

**Snapshot Day 10/14/10 Data**  
**(Salt Front RM 36)**  
**RIVER MILE 28**  
**Nyack Memorial Park**  
**Diana Cutt, U. S. EPA**  
**S. Brand, M. Maloney, E. Bobo, A. Sanabria, F. Pregiato**  
**Upper Nyack Elementary School, 100 students 3<sup>rd</sup> & 4<sup>th</sup> grade**  
**Latitude 40°05.243'N, Longitude 73°54.988 'W**

**Location:** Nyack Park where Nyack Brook feeds in

**Area:** Open and grassy, has a parking lot, grassy area, rip rap shorelines

**Surrounding Land Use:** 5% beach; 95% Rip-Rap shoreline

**Sampling Site:** beach, banks altered, riprap on shoreline, bulkhead

**Plants in area:** no water plants in area

**Water depth:** 2 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	10:19 AM	60 °F	15.55°C	
	10:20 AM	60°F	15.55°C	
	11:18 AM	69°F	20.55°C	
	11:50 AM	64°F	17.77°C	
Wind Speed & Direction	TIME	Beaufort chart	TIME	Anemometer read as Beaufort units
N	10:45 AM	2	10:45 AM	4
NE/E	10:55 AM	1-2	10:55 AM	0
	11:00 AM	1	11:00 AM	0
S/E	12:00 PM	5	11:05 AM	5
S/E	12:30 PM	3	12:15 PM	5
			12:20 PM	6
			12:30 PM	5
Wind				
Cloud Cover	10:23 AM	Partly cloudy	11:11AM 11:52 AM	Mostly Cloudy
Weather today	No rain but clouds increased all during the day			
Weather last 3 days				
<i>Water</i>	Calm			
<i>Water Temperature</i>	10:21 AM	17.77°C 16.66 17.22	64°F 62 63	63°F 17.22°C

	11:10 AM	16.66°C 17.22 18.33	62°F 63 65	63.3°F 17.22°C
	11:55 AM	17.77°C 18.33 18.33	64°F 65 65	64.7°F 18.16°C
<b>Turbidity</b> <b>Long site tube</b>	11:30 AM	31.5 cm 30.5 47.5		36.5 cm average
	12:40 PM	39 33 40		37.3 cm average
<b>Chlorophyll</b>				
<b>Chemical</b>				
DO <i>Drop count</i>	11:02 AM	5 mg/L	18 ° C	50%
pH <i>Litmus paper</i>	11:45 AM	7 (X3)		
Salinity <i>hydrometer</i>	11:00 AM	1.8 ppt 3.0 ppt 1.0 ppt		Average 1.9 ppt
<b>Fish Catch</b>	<b>Teamed with Tom Perry's High School for this</b>			
<b>Tides</b>	10:15 AM	rising		Tied yellow tape on the bulkhead & observes change
	11:14 AM	rising		
	12:00 PM	rising		
<b>Currents</b>	<b>Time</b>			
	10:31 AM	N, SE	Flood	
	12:05 PM	N, NW	Flood	
<b>Observations on current</b>	The river is very wide here and it is difficult to get the oranges out to the middle. There is also a cement structure not from the shore that could effect the current. Some of the oranges actually washed back to the shore because of the waves.			
<b>Other Observations</b>				