Day in the Life of the Hudson River 10/05/2023 Louis Engel Park, Ossining, NY RIVER MILE: 32.5

Salt Front: ~ 52

Ossining High School-Bridget Kenny 30 students, 11th-12th grade, 2 adults Latitude 41.15483°N & Longitude -73.86959°W

Location: Beach at Louis Engel Park, Ossining, NY

Surrounding Land Use: 75% Urban/Residential, 25% Industrial/Commercial

Sampling Site: Bulkhead lines the shoreline with pier, rock wall, beach, riprap, rocky, weedy, used for picnics

and boats. Pipe enters the river north of the sample site.

Shoreline: 90% Sandy and 10% Rocky

Water: Calm

River Bottom: Sandy and slightly rocky **Plants in the water**: No plants in the water

*NR = Not read/recorded

*NR = Not read/red	Time	•				Соти		Commen	ments	
Physical Physical										
Air Temperature	11:00 AM 11:28 AM 11:50 AM		21.1 ° C 21.7 ° C 22.2 ° C			70° F 71° F 72° F				
Wind Speed:	11:28 AM		Anemometer			Beaufort 2		Direction Southeast		
Weather today	11:28 AM 11:30 AM		26-50% Cloud Cover			No Rain		Southeas		
Weather the past 3 days:		Unseasonably warm in the 80s and sunny								
Tides- Tide Stick	Time		Rising, Falling, Unchanged			Height (cm)				
	11:00 AM 11:04 AM 11:30 AM 12:00 PM		- Rising Rising Rising			0 cm 9 cm 15 cm 20 cm				
Current- NR	Time		Cm/sec		Knots	North/South		Ebb/Flood/Slack		
Water Temperature-	11:34 AM 12:00 PM 12:15 PM		21°C 24.5°C 22°C			69.8°F 76.1°F 71.6°F				
Turbidity- Long Sight Tube (120 cm)	11:19 AM 11:57 AM 12:31 PM		87 cm 88.6 cm 112 cm							
					Chemical					
Standardized Salinity- High Range Quantabs – 5.8 qt units		12:00	00 PM		1 ppm tota	l salinity	2.7 ppt		1517 Cl-	
Student Salinity- Hydrometer 11 11 11			44 AM 6 44 AM 6		3 ppm 7 ppm 0 ppm 3 ppm		8.9 ppt 6.7 ppt 6 ppt 2.3 ppt		averages	
DO – Lamotte Drop Cou	Time		Тетр		ppm DO			% saturation		
*Missing a reagent										
pH – Color Match Kit		11:14 11:20	11:14 AM 11:14 AM 11:20 AM 11:55 AM							

Nitrates- Lamotte Kit	11:15 AM	0 mg/l						
Phosphates- Color Match Kit	11:27 AM	0.2 mg/l						
		0.6 mg/	1					
		0.8 mg/	1					
		Avg: 0.5 mg/l						
Biological								
Fish- Seine (15 hauls)	Number Name				Length of longest	Notes		
11:15 AM-1:00 PM	24 Atlantic Silverside		9.5 cm					
Fish Totals	TOTAL: 24	Diversity: 1						
Macroinvertebrates	Number	Name			Length of longest			
	2	Harris Mud Crab			2 cm			
Macroinvertebrate Totals	TOTAL: 2	Diversity: 1						
Sediment Core	Time	Oxid Top	H ₂ S Smell	Oil	Grain Size	Other Features		
		No	No	No	Abundant: gravel	Common: brick		
					& pebbles	Rare: leaves,		
					Common: sand	macroinvertebrates,		
					Rare: mud	living vegetation,		
						coal, slag		

Boats								
Commercial/	Time	Type	Color	Southbound/	Light/			
Recreational				Northbound	Loaded			
Commercial	11:25		Red/Black	Northbound	Loaded			
Recreational	11:25		White	Southbound	Loaded			
Recreational	11:26		White	Southbound	Light			