Day in the Life of the Hudson River 10/14/21 SCHODACK ISLAND STATE PARK RIVER MILE: 134.5

Salt Front: ~ *RM 49*

Chatham Middle School – 50 students, Tom O'Dowd Chatham High School- 50 students, Sandy Fischer Cary Institute of Ecosystem Studies Latitude 42.499487 N & Longitude – 73.776702 W



Location: Schodack Island State Park, Schodack Landing, Rensselaer County, NY

Area: 1052 acres- park and boat launch area- grassy area with concrete walkway, pier, forested, grassy,

parking lot, and boat launch

Surrounding Land Use: 70% Forested, 15% Urban/Residential, 55% Industrial/Commercial

Sampling Site: Boat launch, banks altered, covered in vegetation, riprap, concrete bulkhead, pipe entering the

water

Shoreline: 5% Sandy, 15% Muddy, 80% Rocky **Water**: 610 cm, deep drop off from the bank, calm

River Bottom: Rocky, muddy

Plants in the water: no plants in the water area

ITEM	Time Reading				Comments				
Physical									
	Time	Metal Thermometer		Anemometer Therm.		Wind	Dew		
						Chill	Point		
Air Temperature	9:21 AM	16.5 ° C	61.7 ° F	17.8 ° C	64.04 ° F	17° C	23.2° C		
	10:36 AM	21.6 ° C	70.88 ° F	18.9 ° C	65.84 ° F	18.9° C	23.2° C		
	11:15 AM	26 ° C	78.8 ° F	-	-	-	-		
	11:46 AM	-	-	24.6 ° C	76.28 ° F	24 ° C	23.2 ° C		
Wind Speed:	9:21 AM	1.3 m/s, 1.9m/s gusts		North		Beaufort 0-2			
_	10:36 AM	1.0-2.0 m/s, 1.0m/s gusts		North		Speed: 0-7 mph			
	11:46 AM	0.0-0.3 m/s				_	-		
Weather today	AM- Mostly cloudy (51-75%), PM- Overcast (>75%)								
Weather the past 3									
days:									
Tides- tide stick	Time	Rising, Falling,		Height (cm)					
		Unchanged							
Group 1:	9:55 AM		-	49 cm					
•	10:00 AM	R	ising	56 cm					
	10:05 AM	R	ising	59 cm					
Group 2:	9:58 AM		-	130 cm					
•	10:02 AM	R	ising	131 cm					
	10:11 AM	R	ising	133 cm					

	10.20.43.6			150		1
Group 3:			-	170 cm		
	10:25 AM		sing	180 cm		
	10:30 AM	Rising		180 cm +		Above the tide
Group 4:			-	175 cm		stick
	12:25 PM	Fa	lling	173 cm		
	12:30 PM	Fa	lling	172 cm		
Current-	Time	Cm/sec	Knots	North/Sou	th	Ebb/Flood/Still
	9:02 AM	37.5	0.73	North		Flood
).0 2 11111	29.5	0.57	North		Flood
	10:20 AM	69.1	1.34	North		Flood
	11:13 AM	0	0	Still		Still
	12:25 PM	10.837	0.21	South		Ebb
	12:55 PM	29.3	0.21	South		Ebb
Water Temperature	Time	Metal Theri		Anemomet	er Therm	EUU
Water Temperature	9:30 AM	15.56° C	60 ° F	17.5 ° C	63.5° F	
	10:54 AM	19.44 ° C	67 ° F	17.5 C 19.1 ° C	66.38° F	
	1:47 PM	19.44 C 18.89 ° C	66 ° F	19.1 C 18.4 ° C	65.12° F	
Thermocline Probe	1.47 PM			18.4 C	1	
	0.20 AM	Surface Ten	ıperature			emperature
Depth 2.5 m		18.9 ° C			18.8° C	
Depth 2.8 m		19.8° C			19.2 ° C	
Depth 2.9 m	1:47 PM	20.6° C			19.8° C	
Turbidity-		Secchi Disk			Long sigh	it tube
	9:30 AM	91.44 cm			42.5 cm	
	10:54 AM	124.97 cm			65 cm	
	1:47 PM	122 cm			101 cm	
		\boldsymbol{C}	hemical			
Salinity- Quantab	9:30 AM	< 29 ppm C	1-	Below Det	ection	
	10:54 AM	< 29 ppm C		Below Det	ection	
	1:47 PM	< 29 ppm C		Below Det	ection	
DO – titration	Time	Тетр		ppm DO		% saturation
		18°C		7.6 (average	e)	78%
pH – Aquachek strip	9:30 AM	7			,	
7	10:54 AM	5				
	1:47 PM	6				
Alkalinity- Aquachek	9:30 AM	80 ppm				*different location
strip	10:54 AM	40 ppm				
Strip	1:47 PM	40 ppm				
Nitrate/Nitrite	10:45 AM	23 ppm				
Phosphate- Aquachek	9:30 AM					
	10:54 AM	30 ppm				
strip	1:47 PM	25 ppm 30 ppm				
	1.4/1 WI		iological			
Fish	Number	Name		Length of lo	naost	Length of smallest
1 toll					ngesi	Lengin of smallest
	$\frac{1}{26}$	Spottail Shi		5 cm		-
<i>a</i>	36	Banded Kill		7 cm		
Seined onsite	10	White Perch		12		
	2	Pumpkinsee	ea Sunfish	12 cm		
	6	Bluegill	D	7.6 cm		
		Largemouth				
	1	Tessellated		7 cm		
71.1	1	Yellow Pero				
Fish Totals	TOTAL: 58	Diversity: 8	3			
Brought by DEC	1				-	
Brought by DEC	1	Smallmouth	Bass			
~ ·				•		

Brought by DE	C	1 White Suck			
		Вс	oat Traffic		
Boats	Time	Name	Color	North/Southbound	Light/Loaded
Commercial	9:38 AM	Boat	White	South	
	9:41 AM	Fuel Barge	Black, Red	South	Loaded
	10:15 AM	Salt Barge	Black, Blue	Docked	
	10:38 AM	Medium Boat	White	-	
	12:53 PM	Boat	-	-	
	1:06 PM	Tug, Barge	-	North	
	All Day	Container ship	Orange	Docked at Port of	
				Coeymans	
Recreational	9:32 AM	Speedboat		South	
	10:07 AM	Sailboat		South	
	10:07 AM	Speedboat		Docked	
	10:10 AM	Fishing boat		-	
	12:53 PM	Speedboat		South	
	1:11 PM	Speedboat		North	
	1:15 PM	Motor boat		South	_
Observations	Flock of geese, cormorants, water spider, salamander, belted kingfisher, bald eagle,				er, bald eagle,
	chipmunk, squirrel, water chestnut seeds, mosquitos, dog and deer tracks				