## Day in the Life of the Hudson River 10/22/19 GEORGE FREER MEMORIAL PARK, PORT EWEN RIVER MILE: 90.5 Salt Front: ~ RM53 High Meadow School- Gian Ascione 15 students 8<sup>th</sup> 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

ITEM	Time	Reading		Comments			
Physical							
Air Temperature	11:04 AM	16 ° C	61 ° F				
-	11:18 AM	16.7 ° C	62 ° F				
Wind Speed:	11:08 AM	0-0.2 mph	East				
anemometer	12:38 PM	1 mph	Southeast				
Weather today	Overcast >75%						
Weather the past 3	Three days prior have been dry, mild temperature (high 54-61F), two of the three days						
days:	were sunny.						
Tides-	Time	Rising, Falling, Unchanged	Height (cm)	Rate of Tidal Change (cm/min)			
	10:45 AM	Falling					
	11:15 AM	Falling					
	11:45 AM	Falling					
	12:15 PM	Falling					
	12:45 PM	Falling					
Current-	cm/second	Knots	North/South	Ebb/Flood/Still			
11:04 AM	0.17						
11:10 AM	1.7						
11:15 AM	3.5						
11:20 AM	3						
12:45 PM	4.9						
Water Temperature	11:15 AM	11° C	54 ° F				
	12:47 PM	16.7 ° C	62 ° F				
	1:32 PM	14.4 ° C	58 ° F				
Turbidity - long sight	11:12 AM	53 cm					
tube	12:30 PM	67 cm					
	1:27 PM	58 cm					
Chemical							
Salinity-	Time	Chloride ppm Cl <sup>-</sup>	Total Sal. Ppm				
NA							
DO –	Time	Тетр	ppm DO	% saturation			
NA							
pH – NA <b>Fish</b>	Number	Name	Length of longest				
Fish							
	32	Spottail Shiners	4 inches				
Fish Totals	TOTAL: 32	Diversity: 1					

Macroinvertebrates	Number	Name	Length of longest			
	13	Blue Crab		11 males, 2		
				females		
Macroinvertebrate Totals	<b>TOAL: 13</b>	Diversity: 1				
Sediment core						
Using push core sediment collection, only a few inches of gravel and pebbles could be sampled. Some bits of brick were possible as well. There were no obvious signs of living material (vegetation, shells)						
Observations						