## Day in the Life of the Hudson River 10/14/21 MATTHIESSEN PARK, IRVINGTON RIVER MILE: 25

*Salt Front:* ~ *RM 49* 

**Irvington Middle School-** Amy Panitz, Karen Bodnar 145 students, 6<sup>th</sup> grade

Irvington High School- Alex Lengers

55 students, 11-12<sup>th</sup> grade 20 adults total

## Latitude 41.04164 N & Longitude – 73.87398 W

Sampling Site: Matthiessen Park, Irvington NY

Area: The sampling beach has a pier, grassy area, large parking lot to the south. Area is primarily

used for boating, jogging, walking, picnicking, and fishing.

Sampling Site: Pier, forested, grassy, parking lot, beach, banks altered, riprap, wood bulkhead, pipe

entering the water

Surrounding Land Use: 30% Forested, 10% Beach, 60% Grass with playground

Shoreline: 90% sandy and 10% rocky.

**Plants:** few plants in the water

Water: 180cm depth, calm by the beach

River Bottom: sandy and rocky

ITEM	Time	Reading			Comments					
Physical										
Air Temperature	10:15 AM	19 ° C		66 ° F						
	10:30 AM	21 ° C		70 ° F						
	11:30 AM	21 ° C		70 ° F						
	1:30 PM	23 ° C		74 ° F						
Wind Speed:	10:15 AM	8 mph		North						
_	10:30 AM	9 mph		North						
	11:30 AM	6 mph		North						
	1:30 PM	7 mph		North						
Weather today	Light cloud cover throughout the day, no rain									
Weather the past 3	3 days prior: Sunny. 2 days prior: sunny. 1 day prior: overcast									
days:										
Tides- tide stick	Time	Rising, Falling, Unchanged		Height (cm)						
LT: for area 11:44 AM	8:15 AM	Ebb Ebb		-	*readjusted stick bc					
Seems it should be ebbing	8:45 AM			40 cm	ebb tide					
through this whole time but	10:00 AM	Rising		45 cm						
possible wave activity	10:30 AM	Rising		50 cm						
distorted this?	11:00 AM				*wave knocked over					
Current-	Time	Cm/sec	Knots	North/South	Ebb/Flood/Still					
*This probably is a flood	10:15 AM	29.4	6.98	South	Ebb					
although currents along	10:45 AM	28.6	7.8	South	Ebb					
the shallow edges of the	11:30 AM	29.4	4.3	South	Ebb					
Hudson can behave	1:30 PM	20	6.1	South	Ebb* (LT was at					
differently than the tides.					11:44AM)					
Water Temperature-	9:45 AM	21 ° C 22 ° C		69 ° F						
	10:15 AM			66 ° F						
	11:15 AM	20 ° C		71 ° F						
	12:15 PM	23 ° C		71 ° F						
	12:30 PM	22 ° C		71 ° F						
	1:30 PM	20 ° C		70 ° F						

Turbidity- long sight	0·45 AN	Л	45 cm			
tube		9:45 AM 10:15 AM				
inoc	10:15 A		48 cm 31 cm			
	11:15 A		38 cm			
	12:15 PI		29 cm			
	12:30 Pl		35 cm			
	1:30 PM		43 cm			
	1.5011	<u>.</u>		Chemical		
Salinity-	9:45 AN	1	6 ppt	enemicui		
Summy	10:15 A		5.5 ppt			
	10:45 A		6 ppt			
	11:15 A		6.5 ppt			
	12:05 PI		6 ppt			
	12:15 Pl		6 ppt			
	12:30 Pl		6 ppt			
	1:30 PM		6 ppt			
DO -	Time		Тетр		ppm DO	% saturation
_ <b>~</b>	9:30 AM		21 ° C		8	. 3 Survey William
	10:15 AM		21 ° C 22 ° C		8	
		10:15 AM			8	
		11:15 AM			9	
	12:15 PM		20 ° C 23 ° C		8	
		12:30 PM			8	
	1:30 PM		22 ° C 20 ° C		8	
pH –	9:30 AM		6			
	10:15 A	M	6			
	10:45 A	M	8			
	11:15 A	M	6			
	12:15 PI	M	6			
	12:30 PI	M	6			
	1:30 PM	[	6			
				Biological		
Fish	Number	•	Name		Length of longest	Length of smallest
		9		ch	20 cm	-
		4 17 25 2		er	10 cm	
				ass	13 cm	
				ilversides	8 cm	
				Eel	45 cm	
		1			7 cm	
	Fish Totals TOTAL: 5		8 Diversity: 6 Name			
Macroinvertebrates	Number	Number			Length of longest	Length of smallest
		46	Blue Crab	)		
Macroinvertebrate Totals TOTAL: 46		Diversity: 1				
Water Depth	H2S smell	Ox	xid Top	<i>liment Core</i> Oil	Grain Size	Other Features
50 cm	No		e to none	No	Abundant- clay	
					Common- mud	
					Rare- Sand, gravel,	
					pebbles	
				Boats		
	Time		Name		North/Southbound	Light/Loaded
Commercial	Early AM		Barge		North	
l l						
Recreational	Early AM All day		Barg		South North and South	

		throughout the day					
Observations	Upon arrival, there were small pieces of trash in the area, including a small sand shovel.						
	The beach was covered in driftwood. There were some geese flying over head throughout the day.						