

**Snapshot Day 10/2/07 Data**  
**(Salt Front RM 78.2)**  
**RIVER MILE East River 1 East**  
**Tatiana Morin, New York Soil & Water Conservation District**  
**Kathleen Rucker, Brooklyn International High School, 11<sup>th</sup> grade – 90 students**

**Location:** South of the Manhattan Bridge

**Area:** Urban park surrounded by old warehouses, stores, apartments

**Surrounding Land Use:** 20% large rocks; 50% natural (plants and grass); 12-40% buildings; 10% sand & other (*note numbers provided add up to >100%*)

**Sampling Site:** Rocky shoreline (large black rocks), pier, small sandy beach

**Plants in area:** Low biodiversity, not many species of plants; 52% of land area is plants

**Water depth:**

**River Bottom** –rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<b>Physical</b>				
Air Temperature	9:30 AM	85° F	cloudy	<i>Seems too high for this time of day</i>
	11:00 AM	70° F	Partly sunny	
	2:30 PM	80° F	Light breeze condition	
Wind Speed				
Cloud Cover	intermittent			
Weather today	Clear and warm			
Weather last 3 days	Clear and warm			
<b>Water Temperature</b>	11:00 AM		21 ° C	
	1:30 PM		21 ° C	
	3:00 PM		24 ° C	
<b>Turbidity</b>				
<b>Chlorophyll</b>	9:30 AM	0.0		
	11:00 AM	0.1-0.3		
	1:30 PM	0.0		
	2:30 PM	0.1		
<b>Chemical</b>				
DO	9:30 AM	6 mg/L	18 ° C 65° F	65%
	10:50 AM	6 mg/L	21° C	60%

			70° F	
<i>Drop count</i>	1:30 PM	5 mg/L	21° C 70° F	60%
	3:00 PM	6.8 mg/L	24° C 74° F	80%
pH	10:00 AM	7.5		
<i>Indicator solution</i>	10:30 AM	7.3 7.8 7.8		Average 7.6
	1:30 PM			Average 7.5
	2:30 PM			Average 8.0
Nitrate	10:30 AM	1.0 ppm 1.0 ppm 1.0 ppm		<i>Same reading throughout the day</i>
Alkalinity				
Salinity	11:00 AM	27.4 ppt	1.020	<i>hydrometer</i>
	3:00 PM	28.5 ppt		<i>hdrometer</i>
<b><i>Fish Catch</i></b>	<b><i>Number Caught</i></b>	<b><i>Species</i></b>		
9:30 AM	None	No fish or macros caught		
11:00 AM	None			
1:30 PM	Japanese Crab noted but no number	Invasive species		
2:30 PM	2	Japanese crabs		
<b><i>Tides</i></b>	9:30 AM	Ebb tide	Tide returning to ocean	
	10:22 AM	100cm		
	10:42 AM	120 cm	rising	
	1:30 PM		high	
	2:30 PM		rising	
<b><i>Currents</i></b>	9:30 AM	southeast		
	11:00 AM	North up river		
	1:30 PM	Can flow north or south		
	2:30 PM	Going north		
<b><i>Other Items</i></b>	9:30 AM	8 boats/20 mins		

	11:00 AM	3 boats/5mins		
	1:30 PM	2 boats/30 mins		
	2:30 PM	5 boats		
<b><i>Core Description</i></b>	<b><i>9:30 AM</i></b>	<b><i>11:00 AM</i></b>	<b><i>1:30 PM</i></b>	<b><i>2:30 PM</i></b>
	Small rocks & sand; brown, yellow, orange rocks; no layers; small wire in it	Same	Small rocks & sand No layers	Orange soil, black soil, rocks