Day in the Life of the Hudson River 10/20/15 Data RIVER MILE 118

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Chatham & Taconic High School, Chatham NY
39 students 10th -12th grade, 9 adults



Location: Hudson River Waterfront Park, City of Hudson, Columbia County

Area: 1st dock in the waterfront property used for fishing, marina, picnics, large grassy

area, just north of the old quarry site, has a parking lot

Surrounding Land Use: 75% urban/residential, 10 % forested, 15%

Industrial/Commercial

Sampling Site: waterfront with banks altered to include wooden & concrete bulkheads and large riprap on shoreline,

Plants in area: Moss covering approximately 20% of shoreline

Water - Calm

River Bottom – muddy, rocky

	Time	Reading 1	Reading 2	Comments
Physical				
Air	9:30 AM.	9°C	49°F	
Temperature	10:00 AM	8.8	48	
_	10:35 AM	8	47	
	12:23 PM	13	56	
	12:54 PM	13	56	
Cloud Cover	9:30-1:00 PM			
	>75%			
Wind – wind	Time	Beaufort	MPH	Direction
picked up	9:30 AM.	1	2	

during day	9:57AM	1	0.6	
during day	10:35 AM	1	2.5	
	10.33 AM 12:23 PM		1.3	
		1	2.1	
Weather today	1:00 PM No Rain	1	2.1	
Weather		uras halavy 50°E am	d an avy vyithin laa	t 2 days
recently	Cool Temperatures, below 50°F and snow within last 3 days			
	1			
Water	calm	12.200	77.7607	
Water	9:13 AM	13.2°C	55.76°F	
Temperature –	9:27AM	14.0	57.20	
In 3 meters	10:01 AM	13.1	55.58	
depth of H2O	10:41 AM	13.3	55.94	
	12:20 PM	13.5	56.3	
	12:49 PM	14.5	58.1	
Turbidity –	NR	92.5 cm		Secchi
	NR	40 JTU		Short site tube
Chemical	Time	Temp C	DO ppm	% sat.
DO -	10:10 AM	13.1	10.1	95%
	10:41 AM	13.3	9.6	91
	12:03 PM	13.4	11.4	135
	12:39 PM	14.5	11.4	110
	12:50 PM	14.7	13.0	130
pH – Color	9:15 AM	7		
Match	10:00 AM	7		
	10:26 AM	7		
	12:17 PM	7		
	12:43 PM	7		
Salinity	Time	%	Chloride ppm	Total Salinity
Quantabs		, ,	Pr	ppm
Q	10:46 AM	0.006	38	69 ppm
	12:00 PM	0.006	32	69 ppm
Fish Catch	Time	Species	number	Size of largest
Seine net 20	Time	Species	itumoer	Size of inigesi
feet X 4 ft., 1.4				
inch mesh				
Diversity 2	9:25 AM	Largemouth Bass	1	15 cm bass
Total Catch7	9.23 AIVI	Shiner	$\begin{bmatrix} 1 \\ 6 \end{bmatrix}$	15 cm bass
	9:55 AM		1	13 cm bass
Diversity 5	J.JJ AIVI	Largemouth Bass Shiner		13 CIII Dass
Total Catch 30		Striped Bass	26	
		Yellow Perch	1	
		Bluegill Sunfish	1	
D: :: 2	10.50 43.5	- v	1	10 1:
Diversity 3	10:52 AM	Largemouth Bass	1	19 cm shiner
Total Catch 10		Shiner	4	
D.	10 11 77 7	Banded Killifish	5	11
Diversity 5	12:11 PM	Largemouth Bass	1	11 cm unknown

T . 1.C . 1.22		CI ·	1.7	
Total Catch 33		Shiner	17	
		Blue Gill	1	
		Banded Killifish	11	
		Unknown	3	
Diversity 4	12:45 PM	Largemouth Bass	2	10 cm shiner
Total Catch 38		Banded Killifish	18	
		Spottail Shiner	17	
		Darter	1	
	For the Day	Total Diversity 8	Total Catch	
			118	
Tides	9:15 AM	47 cm	Set	Water Height
	9:59 AM	40 cm	Falling	
	10:36 AM	25 cm	Falling	
	12:10 PM	0 cm	Still	
	12:50 PM	0 cm	Still	
Currents	Time	Cm/sec	E/F/S	Direction
	9:30 AM.	17	Ebb	(NW)
	10:03 AM	6.67	Ebb	(NW)
	10:35 AM	13.3	Flood	(SE)
	12:23 PM	6.7	Flood	(SE)
	12:54 PM	6	Flood	(SE)
Core Sample	Length/	Grain size	Plant Material	
	10 cm	Sand/muds/clay	No	
	5.5 cm	Sand/muds/clay	No	
	5.1 cm	Sand/muds/clay	No	
	8 cm	Muds & Clay	No	
	3.8 cm	Muds & Clay	NO	
10:45 AM	No length -	Clay, Mud	110	coal
10.4 <i>3</i> 1 111 1	Oxidized top	Ciay, wide		Cour
12:10 PM	2 inches	Mud	Gravel,	Brick, Living
12.101111	2 menes	IVIUU	Pebbles	Vegetation Vegetation
12:16 PM	None listed	Clay	1 000105	Mud, gravel,
12.10 1 141	Trone nated	City		pebbles
12:40 PM	None listed	Clay	Mud	pebbles
12.40 1 101	Trone fisted	Ciay	Widd	peobles
Traffic -	Time	Name	Color	Direction/Load
commercial				ed or Light
	10:15 AM	Bouchard	Black & Red	Southbound,
	10.15 / 1111	Bouchard	Black & Rea	loaded
	11:01 AM	Red Dog	Red & White	Southbound
	11.0111111	1100 200	1100 00 1111110	Light
	11:05 AM	Unknown	WHite	Southbound
	11.US AIVI	Ulikilowii	WIIIC	Light
Other Items	Water	Large rocks	Crab parts –	Seagulls and
Ginei Hems	chestnut seeds	Large rocks	-	ducks
	Chestilut seeds		legs and claws	uucks