

Day in the Life of the Hudson River 10/20/15
EAST RIVER MILE 4.5 PM
East River, Hunter's Point, Long Island City, NY
Alex Servello, Academy for Careers in TV and Film, 12th APES
29 students, 3 adults
40° 44'38" N and 73° 57'36" W

Location: East River, Gantry Plaza State Park, Long Island City, Queens

Surrounding Land Use: Pier, Urban/Residential; Industrial/Commercial

Sampling Site: Shoreline is rocky with some plants (mainly light vegetation) and has piers and piping entering river. Concrete bulkhead. Under water electrical cables

Shoreline: Sandy & Rocky

Bottom: Rocky, muddy

Plants in water: 50% seaweed and 50% moss (small amount overall)

Water: Calm to choppy

Observation: bubbles/foam in the water

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	2:00 PM 2:01 PM 2:30 PM 2:38 PM 2:55PM 2:58 PM	19°C 18 21.1 21,19,19 21.1 20	66°F 64 70 68,66,66 70 68	
Wind Speed	2:00 PM 2:02 PM 2:50 PM	Beaufort 3 Beaufort 3 Beaufort 3 Beaufort	16 pmh	South South South
Cloud Cover	2:00 PM X2 2:10 PM 2:50 PM 2:56 PM	<25 % 26-50 % <25 % <25 %		
Weather today	No rain – sunny afternoon			
Weather last 3 days	No rain 40s on Monday and 60s on Tuesday, big fluctuation			
<i>Water Temperature – water from shoreline, not pier</i>	2:15 PM 2:20 PM 2:30 PM 2:43 PM	16°C X3 15°C X 3 15°C X3 16, 17/16.5 °C	61°F X3 60°F X3 60°F X3 62°F X3	
<i>Turbidity - long Sight Tube</i>	2:00 PM 2:17 PM 2:26 PM 2:40 PM 2:44 PM	71,67,71 Error in data 82, 84, 80.3 >120 cm 110/110/110	72 cm Mildly turbid 82.1 cm >120 cm avg 110 cm avg	

Chemical				
DO (CHEMetrics ampules)	2:00 PM 2:15 PM 2:20 PM 2:30 PM 2:48 PM	14°C 15°C 15°C 15°C 16.75°C	6,6 10 pm 8, 5, 5 ppm 5,6,6 ppm 4,5,3	6 ppm/75% 100% satur. 6ppm avg/60% 5.75 ppm/58% 4 ppm /45%
pH (test strips)	2:09 PM 2:20 PM 2:00 PM 2:30 PM 2:40 PM	6, 5 5,7,7 6,6,6,6 7,7,7,7 5,6,6,	Avg – 5.5 6.3 6 7 5.67	
Salinity (plastic Hydrometer)	2:00 PM 2:08 PM 2:20 PM 2:30 PM 2:40PM 2:41 PM	25.9 ppt 20 ppt 22.0 ppt 23.3 ppt 26 ppt (X4) 22 ppt		
Tides –	NR			
Currents	Time	Cm/30 sec	Cm/sec	Flood/Ebb/Still
	2:00 PM 2:03 PM 2:06 PM 2:08 PM 2:22 PM 2:24 PM 2:30 PM 2:30 PM 2:32 PM 2:53 PM 2:55 PM	1050 876 762 1016 585 584 1095 504 500 1070 906	35 29.2 25.4 33.9 19.5 19.46 36.5 16.8 16.67 35.7 30.2	Flood Flood Flood Flood Flood Flood Flood Flood Flood Flood Flood
Commercial Shipping* Ferry runs every 5 mins	1:53 PM 1:55 PM 1:56 PM 1:55 PM 2:07 PM 2:09 PM 2:15 PM 2:20 PM 2:23 PM 2:32 PM 2:52 PM	Boat Boat LI Fery Boat Police NYPD Police NYPD Ferry Ferry Ferry Tug boat Large barge	White Yellow White White White & Gray White & Gray White White/Blue NR Black/White Black	South light North loaded South loaded North loaded South loaded North loaded South light North loaded South loaded South light South loaded
Recreational	2:11 PM	Speedboat	White	South

<i>Boating</i>	2:14 PM	Speedboat	White	South
	2:25 PM	Speedboat	Black/White	South
	2:34 PM	Sm. Yacht	White	South
	2:45 PM	Medium Boat	White	North
<i>Observations</i>	Seagulls, pigeons Plenty of birds but almost no butterflies, dragonflies, or flying insects including bees. No animals.			