Day in the Life of the Hudson River 10/4/12 Data RIVER MILE 61.1 E

Beacon Waterfront Train Station Park, City of Beacon, Dutchess County Nancy Rypkema, Christine O'Shea, and 12 adult helpers/teachers - Valley Central Middle School, 7th & 8th graders (70 students) Latitude 41°30' 22" N - Longitude 73°59' 07" W

Location: Waterfront Park, Beacon, Dutchess County NY

Area: Park area near the Beacon train station - grassy lawns, forested around edges,

parking lot to the side. Children's play area

Surrounding Land Use: Park/grassy 60%, Urban/residential 10%; Forested 20%;

shoreline/beach 10%

Student assessment: There is a bridge, transit station (train) and trees,

Sampling Site: beach, covered in vegetation, banks altered, rip rap

Plants in area of sampling: oak trees 10%; willow trees 10%; Grass 60%; maple trees

20%

Water depth:

Bottom Surface: sandy, rocky bottom

ITEM	Time	Reading 1	Reading	Comments		
Physical						
Air	10:10 AM	21°C				
Temperature	10:25 AM	20				
	11:15 AM	20				
	11:25 AM	20				
	12:10 PM	21				
Wind Speed	10:10 AM -	Beaufort				
1	12:07 PM	#0				
Cloud Cover	Overcast all					
	AM					
Weather	Light rain 10:10 AM and 10:23 AM rotation.					
today	Drizzle 11:15 and 11:25 rotation.					
	No rain 12:10 rotation					
Weather	Rainy and humid					
recently						
water calm	Calm					
Water	Time	Degrees				
Temperature		°C				
	10:10 AM	20°C				
	10:25 AM	20				
	11:15 AM	20				
	11:25 AM	20				
	12:10 PM	21				
Turbidity	Time	Turbidity		Average		
		Tube				
	10:10 AM	62.5 cm				

	10.25 43.5	26		
	10:25 AM	36 cm		
	11:15 AM	38 cm		
	11:25 AM	40.8 cm		
	12:10 PM	36.4 cm		
Chlorophyll	10:10 AM	0.0		
	10:25 AM	0.0		
	11:15 AM	0.0		
	11:25 AM	0.0		
	12:10 PM	0.0		
Chemical	Time	DO	Тетр	% saturation
DO	10:10 AM	6 ppm	20C	70%
(drop kit)	10:25 AM	8	20C	80%
\ I /	11:15 AM	9	20C	95%
	11:25 AM	9	20C	95%
	12:10 PM	11	20C	100%
pH –	10:10 AM	8		- 30,0
test strips	10:10 AW	7		
est strips	10:25 AW 11:15 AM	7.5		
	11:15 AW	7.5		
	12:10 PM	7.5		
Nitrates	10:10 AM			
nurates		4.5 ppm		
	10:25 AM	4 ppm		
	11:15 AM	4.3 ppm		
	11:25 AM	4.4 ppm		
G 1' ''	12:10 PM	4.5 ppm	CII :I	T . 10 1: '
Salinity –	Time	Quantab	Chloride	Total Salinity
	10.10.43.6	reading	reading	conversion
	10:10 AM		92 mg/l Cl-	166 ppm salinity
	10:25 AM		97 mg/l	175 ppm salinity
	11:15 AM		97 mg/l	175 ppm salinity
	11:25 AM		92 mg/l	166 ppm salinity
	12:10 PM		92 mg/l	166 ppm salinity
Fish Catch	Number	Species	Length	<i>MACROs</i>
seine 9X4feet	Caught			
	1	Striped		Div = 6
		Bass		Total Catch =81
	12	Herring		
	1	Darter		
	36	Sunfish		
	~30	Spottail		
		Shiners		
	1	White		
	1	Perch		
	few	Baby Crabs		
Tidas		•	Flood/ELL	Data of change
Tides	Time	Tide Stick	Flood/Ebb	Rate of change
	10:09AM	11 cm	Still	

	10:23AM	16 cm	Flood	5 cm/14 mins
	11:12 AM	39 cm	Flood	23 cm/49 mins
	11:25AM	45cm	Flood	6 cm/13 mins
	12:07 PM	64 cm	Flood	19 cm/42 mins
Currents	Time	Cm/60 secs	Cm/sec	knots
	10:09AM		3.084 cm/s	0.06 kts
	10:23AM		3.084 cm/s	0.06 kts
	11:12 AM		2.313 cm/s	0.045 kts
	11:25AM		3.084 cm/s	0.06 kts
	12:07 PM		2.519 cm/s	0.049 kts