.07 knots - Ebb
<i>Commercial Traffic</i>	11:24 AM	Barge-red	North	Loaded
	11:59 AM	Tug-blue	North	Light
	11:55 AM	Train – silver	North	Loaded
<i>Recreational Traffic</i>	11:54 AM	Sailboat – white	North	Light
	12:17 PM	Sailboat White	South	Light
	1:05 PM	Kayak – yellow	South	Light
<i>Core –</i>	<i>Length</i>	<i>Rare</i>	<i>Common</i>	<i>Abundant</i>
10:00 AM	6 inches – no oxidized top	Gravel	Sand, Coal	Brick
<i>Other Items</i>	seagulls, cranes			