

**Day in the Life of the Hudson River 10/10/13 Data
(Salt Front RM 69.3)
RIVER MILE 58a**

**Plum Point/Kowawese, New Windsor, Orange County, NY
Rebecca Foster-Faith, Bishop Dunn MS
28, 7th grade students, 6 adults
GPS Latitude 41°27'47.67"N Longitude 74°0'42.88"W**



Location: Sandy beach at Kowawese, New Windsor, Orange County, Public Shore,
Area: Sandy beach bordered by forested area and parking lot. Used for picnic, fishing, kayaking
Surrounding Land Use: Forested 80%, Beach 20%,
Sampling Site: sandy beach (cove), rip rap in area of sampling site, debris in the area such as broken concrete, docking
Plants in area: 1% of area has plants
River Bottom – sandy, weedy, rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:30 Am	13°C 55°F		
Wind Speed	Beaufort #2	3 mph	NE	
Cloud Cover	overcast		light drizzle < 1"	
Weather today	Minor drizzle			
Weather recently	Raining Monday, slightly warmer			
<i>Water Surface</i>	choppy			
<i>Water Temperature</i>	9:55 AM	6 °C °F		
	10:48 AM	17 °C		
	10:30 AM Tom Lake	18.3°C 65°F		
	12:12 PM	18 °C		
	1:05 PM	10 °C		
<i>Water Surface</i>	Choppy			

Turbidity <i>Secchi disk</i>	9:53 AM	20 cm		Average of 3 18.3 cm
	10:46 AM	15 cm		
	12:35 PM	20 cm		
Chlorophyll	10:00 AM	0.1 color chart	10:55 AM	0.1
	12:10 PM	0.2	1:00 PM	0.1
Chemical				
DO	TIME	Temp	DO	% Sat
Averaged data		12.75 °C	16.75*	*seems too high
pH – litmus paper	9:36 AM 10:36 AM 12:22 PM 12:47 PM	6.0 6.0 7.0 7.0		Average 6.5
Salinity – Tom Lake reading	9:30 AM			2.50 ppt
Test strips	9:42 AM 10:45 AM 12:32 PM		642 ppm Cl- all 3 times	1160 mg/L TS
Fish Catch 30 ft. ‘ with ¼ inch mesh – circle pull	Species	Count	Size of largest	Totals
10:30 AM-11:45 AM	Spottail Shiner	1	75 mm	DIVERSITY - 3
4 seines	Striped Bass	1	60 mm (yoy)	TOTALS - 5
	American Shad	3	110-113 mm (yearling)	
CPUE-	Seine 1	1 fish	30 ft. pull	0.003
	Seine 2	0	30 ft.	0
	Seine 3	3	30 ft.	0.01
	Seine 4	0	30 ft.	0
	Seine 5	1	30 ft.	0.003
Tides	Time	Height in cm	Rate of change	Rising/falling
	9:38 AM	15 cm		
	10:55 AM	10 cm	Falling	
	11:52 AM	17.5 cm	Rising	
	12:15 PM	27.5 cm	Rising	
	12:45 PM	35 cm	Rising	
	1:06 PM	45 cm	Rising	
Currents	Cm/30 sec	Cm/sec	Kts	N/S & E/F/S
9:50 AM	317.5	10.6	0.21	N Flood
10:40 AM	142	4.75	0.09	N Flood
12:05 PM	200	6.7	0.13	N Flood
12:55 PM	245	82	0.16	N Flood
Core – not work	TIME	Description	Common	Rare