Day in the Life of the Hudson River 10/22/19 Data PIER I, 59TH STREET, MANHATTAN RIVER MILE: 6.8 Salt Front: ~RM 53 Speyer Legacy School, Kimberly Schwab 58 students 38 first graders and 20 seventh graders, 10 adults GLOBE- City College of New York Latitude 40.778578 N & Longitude - 73.990636 W



Location: Pier I, 59th Street, Manhattan, NY Area: Restored former railroad pier and parking lot Surrounding Land Use: 90% Urban/Residential, 10% Beach Sampling Site: Sampling took place on Pier I Shoreline: 10% muddy, 90% rocky. Tiny beach area, shore with concrete bulkhead, riprap, covered with vegetation, old railroad pilings, brick pieces Water: ~ 160 cm Plants in area: no plants just leaves River Bottom: Rocky

ITEM	Time	Reading		Wind		Weather					
Physical											
Air Temperature	10:00 AM	°C	°F	5 mph		Overcast, misting					
	10:30 AM 15.3 59.6 0.6-3 mph		nph	Overcast, mildly heavy rain							
	11:00 AM	12.8	55	2.0		Overcast no rain					
	11:30 AM	14.4	58	2.0		Overcast no rain					
	12:00 PM	14.4	58	0.6		Overcast, misting					
	12:30 PM	14.4	58	0.6		Overcast, misting					
	1:00 PM & 1:30 PM	15.6	60	2.5		Overcast, no rain					
	2:00 PM	15.6 60 2.0			Overcast, no rain						
Water Temperature	Time	°C	°F	°C	°F	Note: Water depth noted at 160.02 cm					
	10:00 AM	15		15		*Kimberly noted these					
	10:30 AM	20		35*		readings were taken with a broken					
	11:00 AM	37*		15		thermometer.					

	11:30 AM	37*	16	Appears depth is	
	12:00 PM	40*	16	shallow enough not to	
	12:30 PM	40*	16	impact temperature on	
		-		this overcast day.	
	1:00 PM	17	17		
	1:30 PM	17	17		
Turbidity -	Time	Тор	Bottom	AVERAGES	
* sheet noted short site	10:42 AM	39 cm	31 cm	Top = 40.3 cm	
tube as well as turbidimeter	11:12 AM	41 cm	38 cm	Bottom = 26.5 cm	
	11:50 AM	44 cm	18 cm		
	12:25 PM	38 cm	12 cm		
	1:00 PM	35 cm	28 cm		
	1:39 PM	45 cm	32 cm		
Chemical	I				
Salinity- glass hydrometer	Time	Тор	Bottom		
	10:00 AM	10 ppt			
	10:30 AM		12 ppt		
	11:00 AM	8 ppm			
	11:30 AM	11 ppm			
	12:00 PM		17 ppt		
	12:30 PM	13 ppt			
	1:00 PM	17 ppt			
	1:30 PM		13 ppt		
DO – Hach drop count kit	Time	Top/Bottom	ppm DO	Comments	
iiit	10:00 AM	Тор	10 ppm	% saturation not yet	
	10:30 AM	Bottom	9 ppm	calculated since the temperature was faulty	
	11:00 AM	Тор	9 ppm		
	11:30 PM	Bottom	5 ppm	Need to sort through	
	12:00 PM	Тор	5 ppm	for accurate results.	
	12:30 PM	Bottom	6 ppm		
	1:00 PM	Тор	2 ppm		
	1:30 PM	Bottom	4 ppm	7	
<i>pH</i> -	Time	Тор	Bottom	Average	
	10:16 AM	7	7	7	
	11:37 AM	6.5	8	7.25	
	12:12 PM	8.5 8.5		8.5	
	12:48 PM	8	7.5	7.75	
	1:16 PM	8	7	7.5	
	1:39 PM	8	8	8	

TIDES	Time	Rise/Fall/Slack	Height	Change per min	
	9:54	Set	160.02		
	10:24	Rising	167.64	0.254 cm	
	10:54	Rising	175.26	0.254 cm 0.593cm 0.593 cm 0.169 cm 0.593 cm 0.339 cm	
	11:24	Rising	193.04		
	11:54	Rising	210.82		
	12:24	Rising	215.90		
	12:54	Rising	233.68		
	1:24	Rising	243.84		
	1:54	Rising 251.46		0.254 cm	
Current	Time	Cm/sec South or North		Ebb/Flood	
	10:10 AM	90	South South Ebb		
	10:40 AM	50	South	Ebb	
	11:10 AM	48	South	Ebb	
	11:43 AM	42	South	Ebb	
	12:05 PM	29	South	Ebb	
	12:40 PM	1	North	Flood	
	1:10 PM	24	North	Flood	
	1:38 PM	32	North	Flood	
	2:01 PM	42	North	Flood	
Fish & Macro Data	Time	Species	Sex	Trap	Place
	9:20 AM	Oyster	N/A	Hand	7
	10:56 AM	Oyster Toadfish	Male	Rod	6
	1:05 PM	Comb Jellyfish	N/A	Crab	2
	1:35 PM	Blue Crab	Male	Crab	2
	Throughout	Periwinkles	N/A	Trap	1
	Day		1.012	Timp	-
	Throughout	Sea Squirt	N/A	Pole	6
	Day	····· 1···			-
Boats	Time	Name	Color	N/S	Heavy/Light
	10:04 AM	NY Waterway	Blue	S	L
	10:12 AM		Red	N	L
	10:15 AM	Speedway	Blue	S	L
	10:16 AM		Blue	N	Н
	10:21 AM		Dark Blue	N	Н
	10:48 AM	Manhattan	Brown	S	L
	11:03 AM		White	N	Н
	11:04 AM	ML	White Black	N	L
	11:06 AM	Coast	Black, Red,	S	Н
			White		
	11:07 AM	NVAA	White	S	L
	11:55 AM	NYC	White	N	L
	11:56 AM		White	N	Н
	12:12 PM	Circle Line	Green	S	L
	12:22 PM		White, Black	S	H
	12:52 PM		Blue	N	L
	1:20 PM	NYPD	Gray, Blue	N	H
	1:27 PM	Fenn	White	N	
	1:52 PM	1 01111	Black	N	
Other Observations		free! Saw Pigeons and		11	1