## Day in the Life of the Hudson River 10/05/2023 Henry Hudson Riverfront Park, Columbia County, NY RIVER MILE: 117

Salt Front: ~ RM 52

Chatham High School-Sandra Fischer

Cary Institute of Ecosystem Studies- Ashley Alred 32 students, 11<sup>th</sup> & 12<sup>th</sup> grade, 4 adults





Location: Henry Hudson Riverfront Park, City of Hudson, Columbia County, NY

Surrounding Land Use: 100% Industrial/Commerical

Sampling Site: Waterfront with banks altered to include wooden & concrete bulkheads and large riprap on

shoreline.

**Shoreline:** 100% Rocky

Water: Calm

River Bottom: 100% Rocky

Plants in the water: 5% Water Chestnuts & 5% Duckweed

\*NR = Not read/recorded

*NR = Not read/r		D 1:								
ITEM	Time	Reading			Comments					
Physical Phy										
Air Temperature	8:56 AM	17.5 ° C		64.04 ° F						
	9:26 AM	18.2 ° C		64.76 ° F						
	12:30 PM	25.7° C		78.26° F						
	12:42 PM	25.7° C		78.26 ° F						
Wind Speed:		Anemometer		Beaufort	Direction					
_	NR	1.5 mph		2	North					
	12:41 PM			1						
Weather today	10:30 AM	<25% Cloud Cover		No Rain						
Weather the past 3	Warm and o	Warm and clear; foggy in mornings								
days:		····								
<b>Tides-</b> Tide Stick	Time	Rising, Falling, Unchanged		Height (cm)						
	12:10 PM	N/A		57 cm						
	12:15 PM	Falling		50 cm						
	12:20 PM	Falling		48 cm						
	12:25 PM	Falling		47 cm						
	12:30 PM	Falling		45 cm						
	12:35 PM	Falling		44 cm						
Current-	Time		Knots	North/South	Ebb/Flood/Slack					
	9:26 AM	43.29	0.84		Ebb					
	9:59 AM	11.18	0.22		Ebb					
	10:00 AM	18.28			Ebb					

10:40 A			30.48		4.0		Ebb			
	12:33 PM 12:40 PM		25.4 25.4	0.4		Ebb Ebb				
Water Temperature-	10:49 AM		20.9°C		.,	69.62°F				
10:50 A			20.65°C			69.17°F				
	12:38 PM		20.45°C			68.81°F				
Turbidity- Long Sight	9:35 AM 33.93 cm		n							
Tube (120 cm)	10:36 AM 37 cm									
Secchi Disk (cm)	12:36 PM 5		57.6 cm							
Chemical										
Standardized Salinity- Low		12:50	) PM	30 ppm Cl-			54 ppm Total	1.4 quantab		
Range Quantabs						Salinity	reading			
<b>DO</b> – Meter/Probe		Time		Тетр			ppm DO	% saturation		
		9:55 AM		19°C			8.31 ppm	89.7%		
			10:54 AM		21.8°C 20.4°C		8.25 ppm	90%		
TT 1/			12:02 PM 10:42 AM		<u> </u>		8.31 ppm	90%		
<b>pH</b> – Meter		10.42	142 AW /.		7.6					
Test Stripes		10:46	6 AM 7							
				Bio	ological	!				
Fish-Seine (6 Hauls)		Num	Number		Name		Length of longest	Notes		
9:00 AM-11:			17 Banded Killi		d Killifi	sh	9.5 cm			
& 12:00 PM-1	:00 PM		1	1 Striped Bass			7.3 cm			
			25	rampamseed			14 cm			
				77 Bluegill			7.5 cm			
Fish Totals		TOT 120	TOTAL: 120		sity: 4					
Macroinvertebrates		Num	Number 1		Name		Length of longest			
2		Blue Crab (M)								
Macroinvertebrate Totals		TOT	TOTAL: Div		iversity:					
Sediment Core		Time	,	Oxid Top	H <sub>2</sub> S Smel	Oil	Grain Size	Other Features		
7.62 cm			No	No	No	Abundant: mud Common: gravel & pebbles	Abundant: Brick Rare: Wood			
		ı		ı	I	I	1 *	•		

Boats								
<b>Commercial/Recreational</b>	Time	Name	Color	Southbound/Northbound	Light/Loaded			
Recreational	9:10		White	Southbound				
	AM							
Recreational	9:26		White	Southbound				
	AM							
Commercial	9:26		White	Southbound	Light			
	AM							
Commercial	12:31		Black	Southbound	Loaded			
	PM							
Commercial	12:44		Black	Southbound	Light			
	PM							