Day in the Life of the Hudson & Harbor 10/22/19 Data 125th STREET PIER, Manhattan, NY RIVER MILE: 10

Salt Front: ~ RM 53

Diane Lennon, Columbia Secondary School, Environmental Science 22 students 12th grade, 2 adults Latitude 40 N & Longitude - 73 W

Location: Pier on 125th Street, Manhattan

Area: Concrete pier; used for boating and fishing; at the pier there are birds that are feeding on food scraps or other small organisms around the vicinity. Rocky shoreline, riprap edges and concrete

Surrounding Land Use: 100% Urban/Residential

Sampling Site: Pier

Plants in area: No plants in the water area

ITEM	Time	Reading	Reading			
Physical						
Air Temperature	1:32 PM	13.6 ° C	62.6° F			
	1:34 PM	13.8 ° C	62.24 ° F			
	1:46 PM	15.7 ° C	60.98 ° F			
Wind Speed:	1:30 PM	5 mph (meter)	North			
anemometer						
Weather today	1:38 PM, light rain, misty and drizzly - mostly cloudy (51-75%) –					
	It is very cloudy and foggy & chilly					
Weather recently	Rain 2 days ago a	nd cloudy				
Water Temperature –	1:38 PM	17 ° C	62.6 ° F			
	1:48 PM	16.8 ° C	60.8 ° F			
	2:00 PM	16.1 ° C	60.8 ° F			
Turbidity -	2:00 PM	Secchi Disk – 152 cm	*With the secchi			
Secchi disc &			di			
short sight tube		Short site tube - 1.5 JT	very green and			
				cloudy, with the		
		*Although they noted cloudy water the		short site tube the		
		numbers show pretty good visibility		water was yellow		
				& partly cloudy		
Chemical			1			
Salinity- Hydrometer	1:50 PM	12 ppt		Average – 13 ppt		
	1:53 PM	14 ppt				
	1:54 PM	12 ppt				
DO –	Time	Temp	ppm DO	% saturation		
	1:10 PM	17 ° C	8	69%		
	1:33 PM	17 ° C	9.3	89%		
pH – Color match	1:40 PM	3.5 X 3		AVG: 3.5*		
kit* very acidic -	1:45 PM	6.5, 6.5, 6.3		6.4		
wonder if there was	1:50 PM	7 X 3	7.0			
something in the						
water collected?				Overall average		
77.	1 11 70 1	0.37.2		5.6		
Nitrates	1:44 PM	0 X 3	T G //G	F11 /F1 1/2 1/2		
Current-	Distance	cm/second	Cm/Sec	Ebb/Flood/Still		
~1:45 PM	384 cm	32 seconds	12	Flood		
D / 75 CC	396 cm	11 6 seconds	36	Flood		
Boat Traffic –	Name	Color	North or	Loaded or Light		
Commercial	D		South	r 1 1		
1:25 PM	Barge	Grey	North	Loaded		
1:30 PM	Barge	Black	South	Loaded		

1:36 PM	Tug	White	South	Loaded
Recreational				
1:29 PM	Speedboat	White/gray	North	
1:50 PM	Yacht	White	North	

Journal #1: I can hear the flags on a nearby ship ruffling. There is a highway nearby so I hear cars and a train. In terms of weather it is a little misty/foggy. It rained earlier so it is a little wet out and I can feel some water, it could be from the river or drizzle. I think the wind may affect the direction of the water, or how the orange will move when we are trying to figure out direction.

Journal #2: The weather is windy, it's cold. I hear cars, as well as the train and my peers chatting. I see a large body of water as well as the Jersey shore.

I saw a bucket hitting the wall, That startled me, as well as fog that covers the Jersey buildings.

The wind that could redirect the current and has an effect on the current.