

Day in the Life of the Hudson River 10/20/16 Data
(Salt front ~ RM83)
RIVER MILE 94
Robert Post Park, Kingston, Ulster County
Meg Meisch, Rondout Valley High School
65 students 9th -12th graders, 6 adult helpers
GPS Latitude 42°01 N Longitude 73°94 W

Location: Robert Post Memorial Park, Town of Ulster, Ulster County, NY

Area: Park space with fishing dock and boat launch

Surrounding Land Use: 30% urban/residential; 10% forested; 10% Beach, 50% parkland

Sampling Site: riprap on shoreline and broken concrete pieces on the shore

Water depth:

River bottom : rocky

Plants in area - none

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>	
<i>Physical</i>					
Air Temperature	10:47 AM 1:18 PM	16°C 20 °C	62°F 68°F		
Wind Speed	Most of day no wind	Beaufort 1	anemometer – 4 mph	NE	
Cloud Cover	51-76%	Mostly cloudy			
Weather today	No precip – became cloudier during the day				
Weather recently	80 degrees and unusually warm, dry				
<i>Water Temperature</i>	<i>Time</i>	<i>°C</i>	<i>°F</i>	AVERAGE	
	9:36 AM 11:03 AM 1:00 PM	15, 15, 16°C 16,16,17 °C 62.7,64.4,64.4°C	59, 59, 60.8°F 60.8,60.8,62.6°F 62.7,64.4,64.4°F	15.3 16.3 17.7	59.6 61.4 63.8
<i>Water surface</i>	calm				
<i>Turbidity long Site tube</i>	11:02 AM	20 cm 49 cm 40cm		36.3 cm Avg	
<i>Chemical</i>					
DO Hach Kit	Time	Temp °C	DO	% saturated	
	12:30 PM	18°C	9 ppm	95%	
pH – Litmus Paper	10:20 AM	5 5 5		Average 5	
Salinity -	11:05 AM	Quantab LR	32 ppm Cl-	Converts to	

Quantab			32 ppm Cl- 32 ppm Cl-	58 ppm total salinity
<i>Fish Catch</i> <i>35' seine X 4 ft.</i>	<i>Number</i> <i>Caught-</i>	<i>Species -</i>	<i>Largest Size</i>	<i>Diversity &</i> <i>Totals</i>
<i>11 seines -</i> <i>9:40-1:30 PM</i>	19	mummichog		<i>DIV - 11</i>
	14	Spottail Shiner		<i>TOTALS =</i> <i>162</i>
	2	Golden Shiner		
	7	White Perch		
	102	Banded Killifish		
	1	Catfish		
	10	Pumpkinseed sunfish		
	3	Blueback herring		
	2	Darter		
	1	Bluegill Sunfish		
	1	Black Crappie		
<i>Macroinvert</i>	2	Blue Crab		<i>DIV- 2</i>
	100+	Zebra Mussels		<i>TOTALS -</i> <i>102</i>
<i>Tides</i>	9:46AM	17.5 cm	start	
	10:34 AM	12 cm	Falling	0.11 cm/min
	10:55 AM	9 cm	Falling	0.14 cm/min
	11:20 AM	6.5 cm	Falling	0.10 cm/min
	12:19 PM	9 cm	Rising	0.04 cm/min
	12:39 AM	15 cm	Rising	0.3 cm/min
	12:55 PM	20 cm	Rising	0.3 cm/min
	1:06 PM	24 cm	Rising	0.4 cm/min
	1:22 PM	29 cm	Rising	0.31 cm/min
<i>Currents –</i> <i>Time</i>	<i>Cm/30 secs</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>N/S – E/F</i>
9:50 AM	383	12.77	0.25	S - E
10:44 AM	68	2.26	0.04	S - E
12:07 PM	220	7.33	0.14	N – F
12:43 PM	184	6.13	0.12	N – F
1:17 PM	364	12.2	0.24	N – F
<i>Sediment Core</i>	<i>Length</i>	<i>Rare</i>	<i>Common</i>	<i>Abundant</i>
	20 cm core -	Sand	Clay Gravel	Mud Brick