

Day in the Life of the Hudson River 10/13/22
Concrete Plant Park, Bronx
Bronx RIVER MILE: 4.5
Salt Front on the Hudson River: ~ RM76
Bronx Center for Science and Mathematics– Patrick Callahan
20 students & 2 adults
Latitude 40.826677°N & Longitude – 73.884901°W



Location: Concrete Plant Park, Bronx River, NY
Area: Across from the 6 train at whitlock.
Sampling Site: RipRap (large rocks)
Surrounding Land Uses: 25% Urban/Residential; 75% Industrial/Commerical
Shoreline: 50% Rocky, 50% Sandy
River Bottom: muddy, rocky
Water: Calm
Plants in the Water: No plants in the water
 *NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>- Air Temperature</i>	9:37 AM	19.4°C	67°F	
	9:39 AM	19	66	
<i>Wind Speed:</i>	9:38 AM	<i>Anemometer</i> NR	<i>Beaufort</i> 4	<i>Direction</i> NR
<i>Weather today</i>	9:40 AM	>75% cloud cover	No Rain	
<i>Weather the past 3 days:</i>	Warm, no rain			
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Water Height (cm)</i>
	9:33 AM	Rising		244 cm
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>
	NR	NR	NR	Flood
<i>Water Temperature-</i>	12:10 PM	19°C (18/19/19)		66.2°F (64.4/66.2X2) 63°F (62.6X2/64.4) 63.5°F 62.6°F (60.8/62.6/63.5)
	12:12 PM	17.33°C (17/17/18)		
	12:17 PM	17°C (16/17/17.5)		
<i>Turbidity- Long Sight Tube (120 cm)</i>	9:55 AM	42.4/50/52		Average of 9 readings = 43 cm
	10 AM	40.2/27/64		
	10:09 AM	34/21/57 cm		Water is brownish and murky
<i>Chemical</i>				

Salinity-Refractometer	12:15 PM	20/20/18 20/22/18 20/21/19	Average of 9 readings	20 ppt 20,000 ppm	
Standardized Salinity – Refractometer	NR	10,000 ppm			
DO – Lamotte Drop Count Kit	<i>Time</i> 10:44 AM 10:46 AM 10:48 AM	<i>Temp</i> NR NR NR	<i>ppm DO</i> 6 ppm 7 ppm 6.6 ppm	<i>% saturation</i> NR NR NR	
pH – Color Match Kit	12:21 PM	8.5 X 6 readings 7 X 3 readings		Average 8	
Nitrates- NR					
Phosphates- NR					
Alkalinity- NR					
Biological-					
Fish – Seine	Number	Name	Length of longest	Length of smallest	
11:20 AM (3 seines)	2 20	Mummichog Atlantic Silverside	10 cm 7 cm	8 cm 5 cm	
Fish Totals	TOTAL: 22	Diversity: 2			
Macroinvertebrates	Number	Name	Length of longest	Length of smallest	
Macroinvertebrate Totals	TOTAL: 0	Diversity:0			
Sediment Core - N/A					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
Boats-					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial	9:30 AM	The Barge	Green, Black	Southbound	Loaded
	9:30 AM	Scrap metal Barge	Black	NR	Light
	9:30 AM	Boat	White	Southbound	Light
Recreational					