

**Day in the Life of the Hudson River 10/14/21 Data**  
**CONCRETE PLANT PARK, BRONX**  
**RIVER MILE: 4.5 (Bronx River)**  
*Hudson River Salt Front: ~ RM 49*  
**Bronx River Alliance: Amelia Zaino and 2 other helpers**  
**Bronx Center for Science and Mathematics, Patrick Callahan & Ms. Dada, 20 students**  
**Latitude 40.826677 N & Longitude – 73.884901 W**

**Location:** Concrete Plant Park, Bronx River, NY, 8 mile long river, lots of plants, construction sites and former concrete plant.

**Area:** Grassy, covered in vegetation, riprap, pipe entering water, marshy

**Surrounding Land Use:** 90% Urban/Residential, 20% forested, highways with commercial trucks

**Shoreline:** 80% Muddy; 19% Rocky; 1% Sandy; Riprap

**River Bottom:** Muddy, rocky

**Plants in water:** None

**Water:** Calm

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<b>Physical</b>				
<i>Air Temperature:</i>	9:00 AM	26 °C	79 °F	
<i>Wind Speed:</i>	10:40 AM	5 mph	NE	
<i>Weather Today:</i>	9:00 AM clear <25% clouds			
<i>Weather Previous:</i>	Windy and sunny, no rain for 3 days			
<b>Tides</b>	HT for this area	4:49 AM	Sample time 10:49 AM	Tide was ebbing
<b>Currents</b>				
<b>Water Temperature</b>	11:07 AM 12:37 PM 12:45 PM 1:39 PM 1:41 PM 1:45 PM 1:55 PM	17°C 21.5 °C 22 °C 22 °C 21.5 °C 20.5 °C 21 °C	63°F 70.7 °F 71.6 °F 71.6 °F 70.5 °F 68.5 °F 69.5 °F	Averages of 3 readings each
<b>Turbidity - long sight tube</b>	12:37 PM 1:23 PM 1:33 PM 1:43 PM 1:48 PM 1:52 PM 1:54 PM	99.4, 95, 194.4 45, 48, 47.5 cm 44.75, 49, 43 23, 28 cm 28, 47 cm 48, 44.6, 49 cm 49, 49. 51 cm	25, 10, 17	99.6 cm 30 cm average 42.5 cm 25.5 cm 37.5 cm 47.2 cm 49.67 cm
<b>Chemical</b>				

<i>Salinity- Refractometer</i>	1:05 PM 1:21 PM 1:30PM 1:50 PM	9 readings 9 readings 9 readings 9 readings	12 ppt 12 ppt 12 ppt 12 ppt	Consistent readings all day
<i>DO – Lamotte Drop Count Kit</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	12:35 PM 12:55 PM 1:47 PM	17 °C 22 °C 22 °C	4 ppm 5.3 ppm 7.4 ppm	37% 55% 60%
<i>pH – Test Strips</i>	12:56 PM 1:20 PM 1:47 PM 1:54 PM	9 readings 9 readings 3 readings 4 readings	4.5 4 average 5.3 5	
<b><i>Biological</i></b>				
<b><i>Fish &amp; Macros – 9-10AM</i></b>	<b><i>Number</i></b>	<b><i>Name</i></b>	<b><i>Length of longest</i></b>	<b><i>Length of Shortest</i></b>
	2	Banded Killifish	5 cm	3 cm
	8	Atlantic Silversides	5-8 cm	5 cm
<b>FISH</b>	<b>TOTAL 10</b>	<b>DIV 2</b>		
	2	Blue Crab	8 cm	1 cm
<b>MACRO</b>	<b>TOTAL 2</b>	<b>DIV 1</b>		
<b><i>Sediment Cores</i></b>				
<i>Description</i>	Absent	Rare	Common	Abundant
	Clay, sand, coal	Gravel, shells, macroinvertebra tes, brick, slag	Wood, living vegetation	Mud, pebbles, leaves
<b><i>Other Observations</i></b>				
<i>Lots of Rocks and mud</i>	The water was pretty turbid of a darker color, brownish, however there was visibility being able to see large groups of fish at the surface from the distance.			