Day in the Life of the Hudson River 10/22/19 PIER 62 CHELSEA, MANHATTAN RIVER MILE: 4.4

Salt Front: ~ RM 53

PS 340 – Taylor Biedermann 58 students 3rd grade, 15 adults

Latitude 40.748829 N & Longitude – 74.0112 W

Location: Hudson River Park, Pier 62, Chelsea, Manhattan, NY

Area: Pier off of W 22nd street

Surrounding Land Use: 100% Hudson River Park with walkway and small grassy area. 100%

Commercial/Urban

Sampling Site: Recreational Pier, near a skate park and The Field House at Chelsea piers.

Shoreline: Banks altered with bulkhead, mainly metal pier

River Bottom: Muddy

ITEM	Time	Reading		Comments			
Physical							
Air Temperature	NA						
Wind Speed:		Avg. Wind Speed	High Wind Speed				
anemometer	10:20 AM	1.7 m/s	1.4 m/s				
	10:40 AM	.7 m/s	1.4 m/s				
	10:46 AM	1.6 m/s	2.8 m/s				
	10:52 AM	.9 m/s	1.9 m/s				
	11:00 AM	1.2 m/s	2.2 m/s				
	11:10 AM	.3 m/s	1.1 m/s				
	11:18 AM	.5 m/s	1.2 m/s				
	11:27 AM	.5 m/s	1.2 m/s				
Weather today	NR		-				
Weather the past 3	Sunday 10/20 Rain (sometimes heavy), Monday 10/21 Sunny, Tuesday 10/22 Humid, light						
days:	rain, cloudy, fog						
Tides- dock to water	Time	Rising, Falling,	Height (in)	Rate of Tidal			
		Unchanged		Change			
				(cm/min)			
*Tides are a bit confusing	10:30 AM	NA	150				
with the 201 in being the	10:38 AM	Falling	201 *changed rope	*perhaps a			
outlier?	10:46 AM	Rising	167	misread?			
	10:54 AM	Falling	170				
	11:02 AM	Falling	182				
Current- orange toss	Time	cm/second	North/South	Ebb/Flood/Still			
*Interesting phenomena	10:20 AM	80	South	Ebb			
that Pier 62, Pier I, and	10:22 AM	37	South	Ebb			
Pier 45 were all ebbing	10:31 AM	41	South	Ebb			
during this time period	10:34 AM	42	South	Ebb			
when LT ~9:30 AM	10:40 AM	26	South	Ebb			
	10:42 AM	27	South	Ebb			
	10:47 AM	37	South	Ebb			
	10:55 AM	58	South	Ebb			
	10:57 AM	39	South	Ebb			
	11:02 AM	24	South	Ebb			
	11:04 AM	47	South	Ebb			
	10:10 AM	56	South	Ebb			
	11:12 AM	44	South	Ebb			
	11:17 AM	44	South	Ebb			
	11:18 AM	73	South	Ebb			

Water Temperature-	10:22 AM	64 ° F	18 ° C	
•	10:26 AM	61 ° F	18 ° C	
Turbidity- long sight	10:15 AM	75 cm	<u>.</u>	
tube	10:20 AM	50 cm		
	10:40 AM	58 cm		
	10:43 AM	55 cm		
	10:51 Am	55 cm		
	11:02 Am	52 cm		
	11:12 AM	42 cm		
	11:29 AM	45 cm		
		Chemical		
Salinity- Hydrometer	10:30 AM	18,000ppm, 16,000 ppm, 17,000 ppm		<i>Avg</i> − 17,000
	10:40 AM	18,000 ppm, 20,000 ppn	18,666 ppm	
	10:46 AM	16,000 ppm, 16,000 ppn	16,333 ppm	
	10:52 AM	16,000 ppm, 14,000 ppn	15,333 ppm	
	11:00 AM	14,000 ppm, 16,000 ppm, 17,000 ppm		15,666 ppm
	11:10 AM	15,000 ppm, 17,000 ppn	16,333 ppm	
	10:18 AM	15,000 ppm, 18,000 ppm 15,000 ppm		16,000 ppm
	11:27 AM	18,000 ppm, 17,000 ppm, 17,000 ppm		17,333 ppm
DO -	Time	Тетр	ppm DO	% saturation
	NR			
pH –	NR			
		Biological		
Fish	Number	Name	Length of longest	
Unable to fish				
Fish Totals	TOTAL:	Diversity:		
Macroinvertebrates	Number	Name	Length of longest	
NA				
Macroinvertebrate	TOTAL:	Diversity:		
Totals	,			
Sediment Core	Time	Oxidized Top	Grain Size	Other Features
Unable to core	NA			
Boats	Time	Name/Color	North/South	Loaded/Light
	NA			
Observations		1		L