## Day in the Life of the Hudson River 10/14/21 ENGLEWOOD BOAT BASIN, ENGLEWOOD, NJ RIVER MILE: 14

Salt Front: ~ RM 49

## Palisades Interstate Park- Christina Fehre Alpine School – Lisa Wolfe and 8 adults 43 students, 6-8<sup>th</sup> grade science Latitude 40.880581 N & Longitude – 73.944525 W

Location: Bloomers Beach (North end), Englewood Boat Basin, NJ

Area: Sandy beach, banks altered, pier with riprap sections, wood bulkhead, debris in area. Piping ~30 ft

located at sampling site. 2 concrete bulkheads and stone breakwaters on shoreline.

Sampling Site: Beach, parking lot

Surrounding Land Use: 40% Forested; 20% Beach; 20% Industrial/Commercial; 20% Urban/Residential

Shoreline: 90% sand; 10% muddy

Water: Choppy River Bottom: Muddy

ITEM	Time	Reading	Comments					
			hysical					
Air Temperature	10:12 AM	71 ° F		21 ° C				
<i>F</i>	10:54 AM	74° F		23 ° C				
	12:15 PM	76° F		24 ° C				
	12:46 PM	80 ° F		35.5 ° C				
Wind Speed:	10:00 AM -	Beaufort: 1-2						
	1:15 PM							
Weather today	No rain, party	cloudy (26-5	1					
Weather the past 3	Clear during the day, some rain at night.							
days:		-						
Tides- tide stick	Time	Rising, Falling, Unchanged		Height (cm)				
	10:23 AM	_		8 cm				
	11:02 AM	Rising Rising Rising		11 cm				
	12:25 PM			32 cm				
	12:57 PM			40 cm				
Current-	Time	Cm/sec	Knots	North/South		Ebb/Flood/Still		
	12:10 PM	38	0.74	North		Flood		
	12:35 PM	58	0.11	North		Flood		
Water Temperature-	10:20 AM	68 ° F		20 ° C				
collected from bucket	12:51 PM	73.4 ° F		23 ° C				
Turbidity- Long sight	10:25 AM	9 cm			Turbidi	ty was collecting in the		
tube	10:29 AM	5 cm 15 cm			same an	rea as seining, could		
	12:57 PM				contrib	ute to the low visibility		
		CI	hemical					
Salinity- Hydrometer &		Hydromete	r	HR Quantal	bs	ppm salinity:		
High Range QUantabs	10:17 AM	10 ppt		9.8 quantab		top of chart not use		
	12:26 PM	7 ppt 7 ppt		8.0 quantab		3463 –Cl /6256 total		
	1:00 PM			7.8 quantab	unit	3114-Cl/ 5966 total		
<i>DO</i> –	Time	Тетр		ppm DO		% saturation		
	11:16 AM	28 ° C		16 *reading	is high	185%		
	12:19 PM	23.5 ° C		8		93%		
	12:50 PM	23 ° C		11		126%		
pH –	10:55 AM	6, 6, 7, Avg: 6.3						
	12:33 PM	7, 6, 7, Avg	,					
	1:05 PM	6, 6, 6, Avg: 6						

Biological										
Fish	Number	Number N			Length of longest	Length of smallest				
		6		Silverside	23 cm	4 cm				
		18		hovy	8 cm	5 cm				
		1		hog	10 cm	-				
Fish Totals	TOTAL	TOTAL: 25		y: 3						
Macroinvertebrates	Number	r	Name		Length of longest	Length of smallest				
10 F, 6 M		17	Blue Crab		9 cm	0.5 cm				
		3	Shrimp		4 cm	2 cm				
Macroinvertebrate Tota	ls TOTAL: 20		Diversity: 2							
Sediment Core										
Length	H2S smell	2S smell Ox		Oil	Grain Size	Other Features				
10:34 AM	No	No		Yes	Clay- Rare	NA				
8.5 cm					Mud- Abundant					
					Sand – Common					
					Gravel- Rare					
Boats										
	Time	I	Name	Color	North/Southbound	Light/Loaded				
Commercial										
Recreational	10:20 AM	H	Kayak	Yellow	North	Light				
	10:23 AM		Boat	Navy	North	Light				
	10:55 AM	S	ailboat	White/Gray	South	Light				