Day in the Life of the Hudson River 10/05/2023 Alpine Boat Basin, Alpine, NJ RIVER MILE: 19

Salt Front: ∼ *52*

Alpine School- *Lisa Wolfe*

Palisades Interstate Parks- Liam Keegan and team 23 students, 6th grade, 4 adults

Latitude 40.94793°N & Longitude –73.91847°W

Location: North end of the Alpine Boat Basin, adjacent to a sandy beach area **Surrounding Land Use:** 74% Forested, 10% Beach, 16% Pier & Boats

Sampling Site: Sandy beach, altered banks, rip rap, bulkhead, pier, concrete, parking lot

Shoreline: Sandy **Water: NR**

River Bottom: Muddy

Plants in the water: No Plants in Water

*NR = Not read/recorded

ITEM	Time	Reading				Comme			3
				Physic	cal				
Air Temperature	9:44 A	AM 24 ° C				75.2° F			
•	11:10 AM		24 ° C		75.2° F				
Wind Speed:			Anemometer			Beaufort		Direction	
-	9:49 AM				2		North/Northeast		
	11:13 AM				2		North/Northeast		
Weather today	9:50 AM <25%		<25% C	6 Cloud Cover		No Rain			
·	11:09 A	11:09 AM <25% C		Cloud Cover					
Weather the past 3	Unusu	ally V	Varm, No	rain					
days: Tides- NR	Time Rising, Falling,					Height (cm)			
Tides-NK Tih		Unchang				Height (cm)			
Current-	Time		Cm/sec	Kno	ots	North/Sout	h	Ebb/Flood	l/Slack
Collected from the pier	10:07 AM		286					Ebb	
	10:10 AM		16.1					Ebb	
	10:13 AM		20.8					Ebb	
	11:26 AM		77					Flood	
	11:30 AM		59					Flood	
	11:32 AM		19					Flood	
	11:35 AM		17					Flood	
	11:38 AM		19					Flood	
Water Temperature-	10:20 A):20 AM 20°C							
Turbidity- Secchi at		10:19 AM 64		64 cm		Secchi from pier			
end of pier	10:26 AM		16.5 cm		Turbidity tube				
& Long Sight Tube	11:43 A		90 cm			Secchi from	*		
(120 cm)	11:45 A	AM	81.7 cm		Secchi from pier				
				Chemi					
Standardized Salinity- High Range Quantabs – 7.6 QT units		11:00	0 AM 5,588 ppm to		tal salinity 5.6 pp		TS 3093 ppm (
		10:40	0 AM 8,500 ppm		8.5 p			Average of 8 & 9 ppt	
DO – NR T		Time	Time Te		Гетр		ppm DO		% saturation
pH – Test Strips – not sure they were still good		2:20 PM		7					

Fish-Seine	Number	umber Name		Length of longest	Notes	
	18	Atlantic Silverside		7.6 cm		
	3	White Perch			17.78 cm	
	3	Hogchoker		15.24 cm		
	1	Flounder Spp.		13 cm		
Fish Totals	TOTAL: 25	Diversity: 4				
Macroinvertebrates	Number	Name		Length of longest	Smallest	
	2	Blue Crab		14 cm	3 cm	
	1	Moon Jellies			2.5 cm	
	1	Palaemonetes Shrimp Eastern Oyster		7.6 cm		
	1			5 cm		
Macroinvertebrate Totals	TOTAL: 5	Diversity: 4				
Sediment Core -NR	Time	Oxid Top	H ₂ S Smell	Oil	Grain Size	Other Features

Boats								
Commercial/	Time	Type	Color	Southbound/	Light/			
Recreational				Northbound	Loaded			
Commercial	9:39	Cargo Ship	Black	Still	Loaded			
Commercial	9:40	Cargo Ship	Black	Still	Loaded			
Commercial	11:04	Cargo Ship	Black	Northbound	Loaded			
Recreational	11:25	Boat	White	Southbound				