

Day in the Life of the Hudson River 10/04/12 Data

RIVER MILE 25E

Matthiessen Park, Irvington

**Philip Levine and Joanna Morabito- Irvington Middle School Sixth Grade (144) and
Irvington High School Marine Science Class 23 students, 11/12th graders**

Latitude 41° 2' 30" N Longitude 73° 52' 32" W



Area: Matthiessen Park, Village of Irvington, Westchester County

Surrounding Land Use: 40% grass, 10% beach, 5 % forested, 45% river

Sampling Site: Matthiessen Park

Plants:

Water Depth: 4 feet

River Bottom: Mud, Sand, Rocks. The further you went out the muddier it got.

Weather Conditions: Humid, Warm, Foggy.

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature	9:15 am 10:23 am	22°C	21°C	
Wind Speed	9:30 am	No wind	No wind	
Cloud Cover	9:30 am 11:30 am	100%	100%	
Weather today	Overcast, humid, foggy, muggy, warm.			
Weather recently	Rainy, humid.			
Water Surface				
Water	10:30 am	20°C	18°C	

Temperature –	8:30 am			
Turbidity –water chemistry test kit	9:55 am 11:35 am	20JTU	40JTU	
Chlorophyll	11:30 AM	0.5		
Chemical				
DO (drop kits)	8:30 am 8:51 am	4 ppm 42% saturation	4 ppm 42% saturation	
pH	8:30 am 9:35 am	8	7	
Salinity - meter	8:48 am 8:30 am	Readings ranged from 6 to 10 ppt collected from 9:30 to 11 a.m.	7	
Fish Catch- 12:00 PM to 1:25 PM	Number Caught 30 2 4 1 1	Species Atlantic Silverside Striped Bass Blue Crabs White Perch Oyster	Average Length 3 inches 3 inches 2 inches 2 inches 4 inches	Seine
*Lots of water celery in nets				
Tides R= right tide stick L = Left tide stick	TIME (am) 8:29 R 9:25 R 9:33 L 9:33 R 9:51 L 9:51 R 10:04 R 10:04 L 10:15 L 10:15 R	Water height (cm) 12.5 30.5 (boat wave) 16 24 24 33 39 31 34.5 44	Rise/Fall RISE	
Currents	Time 10:30 am 11:45 am 9:08 am	Cm/60 sec 11.6 22.5	Cm/sec 1.9 .375	Direction First flowing north Second flowing south
Core – 8 cm long	TIME 9:45 am	Rare Coal	Common Pebbles and mud	Abundant Sand and gravel

Traffic	9:30 am	Boat passed, <i>Columbian Sky</i>		
Other Items	Students' Hypotheses: For water chemistry majority of the students found results to be close to their predictions.			