Day in the Life of the Hudson River 10/10/13 Data (Salt Front RM 69.3) RIVER MILE 61.1 E Beacon Waterfront Train Station Park, City of Beacon, Dutchess County Nancy Rypkema and total of 16 adults/teachers - Valley Central Middle School, 7th & 8th graders (76 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: Industrial/Commercial 30%, Urban/residential 10%; Forested 30%; shoreline/beach 10% Other (Parkland) 20%

Shoreline: There is a bridge, transit station (train) and trees, concrete debris, dock **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: 0.5 m

Bottom Surface: muddy, rocky bottom

ITEM	Time	Reading 1	Reading	Comments	
Physical					
Air	10:04AM	11.2°C	52.4°F		
Temperature	10:58 AM	13°C	54.1°F		
Wind Speed	11:00 AM	Beaufort	5.1 kts	NE	
		#1	3 mph		
Cloud Cover	Overcast				
Weather	Overcast - Sprinkled after 11:00 AM.				
today					
Weather	Monday tornado warning, Wed. sunny and cool				
recently			•		
Water	Choppy				
Surface					
Water	Time	Degrees			
Temperature		°C			
	9:40 AM	18.6°C	65.3°F	17.4°C	
		16.2	62.8	64.1°F	
	10:06 AM	17.7°C	63.2°F	17.4°C	
		17.5	63.4	63.3°F	
	10:28 AM	16.9°C	62.2°F	16.8°C	
		16.6	62.0	62.1°F	
	11:32 AM	15.6°C	60.3°F	15.5°C	
		15.4	60.4	60.4°F	
Turbidity	Time	Turbidity Tube		Average	

	11:40 AM	69.6 cm		65.7 cm
	11.1011.01	66 cm		
		61.5 cm		
Chlorophyll	10:10 AM	0.0		
Chiorophyn	10:25 AM	0.0		
	11:15 AM	0.0		
	11:25 AM	0.0		
	12:10 PM	0.0		
Chemical	<i>Time</i>	DO	Тетр	% saturation
DO	11:16 AM	7 ppm	16°C	70%
(drop kit)	11:45 AM	8		80%
(utop kit)	12:06 PM	8 7	16°C	80% 70%
			16°C	
pH – test	10:20 AM	7.0	Using probe	7.5
strips	10:30 AM	7.0		7.9
	11:08 AM	7.0		7.85
	11:30 AM	7.0		7.84
Nitrates	10:00 AM	0 ppm		
Salinity –	Quantab	Quantab	Chloride	Total Salinity
QTs- Time	reading	Average	reading	conversion
10:20 AM	7 & 7.2	7.1	581 ppm Cl-	1050 ppm T.S.
10:34 AM	7.9 & 7.6	7.8	680 ppm Cl-	1228 ppm T.S.
11:08AM	7.6 & 7.8	7.7	671 ppm Cl-	1212 ppm T.S.
11:30 AM	7.2 & 7.5	7.4	626 ppm Cl-	1131 ppm T.S.
Fish Catch	Number	Species	Length	MACROs
seine 9X4feet	Caught			
	1	Eel	10.2 cm	Div = 6
				Total Catch
				=81
			-	01
	1	White	10 cm	
	1	Perch		
	1	Perch Butter Fish	22.86 cm	
	1 2	Perch Butter Fish Killifish		
	1	Perch Butter Fish	22.86 cm 10 cm 10 cm	
	1 2	Perch Butter Fish Killifish Shiner Hog	22.86 cm 10 cm	
	1 2 25	Perch Butter Fish Killifish Shiner	22.86 cm 10 cm 10 cm	
	1 2 25	Perch Butter Fish Killifish Shiner Hog	22.86 cm 10 cm 10 cm	
	1 2 25 1	Perch Butter Fish Killifish Shiner Hog Choker	22.86 cm 10 cm 10 cm	
	1 2 25 1	Perch Butter Fish Killifish Shiner Hog Choker Summer Flounder Bay	22.86 cm 10 cm 10 cm	
	1 2 25 1 1	Perch Butter Fish Killifish Shiner Hog Choker Summer Flounder	22.86 cm 10 cm 10 cm 7.5 cm	
Total Catch	1 2 25 1 1 4 36	Perch Butter Fish Killifish Shiner Hog Choker Summer Flounder Bay Anchovy Diversity	22.86 cm 10 cm 10 cm 7.5 cm	
Total Catch 4 Macro	1 2 25 1 1 4	Perch Butter Fish Killifish Shiner Hog Choker Summer Flounder Bay Anchovy	22.86 cm 10 cm 7.5 cm 9 cm	
	1 2 25 1 1 4 36	Perch Butter Fish Killifish Shiner Hog Choker Summer Flounder Bay Anchovy Diversity	22.86 cm 10 cm 7.5 cm 9 cm	
4 Macro	1 2 25 1 1 4 36 3	Perch Butter Fish Killifish Shiner Hog Choker Summer Flounder Bay Anchovy Diversity Crab	22.86 cm 10 cm 7.5 cm 9 cm	
4 Macro 2 Macro	1 2 25 1 1 4 36 3	Perch Butter Fish Killifish Shiner Hog Choker Summer Flounder Bay Anchovy Diversity Crab	22.86 cm 10 cm 7.5 cm 9 cm	Rate of change

	10:06AM	9 cm	Ebb(Falling)	10 cm/26 mins		
	10:32 AM	10 cm	~still			
	11:00AM	7 cm	Ebb	2 cm/54 mins		
	11:45 AM	22 cm	Flood(Rising)			
Currents	Time	Cm/60	Cm/sec	knots		
		secs				
	Data not included as it didn't make sense					