

**Snapshot Day 10/20/15 Data**  
**RIVER MILE 39.5**  
**George's Island County Park, Montrose**  
**Alethea Lynch, Fox Meadow Elementary**  
**80 – 3<sup>rd</sup> grade students, 10 adults**  
**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 – Park 70%,  
Industrial/Commercial 30%

**Sampling Site:** Beach, Rip Rap and Concrete Bulkhead

**Plants in area:** none listed

**Water depth:**

**River Bottom –** muddy

<i>ITEM</i>	<i>Time</i>		<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	<i>Reading 1 °F</i>	<i>Reading 1 °C</i>	<i>Reading 2 °F</i>	<i>Reading 2 °C</i>
10:20 AM	68	21	66	18
10:40 AM	70	23	68	20
11:00 AM	70	25	69	22
11:20 AM	68	20	69	18
12:28 PM	70	23	71	22
12:52 PM	71	24	74	23
1:09 PM	71	24	74	25
Wind Speed	Time	Beaufort #	Anenometer	Direction
	10:20 AM	1	0.9 MPH	SW
	10:40 AM	1/2	0 MPH	S
	11:07 AM	2	2.1 MPH	S
	11:20 AM	2	5 MPH	SW
	11:40 AM	2	4 MPH	S
	12:00 PM	2	1.8 MPH	SE
	12:55 PM	2	3.2 MPH	SE
	1:09 PM	3	7 MPH	SE
Cloud Cover	0-25% all day - cirrus			
Water Surface	NR			
Weather today	No rain			
Weather recently	Cold temps.			
<i>Water Temperature</i>	NR	20°C		
		19		
<i>Turbidity - Time</i>	Reading 1	Reading 2	Reading 3	Average cm
<i>Group 1-10:30AM</i>	37	37	37	37 cm
<i>Group 2-10:49AM</i>	35	35	35	35 cm
<i>Group 3-11:17AM</i>	33	33.5	33.5	33.3 cm

<i>Group 4-11:33AM</i>	27.5	27	33	29.2 cm
<i>Group 5-11:56AM</i>	27	26	26	26.3 cm
<i>Group 6-12:38PM</i>	47	46	NR	46.5 cm
<i>Group 7- 1:22PM</i>	54	54	54	54 cm
<b>Chemical</b>				
DO (drop count kit)	Time	Temp °C	ppm	% saturated
<i>Group 1</i>	NR	20°C	13	oversaturated
<i>Group 2</i>	NR		17	oversaturated
<i>Group 3</i>	NR		12	oversaturated
<i>Group 4</i>	NR		9	100%
<i>Group 5</i>	NR		11	oversaturated
<i>Group 6</i>	NR	19°C	9	95%
<i>Group 7</i>	NR		11	oversaturated
<i>Group 8</i>	NR		11	oversaturated
pH – No times listed - <i>Group 1</i>	7.5	8	8	Average 7.8
<i>Group 2</i>	8	7.5	8	Average 7.8
<i>Group 3</i>	8	7.5	7.5	Average 7.6
<i>Group 4</i>	7.5	7.0	7.5	Average 7.33
<i>Group 5</i>	8	8	8	Average 8
<i>Group 6</i>	8	8	8	Average 8
<i>Group 7</i>	8	7.8	8	Average 7.9
<i>Group 8</i>	7.5	8	8	Average 7.8
Salinity -	NR			
<b>Fish Catch</b>	<b>Number Caught</b>	<b>Species</b>	<b>Size</b>	
	4	Striped Bass		
	3	Banded Killifish		
	13	White Perch		
	17	Atl. Silversides		
	3	American Eel		
<b>Total Catch</b>	<b>40</b>	<b>Diversity</b>	<b>5</b>	
<b>Macros</b>	23	Blue Crab		
	26	Shrimp		
<b>Total Catch</b>	<b>49</b>	<b>Diversity</b>	<b>2</b>	
<b>Tides – set stick - Start time</b>	<b>Height inch</b>	<b>End time</b>	<b>Height inches</b>	<b>Rise/Fall/ Unchanged</b>
10:19 AM	26	10:30	25.5	fall
10:41 AM	27	11:00	27	Unchanged
11:00 AM	26.5			Falling
11:26 AM	26			falling
11:47 AM	24			falling
12:28 PM	18	12:40 PM	17	falling

12:52 AM	19			rising
<b><i>Currents</i></b>	10:20 AM	ebb		
	10:40	Ebb		
	11:00 AM	Ebb		
	11:20 AM		Flood	
	12:40 AM		Flood	
<b><i>Traffic Commercial</i></b>	10:00 AM	Barge named Foxy the Fox	Green & Black	Northbound Full
	11:17 AM	Large Barge	White & Green	Northbound
	11:26 AM	Tugboat	White & Black	Northbound
	12:40 PM	Barge with tug	Red	Southbound - Empty
<b><i>Traffic Recreational</i></b>	11:25 AM	Motorboat/Gas	White	Northbound
	11:28 AM	Motorboat/Gas	White	Northbound
	1:25 PM	Motorboat/Gas	White	Northbound
<b><i>Other Items</i></b>	Three trains			
<b><i>Observed</i></b>	18 crows, sparrow, heron, geese, 4 gull, 1 eagle, 1 blackbird			