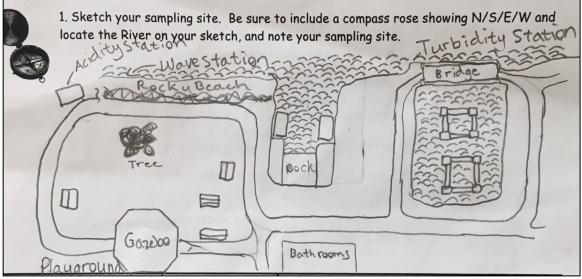
Day in the Life of the Hudson River 10/12/17 Data (Salt Front Estimated ~ RM 65) RIVER MILE 38 Haverstraw Bay County Park, Haverstraw Waterfront Beth Michaluk –21 students, 11th & 12th graders in RCC course on Environmental Pollution, 3 adults



Location: North beach, dock and walking pier, Haverstraw Bay Park, Haverstraw waterfront, Rockland County NY

Area: Parking lot, recreation, fishing

Surrounding Land Use: 20% parkland, 40% Industrial/commercial, 30%

urban/residential

Sampling Site: small beach, bank altered, large rip rap, bulkhead, concrete bulkhead, covered in vegetation

Water depth: 5 to 18 inches

Shoreline & River Bottom – 20% muddy, 40% sandy, 40% rocky

ITEM	Time	Reading 1	Reading 2	Comments
Physical				
Air Temperature	9:40 AM	15.7°C	59.7°F	
	10:30 AM	17	62.6	
	11:15 AM	17.2	63	
Wind Speed -	9:42 AM	4.4 mps	9.8 mph	Avg 3.9 mps
Anemometer	10:36 AM	2.8 mps	6.3 mph	/8.7 mph
	11:15 AM	4.5 mps	10:00 mph	North
				Beaufort 1-2
Cloud Cover	Mostly	51-75%		
	cloudy			
Weather today	Overcast	No rain		
Weather last 3	Rain		ł	L
days				
Water	calm			

Water Temp.	9:59 AM	20°C	68°F	
avg. depth 2.5 ft	10:50 AM	18	64	
uvg. uepin 2.5 ji	11:24 AM	18	64	
Turbidity – Long	9:30 AM	27cm	04	
site tube	10:30 AM	35 cm		
sile lube	11:30 AM	43 cm		
Chemical	11.30 Alvi	45 011		
DO	10:24 AM	20°C	10 ppm	110 % sat.
Drop count	10:24 AM 11:12 AM	20 C 18	12 ppm	125 % sat.
Drop count	11:40 AM	18	12 ppm 13 ppm	125 % sat.
nU colon match	9:45 AM	7.6		125 /0 Sal.
pH - color match test kit	10:57 AM	7.0		
iesi kii	10.37 AM 11:28 AM	7.4		
Salinity:	9:57 AM	1.5	3782 ppm Cl-	6832 ppm TS
<i>Quantabs HR</i>	10:50 AM		3782 ppm Cl-	6832 ppm TS
Quantaos IIK	11:22 AM		3782 ppm Cl-	6832 ppm TS
Hydrometer	9:57 AM	8 nnt	5762 ppin CI-	<i>Average 6.7</i>
Tiyarometer	10:50 AM	8 ppt		U
	11:22 AM	6 ppt 6 ppt		ppt
Turbidity - secchi	9:45 AM	60, 60, 60, 70	40.70 cm	Avg. 60 cm
Turbiany - secchi	10:40 AM	50, 50, 50, 60		Avg. 52 cm
	11:25 AM	50, 50, 50, 50		
Turbidity long	9:55 AM			Avg. 50 cm
Turbidity – long	9.55 AM 10:50 AM	30, 28, 38, 35, 34 cm 35, 32, 24, 22, 22, 22, 24 cm		Avg. 33 cm
sight tube	10.30 AM 11:30 AM	32, 26, 25, 46		Avg. 26.5 cm
Water very turbid,	Avg. 30.4 cm			
Fish				
Net 20 feet	Count	Species Atlantic	Length largest	DIV - 1
Nei 20 jeei	11	Silversides	6 cm	DIV - I
	11	Atlantic		TOTAL 16
	5	Silversides	5 cm	IOTAL IO
Tides	9:40 AM	50 cm		Set
Tues	10:00 AM	40 cm		Falling
	10:00 AM 10:20 AM	40 cm 36 cm		Falling
	10:20 AM 10:40 AM	35 cm		Falling
	10:40 AM 11:00 AM	35 cm		Still
	11:26 AM	35 cm 37cm		Flooding
	12:52 AM	55 cm		Flooding
Currents	<i>CM/30 secs</i>	Cm/Sec	North/South	Knots
	UNIT JU SELS		Ebb/Flood/	IXIIUt3
9:50 AM	32.15 cm/30s	1.1 cm/sec	Ebb	.02 kts
11:00 AM	21 cm/30s	0.7 cm/sec	Ebb	.02 kts
12:45 PM	56 cm/30s	1.9 cm/sec	Ebb	.04 kts
<i>Core</i> –	Properties	Rare	Common	Abundant
16 cm long	No smell, oil	Clay		Sand
	or oxidation	Pebbles		~ uiiu
	or oniquiton	1 000105		

		Wood			
Shipping –					
Commercial					
12:02 PM	Barge	Brown/Red	Southbound	Loaded	
12:57 PM	Tug/Fish	White	Northbound	Loaded	
	boat				
Shipping					
Recreational					
10:12 AM	Sailboat	White	Southbound	Light	
11:40 AM	Sailboat	White	Southbound	Light	
12:00 PM	Sailboat	White	Northbound	Light	
Observations	Many bricks, coal, crab shells, rocks, sand and devil's heads in				
	the area. Remnants of past brickyard industry, coal transport				
	and use, local industrial pollution. Many birds, chipmunks,				
	bees, butterflies and flies, deer, dead turtle, seagulls				