

Day in the Life of the Hudson River 10/22/19
PIER 1 GANTRY STATE PARK, LONG ISLAND CITY
RIVER MILE: 5.7
Salt Front: ~RM 53
P.S./I.S. 78Q- Jessica Batson, Alex Pistell
90 students 5th grade
New York State Parks- Devin Gorsen
Latitude 40.74497 N & Longitude – 73.95849 W

Location: Pier 1, Gantry Plaza State Park, Long Island City, East River, Queens, NY
Surrounding Land Use: 80% Urban; 15% Grassy; 5% Rocky
Sampling Site: Shoreline is rocky with some plants and piers
Time Frame: 9-11 AM

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature</i>	9-11 AM		59 ° F	
<i>Wind Speed: anemometer</i>	9-11 AM	Beaufort: 1 1 - 1 1 1 1.5 2 1 1 - 1	1.1 mph 0 mph 1.1 mph 2.5 mph 1.3 mph 2.6 mph 3 mph 2.2 mph 2 mph 7 mph - 1 mph	East Northeast East North Northeast East Northeast East North East - East
<i>Weather today</i>	Overcast 100%			
Tides-	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>
NA				
Current-	<i>m/second</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
9-11 AM	0.08 0.03 0.03 0.03 0.02 0.02 0.05 0.06 0.15 0.1 - 0.03		NA	NA
<i>Water Temperature</i>	9-11 AM	16 ° C 15 ° C 15 ° C 15.5 ° C 15 ° C 15 ° C 15 ° C 15 ° C		Avg: 15.2 ° C

		15 ° C 15 ° C 16 ° C 15 ° C		
Turbidity - long sight tube	9-11 AM	50 cm, 31 cm, 37 cm, 46 cm, 38 cm, 41 cm, 50 cm, 39 cm, 41 cm, 44 cm	Average: 41.7 cm	
Chemical				
<i>Salinity- ppt</i> <i>Time</i> 9-11 AM	<i>Refract- TS</i> 29000 22000 21000 20000 20000 22000 19500 20000	<i>Refractometer: density</i> 1.02 1.016 1.015 1.014 1.014 1.016 - - - - 1.013 1.014	<i>Hydrometer</i> 20000 22000 21000 20000 19000 20000 21000 24000 20000 - 20000 20000	<i>Refractometer Avg.</i> 21687.5 ppm <i>Hydrometer Avg:</i> 20,636 ppm
<i>DO –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	9-11 AM	15 ° C- 16 ° C	5, 4, 4, 7, 5.5, 4, 5, 4, 5, 5, 5	Avg: 4.86 ppm
<i>pH –</i>	9-11 AM	7.5, 7, 7.5, 6.5, 7, 7, 6.5, 6.5, 6.5, 6.5, 6, 6.5		Avg: 6.75
Fish	Number	Name	Length of longest	
	1	Black Sea Bass		
Fish Totals	TOTAL: 1	Diversity: 1		
Macroinvertebrates	Number	Name	Length of longest	
	2	Mud Crab		
	1	Clam Worm		
	2	Isopod		
	1	Amphipod		
Macroinvertebrate Totals	TOAL: 6	Diversity: 4		