

**Snapshot Day 10/10/13 Data
(Salt Front RM 69.3)
RIVER MILE 39.5
George's Island County Park, Montrose
Blake Burgess, Pocantico Hills School
50 – 6-8th grade students
Latitude 41°14'N Longitude 73°56'40"W**



Location: Waterfront park in Westchester County Park
Area: Shoreline is rocky with brick pieces, forested, grassy with parking area
Surrounding Land Use: Park picnic area & boat launch – Forested 40%, Beach 10%, Park/Pier 50%
Sampling Site: Beach, Rip Rap and Concrete Bulkhead
Plants in area: none listed
Water depth:
River Bottom – muddy, rocky, sandy
Plants in the area: Birch Trees 7%, Willow trees 5%, Weeds 8%, grass 80%

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:24 AM	13.4°C		
	10:35 AM	13.5		
	12:57 PM	15.7 °C		
	1:07 PM	16.5 °C		
	1:25 PM	16.4 °C		
Wind Speed	10:10 AM	Beaufort #2	4.9 kts	N

	12:37 PM 1:25 PM	Beaufort #1	5.3 mph	NW East
Cloud Cover	10:15 51-75% overcast, by noon >75% - overcast			
Water Surface	Calm			
Weather today	Rain 1:20 PM for about 30 minutes			
Weather recently	Normal to cold temperatures			
Water Temperature	11:00 AM	20°C 24 20	27°C - 78°F 24 - 75°F 22 - 73°F	Average 23°C
<i>6 ft. depth</i>	11:32 AM	24 24 24		
	12:55 PM	21°C		
	1:05 PM	21°C		
	1:10 PM	20°C		
Turbidity	10:30 AM	76.3 cm 71 70.5		Average 72.9 cm
	10:31 AM	81.4 cm 80 79.8		Average 80.4 cm
	12:47 PM	60.2 cm 61.5 79.2		Average 79.2 cm
	1:30 PM	64.9 cm 77.2 75.8		Average 73
Chlorophyll	10:30 AM	1.0-2.0	Average to 1.5	
Chemical				
DO (drop count kit)	10:00 AM	22°C	7.0 mg/L 7.0	65% 65%
	12:20 PM	22°C	8.0 mg/L	92% saturated
pH indicator solution	10:35- 10:41 AM	8.0 8.5 8.0		8.2 average
	11:15 AM	7.8 7.8 7.8		7.8 Average
	11:40 AM	8.0		
	12:50 PM	8 8 7.5		7.5 average
	1:00 PM	6.5		6.25 average

		6.0		
	1:35	6.5 8 8		7.5 average
Phosphate				
Nitrate				
Alkalinity				
Salinity - <i>Quantab</i>	No time	1.9 on strip		
<i>Refractometer</i>	No time	1 1 1 1		
<i>Fish Catch</i>	<i>Number Caught</i>	<i>Species</i>	<i>Size</i>	
	1	Striped Bass		
	1	Banded Killifish		
	1	Hog choker	<i>Palm sized ~ 4 inch</i>	
	2	At. Silversides	<i>4 inch</i>	
<i>Total Catch</i>	5	<i>Diversity</i>	4	
<i>Macros</i>	3	Sand crab	<i>2 inch</i>	
<i>Tides</i>	10:37 AM	3 cm		
	10:49 AM	5 cm	Rising	
	11:19 AM	10 cm	Rising	
	11:22 AM	12.5 cm	Rising	
	12:34 PM	15 cm	Rising	
	12:49 PM	17 cm	Rising	
	1:00 PM	16 cm	Rising	
	1:23 PM	27 cm	Rising	
	1:37 PM	31 cm	Rising	
	1:39 PM	38 cm	Rising	
	1:48 PM	42 cm	Rising	
<i>Currents</i>	11:15 AM	48 cm/30 secs	~1.5 cm/sec	
	12:43 PM	51 cm/30 sec	~2 cm/sec	
	12:48 PM	50 cm/30 sec	~ 2cm/Sec	
	12:50 PM	39 cm/40 sec	~ 1cm/Sec	
	1:01 PM	41 cm/30 sec	~1.3 cm/sec	
?would have expected flood with rising tide?	1:25 PM	58 cm/30 sec	~ 2 cm/sec	Ebb ?
	1:32 PM	57 cm/30 sec	~ 2cm/sec	Ebb ?
	1:39 PM	110 cm/30 sec	~3.5 cm/sec	Ebb ?
<i>Core</i>	<i>Description</i>	<i>Abundant</i>	<i>Common</i>	<i>Rare</i>
9:42 AM		Sand	Brick	Clay

10:40 AM	H2S smell Oil 5-6 cm	Mud	Clay Sand Gravel Pebbles	Slag
11:19 AM	5 cm	Sand Gravel	Pebbles	Leaves Brick
11:30	5 cm	Mud Sand Gravel Slag	Pebbles	Shells Brick
1:15 PM	10 cm	Mud Sand	Slag	Clay Gravel Pebbles Shell Macros Brick Coal
No time listed		Brick	Mud Sand Gravel Pebbles	Shells
Traffic	10:21 AM	Named "Jared"		
	10:22 AM	Blue & White	Light	Southbound
	1:02 PM	White	Light	Southbound
Other Items	Shells and lots of rocks and flecks of bricks Lots of shells and shell pieces Birds & Squirrel			
Student Observation	"Maybe the fish might not go here because the fish might be cold and not go in the net."			