Day in the Life of the Hudson River 10/16/18 Data GEORGE'S ISLAND COUNTY PARK RIVER MILE: 40

Salt Front: ~RM 24

Fox Meadow Elementary- 86 students 3rd grade, Alethea Lynch Pleasantville High School- 14 students 22 parent chaperones, 12 teachers, 1 photographer Latitude 41.24936 N & Longitude -73.936474 W

Location: George's Island County Park, Westchester County, NY

Area: waterfront park, banks altered, bulkhead with wooden timbers, boat launch

Surrounding Land Use: Primarily, park picnic area and boat launch; forested area; parking lot

Sampling Site: Beach, riprap, and concrete bulkhead

Shoreline: sandy rocky with brick pieces

Plants in area: grass covers > than ½ of site – low cut, deciduous trees cover ¼ of site include sugar

maples, black locust, willows, hophorn beam, Common reed (Phragmites) covers

River Bottom: muddy

ITEM	Time	Reading	Comments				
Physical	•						
Air Temperature:	10:30 AM	59 ° F, 60 ° F	15 ° C, 15.56 ° C				
-	10:45 AM	60 ° F, 61 ° F	15.56 ° C, 16.1 ° C				
	10:55 AM	61 ° F, 62 ° F	16.1 ° C, 16.67 ° C				
	11:05 AM	62 ° F, 62 ° F	16.67 ° C, 16.67 ° C				
	11:46 AM	62 ° F, 62 ° F	16.67 ° C, 16.67 ° C				
	12:32 PM	62 ° F, 62 ° F	16.67 ° C, 16.67 ° C				
	12:41 PM	62 ° F, 61 ° F	16.67 ° C, 16.1 ° C				
	1:03 PM	62 ° F, 62 ° F	16.67 ° C, 16.67 ° C				
Wind Speed:	10:30 AM	Beaufort: 2	2.8 mph	South			
	10:45 AM	Beaufort: 3	3.1 mph	South			
	10:55 AM	Beaufort: 2	2.8 mph	South			
	11:32 AM	Beaufort: 3	2.9 mph	South			
	11:48 AM	Beaufort: 2	2.5 mph	South			
	12:34 PM	Beaufort: 2	2.3 mph	South			
	12:42 PM	Beaufort: 2	2.9 mph	South			
	1:05 PM	Beaufort: 3	4.3 mph	South			
Weather Today:	No rain, partl	No rain, partly cloudy all day (Cirrus/cumulus)					
Water Temperature	10:32 AM	52 ° F, 52 ° F	11.1 ° C, 11.1 ° C				
	10:51 AM	58 ° F, 59 ° F	14.4 ° C, 15 ° C				
	11:09 AM	60 ° F, 59 ° F	15.5 ° C, 15 ° C				
	11:25 AM	58 ° F, 56 ° F	14.4 ° C, 13.3 ° C				
	11:46 AM	56 ° F, 58 ° F	13.3 ° C, 14.4 ° C				
	12:32 PM	60 ° F	15.5 ° C				
	12:53 PM	59 ° F	14.4 ° C				
	1:08 PM	61 ° F	16.1 ° C				
Turbidity -	10:30 AM	52 cm		*Large			
Secchi Disk	10:52 AM	47.5 cm		fluctuations in a			
	11:13 AM	61 cm		short amount of			
	11:34 AM	44.5 cm		time.			
	11:52 AM	51 cm					
	12:31 PM	22.56 cm					
	12:48 PM	61 cm					
	1:07 PM	72 cm					
Chemical	·						
Salinity- Hydrometer	10:32 AM	Below Detection					
	11:43 AM	Below Detection					

DO – Estuary	wide	Time	Temp)	ppm DO	% saturation
monitoring K		10:30 AM	12 ° C		4	37
*DO reads ar		10:48 AM	15 ° C		4	40
Estuary wide		11:10 AM	15 ° C		4	40
resolution		11:26 AM	14 ° C		4	39
		11:46 AM	13 ° C		4	38
		12:28 PM	15 ° C		4	40
		12:51 PM	14 ° C		4	39
		1:07 PM	16 ° C		4	41
pH-			7.5		'	11
pii		11:25 AM	7.5			
Nitrates- Estu	arv Wide kit	10:30 AM	40 ppm			*This kit is
Tittates- Esta	ury mue ku	10:47 AM	5 ppm			very low
		11:08 AM	20 ppm			resolution. The
		11:23 AM	20 ppm			readings are
		11:40 AM	20 ppm			very high and
		12:32 AM	* *			variable
			5 ppm			variable
		12:53 AM 1:08 PM	15 ppm 15 ppm			
Fish –		Number	<i>Name</i>		Length of longest	
risn –		7			Lengin of longest	
		· ·	Striped Bass Banded Killif	iah		
		3				
		3	American Eel			
		I TOTAL 14	Hogchoker			
	-	TOTAL: 14	Diversity: 4		T	
Macroinverte	rbrates-	Number	Name		Length of longest	
		100	Blue Crab Shrimp		6 cm	
		2				
		2	Scud			
		TOTAL: 104	Diversity: 3			
Tit D			<u> </u>		D (CT: 1 1 CI	
Tides- Dock to water		Time	Rising,	Height	Rate of Tidal Change (cm/min)	
		10.20.434	Falling, Still	(cm)	(cm/min)	
		10:30 AM	-	27 cm	0.065	
		10:45 AM	Rising	26 cm	0.067	
		10:55 AM	Rising	25 cm	0.1	
		11:10 AM	Rising	24 cm	0.067	
		11:46 AM	Rising	23 cm	0.0278	
		12:32 AM	Rising	18 cm	0.11	
		12:41 AM	Rising	14 cm	0.44	
		1:03 PM	Slack	14 cm	0	F11/F1 1/0.**
Currents Flow		Time	Cm/second	Knots	North/South	Ebb/Flood/Still
		10:30 AM			South	Ebb
		10:45 AM			South	Ebb
Prosts Times		10:55 AM			South	Ebb
		11:07 AM			South	Ebb
		11:48 AM			South	Ebb/Slack
		12:36 AM			Still	Slack
		12:47 AM			Still	Slack
		1:05 PM	C 1		South	Ebb
Boats	Time	Name	Color		North/South	Loaded/Light
Commercial	10:00 AM	Barge	Green and Black		North	Loaded
Commercial	11:45 AM	-	Red and Black		North	Loaded
		Barge				