

Day in the Life of the Hudson River 10/14/21
BROOKLYN BRIDGE PARK (EAST), BROOKLYN
RIVER MILE: 1.7 Pier 5 (EAST RIVER)

Salt Front: ~ RM 49

Packer Collegiate Institute- Jessica Genter and 8 adults
 76 students, 7th grade

Latitude 40.70445 N & Longitude – 73.99373 W



Location: Pier 5 of Brooklyn Bridge Park, Brooklyn, NY

Area: Developed set of piers with some grass.

Surrounding Land Use: 70% Urban/residential; 20% Industrial/commercial; 10% beach

Sampling Site: South of boat marina and in front of the soccer field.

Shoreline: Beach, Riprap

River Bottom: Sandy, Muddy, Rocky

Water: calm

ITEM	Time	Reading		Comments
Physical				
Air Temperature	9:35 AM	21 ° C	69.8 ° F	
	10:24 AM	24.3 ° C	75.74 ° F	
	11:00 AM	26.5 ° C	79.7 ° F	
	12:30 PM	27 ° C	80.6 ° F	
	1:07 PM	29.7 ° C	85.46 ° F	
	1:50 PM	26.9 ° C	80.42 ° F	
Wind Speed: <i>*It is certainly possible for wind to change direction, but very common for students to record the direction 'to' not 'from'</i>	9:36 AM	2 m/s	South	Beaufort 2
	10:28 AM	1.2 m/s	Southwest	Beaufort 2
	11:00 AM	1.4 m/s	West	Beaufort 1
	12:34 PM	2 m/s	Southeast	Beaufort 2
	1:16 PM	1.5 m/s	Southwest	Beaufort 2
	1:51 PM	2.9 m/s	*Northwest	Beaufort 2
Weather today	All day- No rain, clear (<25%) to partly cloudy (25-50%)			
Weather the past 3 days:	No rain			
Tides- dock to water	Time	Rising, Falling, Unchanged	Height (cm)	
	9:34 AM	-	62 cm	
	10:24 AM	Falling	70 cm	
	11:00 AM	Falling	369 cm	
	12:32 PM	Rising	336 cm	
	1:05 PM	Rising	306 cm	
	1:52 PM	Rising	284 cm	
	2:12 PM	Rising	278 cm	

Current-	Time	Cm/sec	Knots	North/South	Ebb/Flood/Still
*Quite a lot of variability here but the area is in a cove which would affect this.	9:48 AM	25	0.49	South	Ebb
	9:58 AM	17.94	0.35	South	Ebb
	10:27 AM	70	1.36	South	Ebb
	10:55 AM	26.92	0.52	South	Ebb
	11:03 AM	7	0.14	South	Ebb
	12:36 PM	115.02	2.24	South	Ebb
	1:18 PM	29	0.56	South	Ebb
	1:58 PM	63.6	1.24	South	Ebb
Water Temperature-	9:37 AM	21 ° C		69.8 ° F	
	10:10 AM	21 ° C		69.8 ° F	
	10:46 AM	21 ° C		69.8 ° F	
	12:30 PM	22 ° C		71.6 ° F	
	1:09 PM	22 ° C		71.6 ° F	
	1:45 PM	23 ° C		73.4 ° F	
Turbidity- Long sight tube	9:42 AM	59.75 cm			
	10:26AM	59 cm			
	11:12 AM	58.3 cm			
	12:46 PM	88.3 cm			
	1:24 PM	74.6 cm			
	2:05 PM	60.6 cm			
Chemical					
Salinity-		<i>Hydrometer</i>		<i>Refractometer</i>	
	9:42 AM	21.5 ppt		21.5 ppt	
	10:24AM	22 ppt		21.3 ppt	
	11:11 AM	25 ppt		21 ppt	
	12:45 PM	23 ppt		23.6 ppt	
	1:24 PM	21.6 ppt		24.6 ppt	
	2:05 PM	22 ppt		24.5 ppt	
DO –	<i>Time</i>	<i>Temp</i>		<i>ppm DO</i>	<i>% saturation</i>
	9:55 AM	21 ° C		7	76%
	10:30 AM	21 ° C		7	76%
	11:10 AM	21 ° C		8	76%
	12:55 PM	22 ° C		7	80%
	1:50 PM	22 ° C		8	90%
	2:05 PM	23 ° C		7	80%
pH –	9:27 AM	7			
	10:10 AM	7.5			
	10:51 AM	7.75			
	12:37 PM	7.25			
	1:15 PM	7.5			
	1:50 PM	7.75			
Biological					
Fish	Number	Name		Length of longest	Length of smallest
	1	Herring			-
	52	Atlantic Silversides			
Fish Totals	TOTAL: 53	Diversity: 2			
Macroinvertebrates	Number	Name		Length of longest	Length of smallest
	91	Comb Jelly			
	2	Moon Jelly			
Macroinvertebrate Totals	TOTAL: 93	Diversity: 2			