Day in the Life of the Hudson River 10/20/16 Data (Saltfront ~ RM 83) RIVER MILE 117 (b) Shelley Forester, Cary Institute of Ecosystem Studies Jenny Jeffrey, Taconic Hills High School, Taconic Hills, NY 4 students, AP Environmental Science, 1 adult Latitude – N 42°25' Latitude – W -73°80'

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:** 50% Industrial/Commercial, 50% grassy park

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 – bottom rocky

	Time	Reading 1	Reading 2	Comments
Physical				
Air	9:55 AM	18.8°C	66°F	
Temperature				
Cloud Cover	9:52 AM	Partly cloudy		
Wind –	Time	Beaufort	MPH	Direction
	9:48 AM	1	0.5 m/s	NE
Weather today	No Rain			
Weather	Warm and dry			
recently				
Water	calm			
Water	9:22 AM	16.6	62°F	
Temperature –	9:24 AM	16.8	62°F	
	9:35 AM	16.8	62°F	
Turbidity –	9:13 AM	130 cm		Secchi – 120
		130 cm		cm avg
		100 cm		
	9:13 AM	40 JTU		Short site tube
		40		– 40 JTU avg.
		40		
Chemical	Time	Temp C	DO ppm	% sat.
DO -	9:22 AM	16.6	8.0	40%
	9:24 AM	16.8	7.0	35
	9:35 AM	16.8	10.0	100
pH – Color	10:38 AM	6, 5, 6		Avg. 5.75

Match				
Salinity	Time	%	Chloride ppm	Total Salinity
Quantabs				ррт
	10:41 AM		46 ppm	83 ppm
Alkalinity	10:51 am	40,40,40 ppm		Average 26
	10:42 am	20 ppm		ppm
	10:48 am	15, 15, 15 ppm		
Fish Catch	Time	Species	number	Size of largest
Seine net 20				
feet X 4 ft., 1.4				
inch mesh				
Diversity 4	12:50 PM	Banded Killifish	147	10 cm
Total Catch181				
		Spottail Shiner	23	11 cm
		Bluegill Sunfish	10	25.4 cm
		White Perch	1	20.3 cm
Tides	10:05 AM	80 cm	NR	
Currents	Time	Cm/30sec	Cm/sec	Kts - E/F/S
	10:00 AM.	495/30	16.5cm/sec	0.32 kts Ebb
Core Sample	Length/	Rare	Common	Abundant
	10 cm	Clay	Gravel	Mud
	oil top	Sand	Pebbles	
	±	Living		
		Vegetation		
Traffic -	Time	Name	Color	Direction/Load
commercial				ed or Light
	10:17 AM	Noelle Cutler	Black & Teal	Southbound,
				light