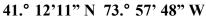
Day in the Life of the Hudson River 10/10/13 Data (Salt Front RM 69.3)

RIVER MILE 35W – Bowline Park, Haverstraw Waterfront Chuck Barone, Nanuet High School – 12^{th} grade – 12 students, 2 adults





Relaxing after a morning of hard work doing field science!

Location: Bowline Park, Haverstraw waterfront, Rockland County NY

Area: Parking lot, recreation, fishing

Surrounding Land Use: 15% beach, 20% Industrial/commercial, 60% recreational, 5%

forested

Sampling Site: shoreline is sandy, muddy, rocky, small beach, bank altered, large rip rap, bulkhead, industrial tress spans the water to the north and east, bricks in the sand **Other Notes:** The beach has a distinctive marker showing the high tide line or more commonly referred to as the 'rack line' where natural and man made debris line up

Plants in area: none

Water depth:

River Bottom – muddy

ITEM	Time	Reading 1	Reading 2	Comments	
Physical					
Air Temperature	9:32 am	54°F	10:00 AM	54°F	
		12.2°C		12.2°C	
Wind Speed			Ripples no	Light air	
	9:30 AM	1-3 kt	foam	Wave height	
	Beaufort #2	1-3 mph	NE	15 cm	
		7-10 kts		Gentle breeze	
	12:00 PM	8-12 mph	White caps	Wave height	
	Beaufort #3		NW	60-90 cm	
Cloud Cover	cloudy				
Weather today	Overcast	Cold	Light		
			rain/drizzle ~		
			10:00 AM		
Weather last 3	Clear and	Observation: Warmer weather the last few days			
days	sunny	may have kept the water warmer with more DO			
Water	See wave				
	height above				

Water Temp.		21°C	68°F	Average
1		21.0	70	69.3°F
	9:32 AM	21.0	70	21°C
				Average 70°F
	11:00 AM	20.5°C X 3	70°F X3	20.5°C
Turbidity – Long	9:32 AM	41 cm	12:00 PM	48.2 cm
site tube				
Chlorophyll	9:32 AM	0.3		
Chemical				
DO				
Drop count	9:32 AM	21 C	8.2 PPM	90 % sat
	11:00 AM	20.5 C	10 PPM	110 % sat
pH litmus paper	9:32 AM	8	12:00 PM	7
Salinity:	*NOTE – net	ither set of		
	salinity meas	urements		
	makes sense			
Hydrometer	9:37 AM			6 ppt*
	12:00 PM			1.00 ppt*
Test strips	9:37 AM	0		0*
	12:00 PM	.006 %	39 ppm Cl-	70 ppm TS*
Fish Catch	Time	Number Caught	Species	Length of largest
Seine 50 ft. X 6ft.	9:30 AM	NO FISH		
Mesh 0.25 inch	four seines	CAUGHT!!!		
Tides	9:32AM	150 cm		
			rising	350cm/79 min
	10:53 AM	500 cm		4.43 cm/min
Currents* main	CM/60 secs	Cm/Sec	North/South	Knots
channel would be			Ebb/Flood/Still	
flooding but this				
area is set back				
and may still be				
ebbing	430cm/60			
9:32 AM	sec	7.17 cm/sec	South/ebb	
10:53 AM		10 cm/sec	South/ebb	
Core –	Length	Rare	Common	Abundant
Shipping	- 8			33 3 33 33 33 33 33 33 33 33 33 33 33 3
Observations		L	1	1
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