

**Snapshot Day 10/12/07 Data**  
**(Salt Front RM 78.2)**  
**RIVER MILE East River 1 West**  
**Tara LaPorte, Lower East Side Ecology Center**  
**Jaclyn Hoahing, University Neighborhood High School**  
**12<sup>th</sup> grade, 20 students**

**Location:** Beach under Brooklyn Bridge, 125 ft. North of Dover St., Manhattan side

**Area:** Pier, Used for picnics, Includes a Parking Lot,

**Surrounding Land Use:** Urban/Residential 100% ; Industrial/Commercial 25%; Beach 5%

**Sampling Site:** Shoreline sandy and rocky, banks altered, bulkhead with timbers, piping noted entering river (CSO sign)

**Plants in area:**

**Water depth:** 6 ft.

**River Bottom** –rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:27 AM	68°F		
	11:15 AM	70°F		
Wind Speed		3 mph (from internet)		
Cloud Cover				
Weather last 3 days				
<i>Water Temperature</i>	10:20 AM	70°F 21°C	70°F 21°C	70°F 21°C
	10:25 AM	68°F 20°C	68°F 20°C	68°F 20°C
	11:05 AM	70°F 21°C	70°F 21°C	70°F 21°C
	11:08 AM	68°F 20°C	71.6°F 20°C	Avg. 69.8°F 21°C
<i>Turbidity</i>	10:42 AM	11 ft.		
<i>Long site tube</i>	11:25 AM	10.5 ft.		
	11:25 AM	11 ft. 11.25 ft. 11.58 ft.		Avg. 11 ft.
<i>Chlorophyll</i>	11:20 AM	0.3	11:25 AM	0.1
<i>Chemical</i>				
DO - drop count	10:30 AM	21.4 °C	.02 ??	90%

kit				
	11:20 AM	21°C	6 ppm	60%
pH (paper)	10:15 AM	7 6 6		avg. 6.3
	11:00 AM	6 6 6		Avg. 6.0
Phosphate	10:55 AM	2 ppm		
	11:20 AM	1 ppm		
	11:34 AM	1.5 ppm		
Nitrite				
Nitrate (red sea test kit)	10:50 AM	.35 ppm		
Alkalinity				
Salinity (Hydrometer)	10:20 AM	24 ppt 24 ppt 21 ppt		Avg. 23 ppt
	10:25 AM	28 ppt 39 ppt 26 ppt		Avg. 31 ppt
	11:03 AM	26 ppt 32 ppt 27 ppt		Avg. 28.3 ppt
	11:10 AM	31 ppt 24 ppt 30 ppt		Avg. 28.3 ppt
<b><i>Fish Catch</i></b>	<b><i>Number Caught</i></b>	<b><i>Species</i></b>		
	1	Banded Killifish		
	2	Striped Bass		
	1	Blue Fish		
<b><i>Other organisms</i></b>				
<b><i>Tides</i></b>				
Measured water distance from wall	10:10 AM	384 inches	(reported as 32 ft.)	
	* 10:35 AM	260 inches	(reported as 21 ft., 8 inches)	* suspected error in measurement
	11:00 AM	292 inches		
	11:33 AM	206 inches		
<b><i>Currents</i></b>	10:15 AM	14 ft/30 secs.	8 ft. 7 inches/30 secs	<b><i>Compute rate per second for</i></b>

				<i>both of these</i>
<i>Other Items</i>	9:51 AM	Loaded barge	Express Marine Inc.	Southbound/full
<i>Water Description</i>				

- *If the rate of tidal fall is uniform students you could set up a calculation to determine what the projected measurement should be for the 10:35 AM time.*
- *Between 11:00 AM and 11:33 AM the tide fell a total of 86 inches. Determine rate per minute.*
- *Now calculate how much the tide fell over the entire sampling time (10:10 to 11:33). Determine rate per minute.*
- *Compare two rates – did the rate per minute change?*