Snapshot Day 10/14/10 Data (Salt Front RM 36) RIVER MILE 39.5

George's Island, Montrose, Westchester County Susan Grasso, Our Montessori School, Yorktown – 1st-6th grade – 38 students 41.16°N 74.03°W

Location: Waterfront park in Westchester County Park

Area: Mainly used for boating, fishing and picnics. It had 2 boat launch ramps and was

very rocky. Lots of oyster shells & vegetation

Surrounding Land Use: 70% urban/residential, 15% forested, 5% Beach, 10% other

Sampling Site: shoreline is rocky, beach covered in vegetation, banks altered,

Plants in area: 1% poison ivy, 1% poison oak, 40% moss, 1% willow trees, 40% weeds,

other trees 17% Water depth:

River Bottom -muddy, rocky

ITEM	Time	Reading 1	Reading 2	Comments
Physical				
Air Temperature	11:00 am	18°C	11:20 AM	20 °C
	11:40 AM	24 °C	12:50 PM	26°C
	1:50 PM	20 °C		
Wind Speed	Beaufort fluctuated between #1 and #3	1-5 km/hr & 13-19 km/hr		SW until afternoon then South
Cloud Cover	Partly cloudy			
Weather today	Calm in AM	Cloudy and windy in PM	Wind shifted the current & the water was a little choppy	Tide was coming in.
Weather last 3 days	Little sunny, l	ittle rainy and a		
Water	Calm in AM	Choppy in PM		
Water		15 C		
Temperature	10:55 AM	65 F	6 ft. depth	
AM sunny warm and still	11:35 am	20 C 70 F	6 ft. depth	
PM breezy, cloudy, cooler w/ rippling waves	12:00 PM	20 C 70 F	6 ft. depth	
Turbidity				
secchi	10:50 AM	51 cm 56 cm 53.5	Murky, smelly, pretty turbid	Avg 53.5 cm
	11:23 AM	63.5 cm 61	Dark, smelly brown water	Avg. 61.5cm

	11.22 AM	62.5 am	Dorle am aller	Avv. (1.5.m.
	11:23 AM	63.5 cm	Dark, smelly	Avg. 61.5cm
		61	brown water	
		60 66 cm	Maralery bearing	
		59	Murky, brown, can't see	
	11:51 AM	66		Ava 62.5 am
	11.31 AM	00	bottom Water turbid	Avg. 63.5cm
			Water turbid, very brown.	
		69 cm	Couldn't see	
		68	bottom even	
	12:55 PM	69	where shallow	Avg. 68.5cm
	12.33 1 101	07	Bottom is	Avg. 00.3cm
			brownish.	
		61 cm	Can't see the	
		59	bottom. Pretty	
	1:30 PM	63	turbid	Avg. 61 cm
Long site tube	10:50 AM	33 cm	tarora	2115. 01 0111
Long site tube	11:23 AM	45 cm		
	11:51 AM	35 cm		
	12:55 PM	35 cm		
	1:30 PM	30 cm		
Chlorophyll	10:17 am	0.4		
	11:40 Am	0.1		
	12:00 noon	0.3		
	1:17 PM	0.3		
	1:30 PM	0.2		
Chemical				
DO				
Drop count	8:30 am	16.67C	6 PPM	60 % sat
	10:30 am	16.67C	6 PPM	60 % sat
	11:30 am	20C	8 PPM	90 % sat
pН	10:50 AM	9*		* # seems very
Colormetric kit	11:24 AM	8.5		high
	12:00 PM	8.0		
	1:00 PM	8.0		
	1:30 PM	8.0		
Salinity				
Titrator strips –		Quantab	248 mg/L	355 ppm total
low range		strip 1.0	chloride	salinity
		so used a hydro		
	readings of 6.0 ppt but there must have bee			
		some error since this reading is not in keeping		
	with the other readings on the river for 10/14.			
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Fish Catch	Number	Species	Length of	Comment
	Caught	-	largest	
Fish Catch 11:00 AM		shrimp	0 0	Caught no fish
	Caught	-	0 0	

	2	crabs		
	1	*Dead blue		*a possible
	1	crab		molt?
1:00 PM	1	Baby		more:
1.00 1 10	1	shrimp		
1:25 PM	2	crabs		
1,23 1 1/1	2	shrimp		
Tides -		Similip		
Measuring down				
from a start point	10:45 am	45 cm		
•	11:27 am	39 cm	rising	
	11:57 am	33 cm	rising	
	1:00 pm	32 cm	rising	
	1:27 pm	29cm	rising	
Currents	CM/60 secs	Cm/Sec	North/South	Knots
			Ebb/Flood/Still	
10:48 am			flood	
11:30 am			Flood	
12:00 PM			Flood	
12:50 AM			Flood	
1:42 AM			Flood	
Core –	Length	Grain Size	Plant Material	Comments
Core #1 – 10:50	18 inches –	Mix fine	Lots of plant	smells like
AM	no layers	and large	material	metal/smells
				bad
Core #2 – 10:50	6 inches	Fine grain	No plant	smells like
AM			material	sulfur/metal
Core #3 – 11:51	12 inches –	Mix of fine	Yes plant	smells like
AM	6 inch top	and large	material	sulfur. First
	and 6 inch	grain		layer was not
	bottom			compacted
				(cracked) –
				(dry). Second layer smooth –
				(wet)
Core #4 12:55	12 inches –	Fine grain	Yes plant	Sulfur smell,
PM	6 inch top		material	greenish color.
	and 6 inch			You can see
	bottom			shells,
				different
				colors make
				up the
				sediment
Core #5 1:30 PM	18 inch – 6	Fine grain	Plant material	smells like
	inch top and			sulfur it is
	12 inch			brown and
	bottom			black, has

Core #5 1:30 PM	18 inch – 6 inch top and 12 inch bottom	Fine grain	Plant material	smells like sulfur it is brown and black, has plants, smells bad
Shipping	11:25 AM	Hughes – grey and red	Southbound	Full
	1:30 PM	Ferryboat	Northbound	empty
Observations	Footprints and LOTS of trash which most of the student sheets			