

**Day in the Life of the Hudson River 10/10/13 Data
(Salt Front RM 69.3)**

RIVER MILE 4

Pier 84

N 40.76408 W-74.001893

Mark Cheever, Carrie Robles and staff, Hudson River Park Trust

**Lavonne Hunter and staff, The Eagle Academy for Young Men, Bronx, 55, 7th
graders**



Location: Pier 84, is an educational pier used for picnics, boating, fishing take place at our sample site.

Area: Pier – bulkhead – mainly concrete & wood

Surrounding Land Use: 100% urban/residential

Sampling Site: Recreational pier – rocks near the edge, banks altered

Depth:

Plants in area: No plants

<i>ITEM</i>	<i>Time</i>	<i>Averages of 9 readings</i>	<i>Reading 2</i>	
<i>Physical</i>				
Air Temperature	11:40 AM 12:35 PM	25°C 25°C		
Wind Speed	11:50 AM 12:38 PM	Beaufort 1 Beaufort 1.5		
Cloud Cover	cloudy			
Weather today	Foggy, damp			
Weather recently	Some rain and humid			
<i>Water Temperature</i>	11:10 AM 12:02 PM	21°C 20.6°C		
<i>Turbidity Turbidity tube</i>	11:25 AM 12:20 PM	70.7 cm 62 cm		Water is brownish green

<i>Chlorophyll</i>				
<i>Chemical</i>				
DO Estuary wide monitoring Kit – measurement seemed low	11:10 AM 12:15 PM	4.6 ppm 3.5 ppm	21° C 20.6° C	50% 37% saturated
pH kit as above	11:17 AM 12:07 PM	7.1 7.2		
Salinity (hydrometer & refractometer)	11:12 AM 12:04 PM	Specific Gravity	1.010 1.012	14.3 ppt 16.7 ppt (using hydrometer conversion chart)
<i>Fish Catch</i>	Time	Species	Size	All caught on line
	12:30 PM	American Eel	28 inches	
	1:40 PM	White Perch	8 inches	
	1:43 PM	White Perch	9 inches	
	1:44 PM	White Perch	8 inches	
	1:53 PM	Spot	5 inches	
	1:57 PM	Spot	5 inches	
	2:06 PM	American Eel	~36 inches	
	2:11 PM	Blue Crab	No measure	
	2:15 PM	White Perch	8 inches	
	2:20 PM	Spot	4 inches	
	2:24 PM	White Perch	7 inches	
<i>Tides (from pier to water)</i>	Time	Distance to water	Rate of change	Flood or Ebb
	10:30 AM 10:55 AM 11:20 AM 11:45 AM	200 cm 183 cm 175 cm 169 cm	Start point 17 cm 8 cm 6 cm	Flooding Flooding Flooding
<i>Currents</i>	Time	1 Meter/secs	cms per second	Ebb/Flood/ Still
	10:30 AM	1/7	14cm /sec	
	10:55 AM	1/7.5	13 cm/sec	
	11:20 AM	1/3.5	29 cm/sec	
	11:45 AM	1/4	25 cm/sec	
<i>Boats</i>	All day	NYPD patrolboat	Service	Guarding USN destroyer in port

	All day	USCG patrolboat	Service	Guarding USN destroyer in port
	11:26 AM	Commercial – local Water taxi	Yellow	Southbound
	11:28 Am	Commercial Tug & Barge	‘Green Land Sea’ name	North
<i>Other Observations</i>				

NUMERIC RAW DATA TALLIES

DO	A: 11:10 B: 12:15	4 ppm 4 ppm 4 ppm 6 ppm 4 ppm 4 ppm 8 ppm 4 ppm 4 ppm	5 ppm 4 ppm 0 ppm 4 ppm 4 ppm 4 ppm	A: 4.6 B: 3.5	Measurements Seemed low
Salinity	A: 11:12 B: 12:04	1.010 1.010 1.010 1.012 1.012 1.012 1.010 1.010 1.010 (all units specific gravity)	1.012 1.013 1.010 1.013 1.012 1.011 1.010 1.012 1.012 (all units specific gravity)	A: 1.010 B: 1.011	Specific gravity was only unit of measure in common for hydrometer and refractometer
pH	A: 11:17 B: 12:07	7.7 7.7 7.7 7.7 7.5 7.5 7.5	7.7 8.7 7.7 7.7 8	A: 7.1 B: 7.2	
Temperature	A: 11:10 B: 12:02	23°C 20°C 23°C 20°C 22°C 21°C 20°C 20°C 20°C	22°C 19°C 20°C 22°C 22°C 19°C 22°C 19°C 21°C	A: 21°C B: 20.6°C	
Tides	A: 11:30/12:00 B: 12:20	Pier -water distance 6 feet 5'9" Delta: 3" (rising)	Only one measurement. 5'11" (falling)		A: Rising, B: Falling
Currents	A: 11:40 B: 12:30	Still.	Still.		A: Still B: Still
Air Temp.	A: 11:40 B: 12:35	25° C	25° C	A: 25° C B: 25° C	
Wind	A: 11:50 B: 12:38	Beaufort 1	Beaufort 1.5	A: Beaufort 1.25 B: Beaufort 1.25	