Day in the Life of the Hudson River 10/16/18 Data NUTTEN HOOK, RIVER MILE: 124.5 Green County, NY

Salt Front: ~ RM 24

Averill Park High School- Vicky Boulay 65-100 students 9th – 10th grade, 5 adults Latitude 42.358271 N & Longitude - 73.788178 W



Location: Nutten Hook, Green County, NY

Area: Beach, forested bluff, large marsh behind bluff, DEC public access, used for picnics, water access

Surrounding Land Use: 45% Beach; 55% Forested.

Shoreline: Sandy and rocky, riprap, banks altered in some areas with bulkhead, brick and slag on the ground

Water Depth: 3 feet

Plants in area: No plants in water area River Bottom description: Sandy, muddy

River Bottom description ITEM	Time	Reading	Panding	
	1 tme	Keuuing		Comments
Physical				
Air Temperature:				
Block #1B	9:16 AM	11 °C	51.8 °F	
Block #1A	9:47 AM	11 °C	51.8 °F	
Block #3A	~10:15 AM	10 °C	50 °F	
Block #8	~10:30 AM	10 °C	50 °F	
Block #3B	~11:40 AM	11 °C	51.8 °F	
Wind Speed:			Assume mph	Anemometer
Block #1B	~9:20 AM	5.2 mph		
Block #1A	~9:45 AM	3 mph		
Block #3A	~10:15 AM	6 mph		
Block #8	~10:30 AM	3 mph		
Block #3B	~11:45 AM	2.2 mph		
Water Temperature				
Group: #1		Avg: 13.7 °C	Avg: 56.66 °F	
Group #2		Avg: 13.07 °C	Avg: 55.53 °F	
Group #3		Avg: 12 °C	Avg: 53.6 °F	
Group #4		Avg: 13.4 °C	Avg: 56.12 °F	
Turbidity - long sight	Block #1A	9:15 AM	58.3 cm	
tube	Block #3A	9:46 AM	50.06 cm	
	Block #1 B	10:33 AM	36.6 cm	
	Block #3B	10:45 AM	51.4 cm	
	Block #8		35 cm	

Chemical				
Salinity- Probe	Group:	Conductivity uS/cm	Chloride ppm:	
2, 11000	#1	313		
	#2	312.1	31.2 ppm Cl ⁻	
	#3	312.9	T. P.F.	
	#4	310.6		
DO – Probe	Group	Тетр	ppm DO	% saturation
20 11000	#1	Avg: 13.7 °C	9.8	94%
	#2	Avg: 13.07 °C	9.57	90%
	#3	Avg: 12 °C	9.6	94%
	#4	Avg: 13.4 °C	9.6	91%
pH – Group:	Probe	Test strips*	*Test strips were hydrion paper – notes	
#1	Avg: 7.76	Avg: 6.18	on website: "not for measuring the pH	
#2	Avg: 7.86	Avg: 5.8	of natural waters, si	
#3	Avg: 7.7	Avg: 6.9	rivers and lakes."	ien as sireams,
#4	Avg: 7.93	Avg: 6.18	rivers and tanes.	
Fish	Number	Name	Length of longest	
1 1511	1vamoci	Tvume	(cm)	
	46	Spottail Shiner	9	
	2	Bay Anchovy		
	7	Striped Bass	12	
	39	Herring	10	
	10	White Perch	13	
	4	Banded Killifish	8	
Fish Totals	TOTAL: 108	Diversity: 6		
Macroinvertebrates	Number	Name	Length of longest	
	2	Beetles		
	16	Blue Crabs		
Macroinvertebrate	TOTAL: 18	Diversity: 2		
Totals Tides-	Time	Rising, Falling, Still	Height (cm)	Rate of Tidal
1 mcs	Time	nising, 1 ming, sim	Tieight (cm)	Change (cm/min)
Block #1B	9:06 AM	-	15	-
	9:28 AM	Still	16	0.045
Block #1A	9:39 AM	-	13	-
	9:58 AM	Falling	10	0.157
Block #3A	10:06 AM	_	8.5	-
	10:31 AM	Falling	2	0.26
Block #8	10:36 AM	-	6.5	-
	10:56 AM	Rising	10	0.175
Block #3B	11:40 AM	-	4	-
	12:05 PM	Falling	-3	0.28
*HT at 9:56 AM LT at	* Data doesn't	*Noted- suspect		
4:21 PM.	correspond to	sampling in cove		
•	COLLESDOUR IO		1	
	tides	1 0		
Currents Flow		affects tides Knots	North/South	Ebb/Flood/Still
	tides Cm/second	affects tides Knots	North/South	
Block #1B ~9:20 AM	tides Cm/second 3.75	affects tides Knots 0.073	North/South	*currents done in
Block #1B ~9:20 AM Block #1A ~9:45 AM	tides	affects tides Knots 0.073 0.91	North/South	
Block #1B ~9:20 AM Block #1A ~9:45 AM Block #3A~10:15 AM	tides Cm/second 3.75 4.688 3.947	affects tides Knots 0.073 0.91 .077	North/South	*currents done in
Block #1B ~9:20 AM Block #1A ~9:45 AM Block #3A~10:15 AM Block #8 ~10:30 AM	tides Cm/second 3.75 4.688 3.947 4.318	affects tides Knots 0.073 0.91 .077 .084	North/South	*currents done in
Block #1B ~9:20 AM Block #1A ~9:45 AM Block #3A~10:15 AM	tides Cm/second 3.75 4.688 3.947 4.318 5.263	affects tides Knots 0.073 0.91 .077		*currents done in