

**Snapshot Day 10/7/08
(Salt Front RM 63.4)
RIVER MILE 2**

**Katie Mosher-Smith – NY/NJ Baykeeper
Roy Arezzo, Ann Fraioli & New York Harbor School/9th grade– 22 students
Latitude N 40°43.267 Longitude W074°00.784**

Looking south from Pier 40. Photo runs east to west, sampling site is approx 400 ft out from land.



NYHS student makes observations; classmates in Whitehall Gig in background.

Location: Pier 40 North River

Area: large pier surrounding water access – 400 feet of waterfront

Surrounding Land Use: 100% former industrial usage converted to public access programs (education, boating, recreation)

Sampling Site: Bulkhead (wood timbers/metal plates, piping entering water – did not assess)

Plants in area: None

Water depth: 10-15 ft. estimated depth

River Bottom – known to be muddy, relatively calm except for occasional large rolling wakes

Tides – Low Tide 8:28 AM High Tide 2:44 PM

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	Noon	67.1°F 19.5°C		
	1:00 PM	75.5°F		

		24.3°C		
	2:00 PM	78°F 25.6°C		
Wind Speed	Noon 1:00 PM 2:00 PM	0 knots 1 knots 1 knots		
Cloud Cover	Clear			
Weather today	Wind picked up slightly towards 2PM			
Weather recently				
<i>Water Temperature</i>	Noon	64.4°F 18°C	3 repetitions all the same	64.4°F average 18°C
	1PM	57.2°F 14°C (2 reps)	62.6°F 17°C	59°F average 15°C
	2PM	64.4°F 18°C	66.2°F 19°C 65.3°F 18.5°C	65.3°F average 18.5°C
<i>Turbidity</i>	12:45 PM 1:45 PM 2:30 PM	9 readings taken – 3 each hour		All > 61 cm (using 61 cm tube)
<i>Chlorophyll Chemical</i>				
DO (ampules)	12:30	18 °C	5.3 mg/L	56% saturation
	1:30	15 °C	6 mg/L	60% saturation
	2:30	18.5°C	6 mg/L	64% saturation
pH	12:30 PM	7.5	3 repetitions	7.5
	1:30 PM	7	7.5 (2 repetitions)	7.3
	2:30 PM	7.5	7 (2 repetitions)	7.2
Nitrate				
Salinity (Hydrometer)	12:15 PM	14 ppt	3 repetitions	14 ppt avg.
	1:15 PM	17 ppt	14 ppt (2 reps)	15 ppt
	2:15 PM	12 ppt	14 ppt (2 reps)	13.3 ppt