

Day in the Life of the Hudson River 10/12/17
(Saltfront ~ HRM 65)
EAST RIVER MILE 5.6
East River, Hunter's Point, Long Island City, NY
Mary Mathai, Hunters Point Community MS fifty 7th graders,
Uzma Shah, Baruch College Campus High School twenty 11th graders,
Total of 70 students and 11 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: Mixed use space. Mostly residential, some commercial spaces. Urban 80%; Grassy 15%; Rocky Shoreline 5%

Sampling Site: Rocky shoreline. Landscaped green space/park. NYC water taxi and two schools nearby.

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	10:20 AM 10:35 AM 10:55 AM 11:17 AM 11:43 AM	14°C 16°C 14°C 15°C 19°C		
Wind Speed & Cloud Cover	10:20 AM 10:35 AM 10:55 AM 11:17 AM 11:43 AM	Beaufort #3 Beaufort #4 Beaufort #3 Beaufort #2 Beaufort #2	Gentle Breeze 4 Moderate 3 Gentle 2 Gentle 2 Gentle	Overcast Mostly Cloudy Mostly Cloudy Mostly Cloudy Mostly Cloudy
Weather last 3 days	Some rain last day			
<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</i> Sight Tube Reading	10:30 AM 10:59 AM 11:05 AM 11:25 AM 11:45 AM	87 cm 77.5 cm 115 cm 86 cm 92.5 cm	Somewhat Turbid all readings	*Note: water samples collected for each round & taken from different water depths
<i>Chlorophyll</i>	11:30 AM	0.1		

	10:59 AM 11:05 AM 11:25 AM 11:45 AM	0.0 0.5 0.5 0.5		
<i>Chemical</i>				
DO (CHEMetrics ampules)	10:26 AM 10:35 AM 10:55 AM 11:16 AM 11:37 AM	16°C 15°C 15°C 17°C 16°C	6 ppm 6 ppm 6 ppm 7 ppm 6 ppm	60 % 60 % 60 % 70 % 60 %
pH (test strips)	10:15 AM 10:34 AM 10:56 AM 11:19 AM 11:39 AM	6 5.5 6 6 6		
Salinity (Hydrometer)	10:15 AM 10:34 AM 10:56 AM 11:19 AM 11:39 AM	23 ppt 23 ppt 22 ppt 23 ppt 22 ppt		
<i>Tides –</i>	10:20 AM 10:35 AM 10:55 AM 11:17 AM 11:43 AM	146 inches 138 inches 130 inches 124 inches 118 inches	Set point Rising Rising Rising Rising	
<i>Currents</i>	10:20 AM 10:35 AM 10:55 AM 11:17 AM 11:43 AM	36.3 cm/sec 31.5 cm/sec 39.6 cm/sec 46 cm/sec 36.3 cm/sec	14.3 inches/sec 21.4 inches/sec 15.6 inches/sec 18.1 inches/sec 14.3 inches/sec	
<i>Organisms found from the Oyster Cage – part of the BOP</i>	Sandworm Shore Shrimp Sea Sponge Polychaete Tunicates/Sea squirt (most abundant) Green Crab (least abundant) Mud crab (least abundant) Seaweed/Algae			