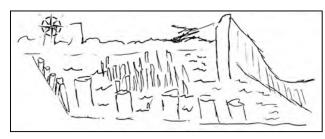
Day in the Life of the Hudson River 10/22/19 PIER 1 LIGHTHOUSE MUSEUM, STATEN ISLAND RIVER MILE: -4.5

Salt Front: ~ RM 53 Curtis High School- Edita O'Brien 30 students 11th-12th grade, 2 adults Latitude 40.640951 N & Longitude – 74.07346 W



Location: Pier 1 Lighthouse Museum, Staten Island, NY Area: Pier with parking lot Surrounding Land Use: 50% Industrial/Commercial, 50% Industrial/Commercial Sampling Site: Wood bulkhead, concrete bulkhead, banks altered, riprap Shoreline: 20% sandy, 30% muddy, 50% rocky Water: 250 cm, choppy, green and murky River Bottom: Rocky

Plants in water: no plants in water area



ITEM	Time	Reading		Comments	
		Physical		•	
Air Temperature	10:29 AM	59 ° F	15 ° C		
	11:11 AM	58 ° F	14 ° C		
	12:14 PM	58 ° F	14 ° C		
Wind Speed:	12:15 PM	Beaufort 3	8.4 mph	Northeast	
Weather today	Overcast (100%), Low temperatures, strong winds				
Weather the past 3	Rained on Sunday				
days: Tides-	Time	Rising, Falling, Unchanged	Height (cm)	Rate of Tidal Change (cm/min)	
LT ~9:28 AM	10:23 AM	NA	355 cm		
HT ~3:03 PM	11:05 AM	Unchanged	355 cm		
	12:09 PM	Rising	370 cm		
Current-	Time	cm/second	North/South	Ebb/Flood/Still	
	10:23 AM	2.6	North	Still	
	12:12 PM	5.6	North	Flood	
Water Temperature	10:32 AM	18 ° C			
	10:33 AM	17 ° C, 18 ° C, 18 ° C			
	10:58 AM	17 ° C, 16.5 ° C			
	11:05 AM	16 ° C			
	12:07 PM	19 ° C			
Turbidity- Secchi Disk	10:35 AM	166cm, 152 cm, 162 cm		Greenish water	
	12:21 PM	162 cm			
	NR	66 cm, 52 cm			
		Chemical			
Salinity- Hydrometer	10:27 AM	17,000 ppm, 18,000 ppm, 17,000 ppm		Averages: 17,333 ppm	
	10:33 AM	20,000ppm, 19,000ppm, 18,000 ppm		19,000 ppm	
	11:01 AM	18,000 ppm, 17,000 ppr	17,333 ppm		

	11:02 AM	18,000 ppm, 15,000 ppm, 16,000 ppm 16,333 ppm		
	11:04 AM	20,000ppm, 18,000 ppm, 18,000 ppm		18,666 ppm
DO – drop count kit	Time	<i>Temp</i>	<i>ppm DO</i>	% saturation
	11:02 AM	18 ° C	10.6	115
	11:21 AM	18 ° C	12.5	120
	NR	16 ° C	10	120
pH – pH pen	10:37 AM	7.8, 8.9, 9.0, 8.6	10	100
	11:07 AM	8.8, 8.8, 8.8		
	11:10 AM	8.9, 8.8, 8.8		
	11:11 AM	8.8, 8.8, 8.8		
Nitrates- test strips	10:40 AM	0 ppm		
There are so so ups	11:14 AM	0 ppm		
	11.147.001	Biological		
Fish- Fish Traps	Number	Name	Length of longest	
11:13 AM	1	Lined Seahorse	10 cm	*Identified 5 as
11.15 / 111	1	Mummichog	4 cm	tadpoles and
	8	Skillet fish	5 cm	*8 as suckers. Used
	5	Young of year fish*	3 cm	image to ID skilletfish
Fish Totals	TOTAL: 10	Diversity: 3		iniuge to in sumethism
Macroinvertebrates	Number	Name	Length of longest	
	1	Asian shore Crab		
	1	Mud snail		
	1	Ribbed Mussels	4 cm	
Macroinvertebrate Totals	TOTAL: 3	Diversity: 3		
Sediment Core	Time	Oxid Top	Grain Size	Other Features
	NR	NR	Abundant: pebbles,	Abundant:
			gravel	macroinvertebrates
			Rare: sand	Common: freshwater
				mussels
				Rare: oyster shells,
				brick
Boats	Time	Name/Color	North/South	Loaded/Light
Commercial	10:18 AM	SI Ferry, Orange	-	-
Recreational	11:05 AM	SI Ferry, Orange	North	Light
Commonial	1		South	Loaded
Commercial	11:06 AM	Cargo Doat, Diack	boum	Louded
Commercial	11:06 AM 11:07 AM	Cargo boat, black Cargo boat	South	Loaded
	11:07 AM		South	Loaded
Commercial	11:07 AM Some bricks i	Cargo boat	South , trash and litter in the	Loaded water, birds and seagulls