Day in the Life of the Hudson River 10/22/19 PLUM POINT, KOWAWESE, NEW WINDSOR RIVER MILE: 58.1

Salt Front: ~ *RM 53*

Vails Gate STEAM Academy – Krista Espinoza & Janet DeStafanso Black Rock Consortium- Jack Caldwell 45 students 4th grade, 10 adults Latitude 41.463043 N & Longitude – 74.0119 W

Location: Plum Point Park Beach, New Windsor, Orange County,

NY

Area: Northern sandy public beach bordered by forested area and parking lot. Area used for picnicking, fishing, and kayaking **Surrounding Land Use:** 25% Forested; 75% Beach

Sampling Site: Sandy Beach (cove)

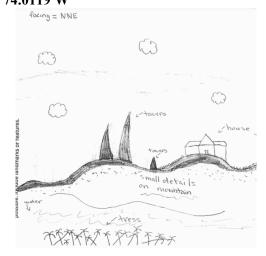
Shoreline: Beach area, riprap in area of sampling site, debris

(broken concrete and docking) in area.

Water: 2 ft, choppy

River Bottom: rocky, sandy

Plants in water: 10% water chestnut



ITEM	Time	Reading		Comments	
Physical					
Air Temperature	10:06 AM	57.3 °F	14 ° C		
_	11:30 AM	57.2 °F	14 °C		
Wind Speed:	10:15 AM	2.4 mph	Beaufort 2		
	10:41 AM	3.3 mph			
	11:05 AM	3.3 mph			
	11:27 AM	3.6 mph			
Weather today	Overcast (100%)				
Weather the past 3 days:	Rained 2 days before on 10/20/19				
Tides-	Time	Rising, Falling,	Height (in)	Rate of Tidal	
		Unchanged		Change (cm/min)	
	9:05 AM	Falling			
	10:55 AM	Falling			
	11:20 AM	Falling			
Current-	cm/second	North/South	Knots	Ebb/Flood/Still	
10:15 AM	3.1	3.1	0.06	Ebb	
10:41 AM	11.7	11.7	0.23	Ebb	
11:05 AM	.5	.5	0.01	Ebb	
11:27 AM	9	9	0.18	Ebb	
Water Temperature	10:20 AM	62 °F	17 °C		
	10:48 AM	62 °F	17 °C		
	11:10 AM	61 °F	16 °C		
	11:33 AM	62 °F	17 °C		
Turbidity- long sight	10:57 AM	54.4cm, 56.4 cm, 53.4 cm			
tube		Avg: 54.7 cm			
Chemical					
Salinity- Quantabs	Time	Chloride ppm Cl	Total Sal. Ppm		
	11:00 AM	Below Detection		Standardized Sal:	
		*maybe quantabs went		81 ppm total sal	
DO -	Time	bad Temp	ppm DO	% saturation	
<i>D</i> 0 –	1 time	1 emp	ррін ДО	/o saturation	

	10:30 AM	14 °C	8	80%
pH – pH strips	10:53 AM	7.5, 7.5, 7.5		
Fish	Number	Name	Length of longest	
Seine: 12:20 PM	2	American Eel	8 inches	
length 20'x pull 20'	1	White Perch	7 inches	
Number of pulls: 8	7	Striped Bass	2 inches	
Fish Totals	TOTAL: 27	Diversity: 3		
Macroinvertebrates	Number	Name	Length of longest	
Macroinvertebrate Totals	TOTAL:	Diversity:		
Sediment Core	Time	Oxid Top	Grain Size	Other Features
Length of core: 6 inches		No	Common: sand	Rare: wood, oyster
			D1 1	shells
			Rare: clay, mud,	SHCHS
			gravel, pebbles	SHCHS
Boats	Time	Name/Color		Loaded/Light
Boats	Time	Name/Color	gravel, pebbles	
Boats Commercial	Time 9:05 AM	Name/Color Barge	gravel, pebbles	
			gravel, pebbles North/South	
Commercial	9:05 AM	Barge	gravel, pebbles North/South South	
Commercial Commercial	9:05 AM 12:55 PM 9-1:00 PM	Barge Barge Sailboat	gravel, pebbles North/South South North	Loaded/Light