

Day in the Life of the Hudson River 10/14/21
GEORGE FREER MEMORIAL PARK, PORT EWEN

RIVER MILE: 90.5

Salt Front: ~ RM 49

High Meadow School- Gian Ascione and 3 teachers

20 students 8th grade

Latitude 41.910714 N & Longitude – 73.972606 W

Location: George Freer Memorial Park, Port Ewen, New York

Area: Park space with grassy area, used for picnics, fishing and boating.

Surrounding Land Use: Urban/Residential;

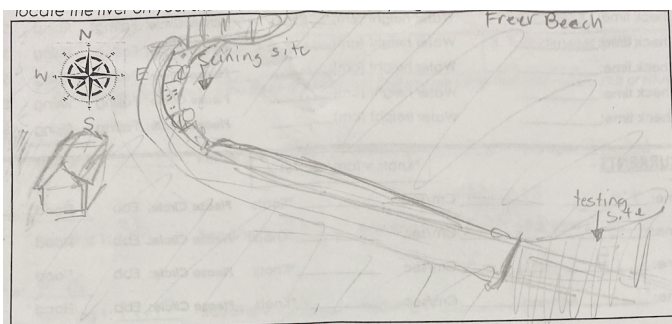
Recreation/Beach

Sampling Site: Grassy; parking lot nearby; light density forest trees nearby (Willow, Oak, staghorn sumac)

Shoreline: Sandy beach; banks partially altered by concrete bulkhead; drainage pipes (2) entering water north of bulkhead; may pieces of brick and coal lay around the beach

Plants in area: Water chestnut seeds

River Bottom: Sandy



<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature</i>	11:19 AM	30.1 ° C	86.1 ° F	
	12:06 PM	30 ° C	86 ° F	
	12:45 PM	28.3 ° C	83 ° F	
<i>Wind Speed:</i>		0.1 m/s	Beaufort 0	
<i>Weather today</i>	10:45 AM – Mostly cloudy 51-75%			
<i>Weather the past 3 days:</i>	No rain, sunny and unusually warm. On the 11 th , high of 23C / 73 F. On the 12 th , high 22C / 72 F. On the 13 th , high of 23 C / 73 F			
<i>Tides- tide stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>
	10:58 AM 12:45 PM	- Falling		
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>
	1:05 PM	3.72	0.07	South
	10:07 PM	5.30	0.10	South
	1:17 PM	15.91	0.309	South
<i>Water Temperature- collected from bucket</i>	12:27 PM	20 ° C	68 ° F	
<i>Turbidity- Long sight tube</i>	11:18 AM	26cm, 40.8cm, 32 cm,		Avg: 32.93 cm
	11:52 AM	35cm, 31 cm, 38.5 cm,		Avg: 34.8 cm
	12:45 PM	17.15 cm, 36 cm,		Avg: 26.75 cm
Chemical				
<i>Salinity- Meter</i>	1:24 PM	90 ppm		
	1:27 PM	90 ppm		
<i>DO – meter</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	11:43 AM	20 ° C	7.76	85%
	12:12 PM	20 ° C	7.76	85%
<i>pH –</i>	12:48 PM	7.4, 7.4, 7.4		
	1:19 PM	7.4, 7.4, 7.4		
Biological				
<i>Fish</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>
	22	Spottail Shiners	8 cm	6.5 cm

	2 169 4 1	American Shad Banded Killifish Mummichog Bluegill sunfish	11.4 cm 8.5 cm 5.9 cm	5.7 cm 6 cm	
Fish Totals	TOTAL: 198	Diversity: 5			
<i>Sediment Core</i>					
Time	H2S smell	Oxid Top	Oil	Grain Size	Other Features
1:25 PM	No	No	No	Clay- absent Mud- rare Sand- abundant Gravel – common Pebbles – rare	Brick- rare
<i>Boats</i>					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial	11:25 AM 12:45 PM		Red, Navy Red	North North	Loaded Loaded
Recreational	12:45 PM		White	South	Light