Day in the Life of the Hudson River 10/22/19 INWOOD HILL PARK, MANHATTAN RIVER MILE: (Hudson River) 12.75

Salt Front: ~ RM 53

Comprehensive Model School Project- Carolina Castro New York City Park Ranger- Dan Tainow 35 students 10th grade, 4 adults Latitude 40.87308 N & Longitude – 73.92105 W

Location: Inwood Park, sampling on the Hudson River side of the park, Manhattan, NY

Area: Hudson River waterfront, a pier and a park **Surrounding Land Use:** 10% Forested; 40% Park

Sampling Site: beach area and a pier

Shoreline: beach Water: calm

ITEM	Time	Reading		Comments		
Physical						
Air Temperature	11:02 AM	16 ° C				
Wind Speed:	NR					
Weather today	10:30 AM Ov	-				
Weather the past 3 days:	Cool, dry, a little rain					
Tides- used a tide stick	Time	Rising, Falling, Unchanged	Height (cm)	Rate of Tidal Change (cm/min)		
LT was at 10:38 AM so	10:40 AM*		75	NA		
stick set was just at the	11:06 AM	Rising	85	0.385		
tidal switch.	11:22 AM	Rising	89	0.25		
	11:45 AM	Rising	95	0.261		
	12:05 PM	Ebb	91	0.2		
Current-	cm/second	North/South	Ebb/Flood/Still	Comments		
10:20 AM	3.3		Transition time	*LT was at 10:38		
10:53 AM	6.6		Flood	AM. Recorded as		
11:20 AM	5.2		Flood	ebbing all day but should be flooding		
Water Temperature	11:30 AM 11:41 AM	16 ° C, 15 ° C 15 ° C, 15 ° C	60.8 ° F, 59 ° F 59 ° F, 59 ° F	Avg. 15.25 ° C 59.5 ° F		
Turbidity - long sight tube	11:00AM	64 cm, 47 cm, 37 cm		Water is very cloudy; yellow and green		
Chemical						
Salinity- Hydrometer	Time	Chloride ppm Cl	Total Sal. ppm			
	11:00 AM		8000 ppm			
	11:03 AM		7500 ppm			
	11:12 AM		11000 ppm			
DO – drop count kit	Time	Тетр	ppm DO	% saturation		
*Way too high. Caroline	10:56 AM	15 ° C	22 ppm	140%+		
noted reagents were old	11:30 AM	13 ° C	20 ppm	140%+		
and needed replacing.						
pH – color match test	11:43 AM	8.4, 7.2, 8.4	1 -			
Fish	Number	Name	Length of longest			
Seine: 10 m	28	Atlantic Silverside	10 cm			
Fish Totals	TOTAL: 28	Diversity: 1				
Macroinvertebrates	Number	Name	Length of longest			

	2	Comb Jelly		
Macroinvertebrate Totals	TOAL: 2	Diversity: 1		
Sediment Core	Time	Oxid Top	Grain Size	Other Features
Length: 5 cm		No	Common: mud,	H ₂ S smell
			sand, gravel,	Some glass in the
			pebbles	core
Boats	Time	Name/Color	North/South	Loaded/Unloaded
Recreational	12:20 PM	Jet ski, White		
Recreational	11:30 AM	Sail boat, White		
Observations	NR	•		<u> </u>