

**Day in the Life of the Hudson River 10/10/13 Data
(Salt Front RM 69.3)**

RIVER MILE 90

George Freer Memorial Park, Port Ewen, Ulster County

Meg Meisch, Rondout Valley High School

54 students 9th graders, 6 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, bits of brick and charcoal on beach

Plants in area: no

Water depth:

River Bottom : muddy, rocky

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

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:11 AM 11:12 AM 12:27 PM	11°C 12.3 13.4	51.8 °F 54.1 56.1	
Wind Speed	10:22 AM 12:30 PM	1.8 m/s 1.1 m/s	North	
Cloud Cover	Mostly cloudy			
Weather today	No rain			
Weather recently	Sunny and warmer			
<i>Water Temperature</i>	9:53 AM	16.7°C		
	10:45 AM	16°C		
	12:21 PM	17 °C		
<i>Water surface</i>	choppy			
<i>Turbidity long Site tube</i>	10:00 AM 10:38 AM 11:56 AM 12:28 PM	58.5 cm 59.25 cm 33.5 cm 10.32 cm		
<i>Chlorophyll</i>	10:00AM 10:38 AM 10:56 AM	0.3 0.5 0.1		
<i>Chemical</i>				
DO	Time	Temp °C	DO	% saturated

Wards D.O.				
	9:53 AM	16°C	8 ppm	82%
	10:45 AM	16°C	6	62%
	11:17 AM	15°C	5.5	55%
	12:36 PM	17°C	8 ppm	87%
pH – indicator solution	10:00 AM	7.4 7.9 7.9		Average 7.7
	10:34 AM	7.8 7.8 7.4		Average 7.6
	12:00 PM	7.8 7.8 7.8		Average 7.8
Salinity - Quantab	1.2 scale	28 ppm Cl-	Converts to 51 ppm total salinity	
Fish Catch 30'seine X 4 ft.	Number Caught-	Species -	Largest Size	Diversity & Totals
	2	Pumpkinseed	18 cm	Div = 4
	2	Bluegill	19 cm	Totals = 6
	1	Killifish	4 cm	
	1	American Eel	16 cm	
Also collected	6	Snails	1-2 cm	
Tides	10:00 AM	25.4cm	start	
	10:30 AM	12.7 cm	falling	0.42 cm/min
	11:08 AM	22.86 cm	Falling (moved stick)	
	11:53 AM	11.42 cm	falling	0.25 cm/min
Currents	Time	Cm/30 secs	Cm/sec	Knots – Ebb Flood
	10:06 AM	274.3 cm/30 sec	9.1 cm/sec	0.18 knots – South/Ebb
	10:43 AM	152.4	5.1	0.10 -S/Ebb
	11:00 AM	88.9	3.0	0.06 -S/Ebb
	12:07 AM	342.9	11.43	0.22 -S/Ebb
	12:40 AM	66.0	2.2	0.04 -S/Ebb
Recreational Traffic	10:05 AM	Sailboat –	North	
	10:46 AM	Speedboat White	North	
Core –	Length	Rare	Common	Abundant