

**Snapshot Day 10/20/16 Data**  
**RIVER MILE 40**  
**George's Island County Park, Montrose**  
**Alethea Lynch, Fox Meadow Elementary**  
**80 – 3<sup>rd</sup> grade students, 20 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

\*The kit we used for DO was a Lamotte Estuary kit. I am not sure what happened there- it was very low compared to last year. We did use a plastic hydrometer- we must have read the wrong side- sorry!

<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>
10:37 AM	63	17	63	17
10:56 AM	63	17	63	17
11:08 AM	63	17	63	17
11:32 AM	63	17	63	17
11:48 AM	64	18	64	18
12:30 AM	66	19	66	19
12:53 AM	68	20	68	20
1:18 AM	68	20	68	20
10:56 AM	Time	Beaufort #	Anemometer	Direction
10:37 AM	10:20 AM	1		N
10:56 AM	10:40 AM	1/2		N
11:08 AM	11:07 AM	2		N
11:32 AM	11:20 AM	2		N
11:48 AM	11:40 AM	2		N
12:30 AM	12:00 PM	2		S
12:53 AM	12:55 PM	2		S
1:18 AM	1:09 PM	3		S
Cloud Cover	90-100% all day - Stratus			
Weather Today	No rain			
Weather Last 3 Days	Warm and dry temps.			
<i>Turbidity – Secchi Disk</i>	Reading 1	Reading 2	Reading 3	Average cm

<i>10:35 AM</i>	183 cm			
<i>10:45 AM</i>	178 cm			
<i>11:05 AM</i>	180 cm			
<i>11:50 AM</i>	198 cm			
<i>12:58 PM</i>	157 cm			
<i>1:25 PM</i>	219 cm			
<i>1:30 PM</i>	225 cm			
<b>Chemical</b>				
DO (drop count kit)	Time	Temp °C	ppm	% saturated
<i>Group 1</i>	10:35	20°C	2	18%
<i>Group 2</i>	11:00		2	
<i>Group 3</i>	11:11		1	
<i>Group 4</i>	11:20		2	
<i>Group 5</i>	11:47		2	
<i>Group 6</i>	12:30		2	
<i>Group 7</i>	12:50		2	Average 2ppm
pH – <i>Group 1</i>	10:35	20°C	8	
<i>Group 2</i>	11:00		7.5	
<i>Group 3</i>	11:11		7.5	
<i>Group 4</i>	11:20		8	
<i>Group 5</i>	11:47		7.5	
<i>Group 6</i>	12:30		7.5	
<i>Group 7</i>	12:50		8	Average 7.7
Salinity - <i>Group 1</i>	10:35	20°C	1.008 ppt	11.4
<i>Group 2</i>	11:00		1.008	11.4
<i>Group 3</i>	11:11		1.006	8.8
<i>Group 4</i>	11:20		1.005	7.4
<i>Group 5</i>	11:47		1.006	8.8
<i>Group 6</i>	12:30		1.008	11.4
<i>Group 7</i>	12:50		1.008	10.1
		<i>Seems high</i>	<i>Hydrometer</i>	<i>10 ppt average</i>
<b>Fish Catch</b> <i>12 hauls</i>	<b>Number Caught</b>	<b>Species</b>	<b>Size</b>	
<b>Fish</b>	3	American Eel	<b>DIVERSITY</b>	<b>5</b>
	2	Atlantic Silverside	<b>TOTAL CATCH</b>	<b>19</b>
	7	Northern Pipefish		
	1	Striped Bass		
	6	Atlantic Menhaden *	*Saw several huge schools but they were too fast to net	
<b>Macros</b>	23	Blue Crab	<b>DIVERSITY</b>	<b>2</b>
	4	Shrimp	<b>TOTAL CATCH</b>	<b>27</b>

<b><i>Tides –</i></b>				<b><i>Rise/Fall/ Unchanged</i></b>
10:37AM	Rising			
10:AM	Rising			
11:00 AM	Rising			
11:26 AM	Rising			
11:47 AM	Rising			
12:28 PM	Rising			
12:52 AM	Rising			
<b><i>Currents</i></b>	10:37 AM	Ebb		
	10:56 AM	Ebb		
	11:19AM		Flood	
	11:35 AM		Flood	
	11:57 AM		Flood	
	12:42 PM		Flood	
	12:53		Flood	
	1:24 PM		Flood	
<b><i>Traffic Commercial</i></b>	1:00 PM	BBC Charburg	Blue/ Red & White	Northbound Empty
<b><i>Traffic Recreational</i></b>	10:35 AM	Sailboat/ Wind	White	Southbound
	10:53 AM	Motorboat/Gas	White	Southbound
	11:00AM	Motorboat/Gas	White	Northbound
	11:00AM	Motorboat/Gas	White	Northbound
	11:03 AM	Motorboat/Gas	White	Southbound
	11:23 AM	Sailboat/ Wind	White	Northbound
	11:34 AM	Motorboat/Gas	White	Southbound
	11:40 AM	Motorboat/Gas	White	Northbound
	11:54 AM	Motorboat/Gas	White	Southbound
	11:55 AM	Motorboat/Gas	White	Northbound
	12:02PM	Motorboat/Gas	White	Southbound
	12:04 PM	Motorboat/Gas	White	Southbound
	12:34 PM	Sailboat/ Wind	White	Southbound
	12:34 PM	Motorboat/Gas	White	Southbound
	1:15 PM	Motorboat/Gas	White	Northbound
	1:24 PM	Motorboat/Gas	White	Northbound
<b><i>Other Items</i></b>	Three trains			
<b><i>Observed</i></b>	5 crows, 5 egrets, 12 geese, 2 red-billed gull, 1 eagle, 1 wren			