Day in the Life of the Hudson River 10/05/2023 Concrete Plant Park, Bronx, NY BRONX RIVER MILE: 4.5

Salt Front: ~ *RM 52*

Pelham Prep Academy-Zachary Itzkowitz
DEC Region 2: Urban Park Rangers
27 students, 11th-12th grade, 2 adults
Latitude 40.826677°N & Longitude -73.884901°W





Location: Bronx River, Concrete Plant Park, Bronx, NY

Surrounding Land Use: 50% Forested

Sampling Site: Pier, Grassy, Covered in Vegetation, RipRap, Marshy

Shoreline: 50% Muddy & 50% Rocky **Water:** Calm, approximate 60 cm deep

River Bottom: Muddy, Sandy, Weedy & Rocky **Plants in the water**: No Plants in the water

*NR = Not read/recorded

ITEM	Time	Reading			Comments			
Physical								
Air Temperature	11:19 AM	22.2°C		72°F				
	11:20 AM	22.7°C		72.9°F				
	11:35 AM	22.2°C 22.8°C		72°F				
	11:52 AM			73°F				
Wind Speed:		Anemometer		Beaufort	Direction			
	11:10 AM	2 mph		1	North			
Weather today	10:33 AM	<25% Cloud Cover		No Rain				
Weather the past 3	Hot for October/higher than average, sunny/clear							
days:		C		•				
Tides- Tide Stick	Time	Rising, Falling, Unchanged		Height (cm)				
	10:42 AM			27 cm	LT @ 11:13 AM			
	11:18 AM Slack			27.5 cm				
	11:03 AM	:03 AM Rising		71 cm				
	11:50 AM Rising		76 cm					
Current-	Time	Cm/sec	Knots	North/South	Ebb/Flood/Slack			
	11:04 AM	42	0.82		Ebb			
	11:32 AM	16.5	0.32		Ebb			
	11:55 AM	0.4	0.008		Flood			
Water Temperature-	11:19 AM	20.9°C		69.6°F				
-	12:05 PM	22.8°C		73°F				
Turbidity- Long Sight	11:00 AM	35 cm						
	I							

Tube (120 cm)	12:11 PM	PM 52 cm							
Chemical									
Standardized Salinity- High Range Quantabs		00 AM	2419 ppm Cl- 4,370 ppm Total Salinity		4.37 ppt	7 quantab reading			
Student Salinity- Hydrometer		04 AM	10,000 ppm			10 ppt			
Refractometer		27 AM 02 PM	3,000 ppm 2,500 ppm			3 ppt 2.5 ppt			
DO –Lamotte Drop Count Kit		те	Тетр			ppm DO	% saturation		
		05 AM				8 ppm	88%		
pH – Color Match Test Kit		36 AM 11 PM	8 7.9						
Biological									
Fish- Seine (3 Hauls)		mber	Name			Length of longest	Notes		
11:00 AM-12:0	00 PM	27	Banded Killifish		6 cm				
Fish Totals		TAL: 27	Diversity: 1						
Macroinvertebrates Number		mber	Name			Length of longest			
Macroinvertebrate Totals		OTAL: 0	Diversity: 0						
Sediment Core	Tii	ne	Oxid Top	H ₂ S Smell	Oil	Grain Size	Other Features		
	30 cm 10	53 AM	No	No	Yes	Abundant: Mud Common: Sand Rare: Clay & Gravel	Rare: Living Vegetation		

Boats-NR							
Commercial/ Recreational	Time	Name	Color	Southbound/ Northbound	Light/ Loaded		