

Day in the Life of the Hudson River 10/14/21

East River State Park Brooklyn Fire House

RIVER MILE: 4.1

Salt Front: ~ 49

Jennifer Bombarbier Lower East Side Ecology Center

NEST+4 (01M539) - 54 students & 8 adults

Latitude & Longitude – Latitude N & Longitude –

Location: East River State Park Brooklyn Fire House, Brooklyn NY

Area: Sampling by the Fire House – over the railing and oyster cages

Surrounding Land Use: Urban area

Sampling Site:

Shoreline:

Water Depth:

Plants in area:

River Bottom description:

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature</i>	11:30 AM	22.8° C	73° F	
<i>Wind Speed:</i>	11:30 AM	<i>Anemometer</i> NR	<i>Beaufort</i> 2	<i>Direction</i> NW
<i>Weather today</i>	11:00 AM	26-50% cloud cover	No rain	
<i>Weather the past 3 days:</i>	Partly cloudy, humid, windy, and sunny			
<i>Tides- NR</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	
<i>Current- NR</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i> <i>Ebb/Flood/Slack</i>
<i>Water Temperature-</i>	12:55 PM	21° C	70° F	
<i>Turbidity- Long Sight Tube</i>	10:20 AM	86 cm		
Chemical				
<i>Salinity- hydrometer</i>	10:20 AM	23 ppt		
<i>Standardized Salinity- refractometer</i>	11:05 AM	25,000 ppm		
<i>DO – Drop Count</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% Saturation</i>
	1:15 PM	21° C	8	90%
<i>pH – color match</i>	12:15 PM	7.5		
<i>Nitrates- NR</i>				
<i>Phosphates- NR</i>				
Biological				
<i>Fish -</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>
<i>*Oyster cage 10:00 AM</i>				
Fish Totals	TOTAL: 0	Diversity: 0		
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>
	3	Mud Crab	NR	NR
	2	Green Crab	3.5 cm	

	1	Shore Crab	< 3.5 cm		
	1	Unidentified Crab	NR		
Macroinvertebrate Totals	TOTAL: 4	Diversity: 7			
<i>Sediment Core -NR</i>					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
<i>Boats-NR</i>					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial					
Residential					