

Day in the Life of the Hudson River 10/20/15
EAST RIVER MILE 4.5
East River, Gantry Plaza at Newtown Creek
Mary Mathai, Hunters Point Community MS 7th graders
Uzma Shah, Baruch College Campus High School 12th grade,
50 students, 5 adults

Kim Estes-Fradis, New York City Department of Environmental Protection

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

Surrounding Land Use: Urban 80%; Grassy 15%; Rocky Shoreline 5%

Sampling Site: Shoreline is rocky with some plants and has piers and piping entering river

Plants in area: A few trees and tall grasses.

Sample Time: 10 AM

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:10 AM 10:32 AM 10:57 AM 11:19 AM 11:40 AM	13°C 12°C 13°C 13°C 15°C		
Wind Speed	10:10 AM 10:32 AM 10:57 AM 11:19 AM 11:40 AM	18 mph 13-18 mph 13-18 mph 25-31 mph 4-7 mph		
Cloud Cover	10:10 AM 10:32 AM 10:57 AM 11:19 AM 11:40 AM	65 % 50 % 50 % 25 % 25 %		
Weather last 3 days	No rain today and cool last few days			
<i>Water Temperature</i>	10:09 AM 10:30 AM 11:00 AM 11:28 AM 11:47 AM	15°C 13°C 12°C 14°C 13°C		
<i>Turbidity Sight Tube</i>	10:15 AM 10:35 AM 10:57 AM 11:22 AM 11:42 AM	48 cm 47.5 cm 49 cm 48 cm 43 cm	Clear Clear Clear Clear Clear	

<i>Chlorophyll</i>	10:25 AM 10:44 AM 11:04 AM 11:26 AM 11:50 AM	1.0 0.6 0.3 0.3 0.5		
<i>Chemical</i>				
DO (CHEMetrics ampules)	10:09 AM 10:30 AM 11:00 AM 11:28 AM 11:47 AM	15°C 13°C 12°C 14°C 13°C	7 ppm 8 ppm 7 ppm 6 ppm 6 ppm	65 % 75 % 65 % 60 % 55 %
pH (test strips)	10:14 AM 10:45 AM 11:02 AM 11:34 AM 11:53 AM	6 7-8 7 7-8 7-8		
Salinity (Hydrometer)	10:14 AM 10:45 AM 11:02 AM 11:34 AM 11:53 AM	24 ppt 24 ppt 22 ppt 22 ppt 22 ppt		
<i>Tides –</i>	10:10 AM 10:32 AM 10:57 AM 11:19 AM 11:40 AM	Rising Stay same Stay same Rising Rising		
<i>Currents</i>	10:10 AM 10:32 AM 10:57 AM 11:19 AM 11:40 AM	28 cm/sec 34 cm/sec 32 cm/sec 34 cm/sec 36 cm/sec		