Day in the Life of the Hudson River 10/14/21 MACHEACHRON WATERFRONT PARK- KINALLY COVE, HASTINGS RIVER MILE: 22

Salt Front: ~ *RM 49*

Hastings High School- Melissa Shandroff and 3 teachers 72 students, 11-12th grade science Latitude 40.99776 N & Longitude – 73.88523 W

Location: MachEachron Waterfront Park, Kinnally Cove, Hastings-on-Hudson, Westchester County, NY **Area**: Beach area with riprap shoreline, next to the park= used both spaces. Beach is totally covered during high tide

Surrounding Land Use: 50% Industrial/Commercial (next to old Anaconda site) but mainly parking lot now;

25% Beach; 15% Forested; 10% Grassy

Sampling Site: Beach, banks altered, riprap on shoreline, bulkhead

Shoreline:

River Bottom: Sandy, rocky

River Bottom: Sandy, roc		I						
ITEM	Time	Reading			Comments			
			Physical					
Air Temperature	9:30 AM	19 ° C 24.5 ° C		66.2 ° F				
	1:30 PM			76.1 ° F				
Wind Speed:	9:30 AM	3.5 knots 5 knots		4.03 mph				
	1:30 PM			5.75 mph				
Weather today	All day – part	All day – partly cloudy						
Weather the past 3								
days:								
Tides-	Time	Rising, Falling, Unchanged		Height (cm)				
Current-	Time	Cm/sec	Knots	North/South	Ebb/Flood/Still			
	9:30 AM	44.24	0.86	South	Ebb			
	1:30 PM	25.72	0.5	North	Flood			
Water Temperature-	9:30 AM	19 ° C	0.5	66.2 ° F	11000			
muci icmperature	1:30 PM	20 ° C		68° F				
Turbidity- Long sight	9:30 AM	9.8 cm			turhid hut savaral sitas			
tube	1:30 PM	7.7 cm		*This is extremely turbid but several sites in this part of the river were highly turbid				
inoc	1.501141		Chemical	in this part of the r	iver were nightly turbiu			
Salinity-		Hydrometer		Refractometer	Quantabs			
Summy	9:30 AM	6 ppt		5 ppt	6.6 ppt			
	1:30 PM	7.5 ppt		7 ppt	6.5 ppt			
<i>DO</i> –	Time	Temp		ppm DO	% saturation			
<i>D O</i>	9:30 AM	19 ° C		7 ppm	70%			
	1:30 PM	20 ° C		8 ppm	88%			
pH – LaMotte Kit	9:30 AM	7		о ррш	0070			
ры – Биноне Ки	1:30 PM	7						
Nitrates- LaMotte Kit	9:30 AM	1.5 ppm						
Tittutes- Lumotte Kit	1:30 PM	4.5 ppm			*high reading			
Phosphates- LaMotte	9:30 AM	1.0 ppm			nigh reading			
Kit	1:30 PM	1.0 ppm						
nu	1.50 1 141		iological					
Fish	Number	Name		Length of longest	Length of smallest			
10		Banded Killifish		6 cm	5 cm			
	30	Atlantic Silverside		9 cm	4.5 cm			
	3	White Per		16 cm	6.5 cm			
	1	Striped Ba		21 cm	-			

	1	Northern Kingfish	16 cm	-
Fish Totals	TOTAL: 45	Diversity: 5		