Day in the Life of the Hudson River 10/05/2023 Fort Wadsworth Beach, Staten Island, NY RIVER MILE: -7.5 Salt Front: ~ 52 St. Clare School-Mary Lee National Parks Service-Kathy Garofalo DEP-Rob Brauman 60 students, 7th grade, 14 adults Latitude 40.59905° N & Longitude -74.0527°W



Location: Fort Wadsworth Beach, Staten Island, NY Surrounding Land Use: 65% Beach, 35% Forested Sampling Site: Forested, Grassy, Rip Rap, Wood Bulkhead Shoreline: 90% Sandy & 10% Rocky Water: Calm River Bottom: Muddy, Sandy & Rocky Plants in the water: No Plants in the water *NR = Not read/recorded

ITEM	Time	Reading			Comments				
Physical									
Air Temperature	11:00 AM	23°C		73.4°F					
Wind Speed:		Anemomet	er	Beaufort	Direction				
_	11:00 AM	5 mph			Northwest				
	11:50 AM	10 mph							
Weather today	11:00 AM	<20% Cloud Cover		No Rain					
Weather the past 3	It was between 60-70 degrees Fahrenheit. It was clear those days (following some bout w								
days:	rain prior to that)								
Tides- Tide Stick	Time	Rising, Falling,		Height (cm)					
		Unchanged							
	10:56 AM	-		80 cm					
	11:39 AM	Rising		92 cm					
	11:54 AM	Falling		65 cm					
Current-	Time	Cm/sec	Knots	North/South	Ebb/Flood/Slack				
	11:28 AM	3.6	0.07		Flood				
	11:42 AM	0.42	0.008		Ebb* should all be flooding				
	11:58 AM	3.7	0.072		Flood				
	NR	0.08	0.002						
Water Temperature-	11:00 AM	20°C		68°F					

Turbidity- Long Sight Tube (120 cm)	10:48 AM	27 cm					
			Che	mical			
Standardized Salinity- Refractometer)5 PM	25,000 ppm		25 ppt		
Student Salinity- Hydrometer		11 AM	23,000 ppm			23 ppt	
DO – Chemets Kit		ne	Тетр		ppm DO	% saturation	
)5 AM	20°C 19°C			9 ppm 8.5 ppm	100% 92%
pH – Color Match Kit		18 AM	8			· · · · ·	
Nitrates- Color Match Test Kit		17 AM	0 ppm				
<i>Phosphate-</i> Color Match Test Kit		17 AM	0.5 ppm				
Ammonia 11:18 AM		0.25 pp	m				
			Biol	ogical			
Fish- Seine (5 Hauls)		nber	Name			Length of longest	Notes
10:45 AM-12:00 PM		1	Summer Flounder			7 cm	
		1 17	Atlantic Menhaden Atlantic Silverside		4.5 cm 9 cm		
Fish Totals		TAL: 19	Diversity: 3				
<i>Macroinvertebrates</i>		nber	Name			Length of longest	
		92 1	Mole Crab Asian Shore Crab		3 cm 7 cm		
Macroinvertebrate Totals		TAL: 93	Diversity: 2				
Sediment Core	Tin	le	Oxid Top	H ₂ S Smell	Oil	Grain Size	Other Features
	25 cm 10::	56 AM	No	No	No	Abundant: Sand Common: Mud & Gravel Rare: Pebbles	<i>Common:</i> Coal

Boats								
Commercial/	Time	Туре	Color	Southbound/	Light/			
Recreational				Northbound	Loaded			
Recreational	11:30	Speed Boat	White/Blue	Southbound	Light			
Recreational	11:31	Spped Boat	Red	Northbound	Light			
Recreational	11:36	Yacht	White	Northbound	Loaded			