

**Snapshot Day 10/12/17 Data**  
**(Salt Front ~ RM 65)**  
**RIVER MILE 40**  
**George's Island County Park, Montrose**  
**Alethea Lynch, Fox Meadow Elementary**  
**80 – 3<sup>rd</sup> grade students, 25 adults**  
**Assistance from Pleasantville Science Research Class**  
**Latitude 41°14'N Longitude 73°56'40"W**

**Location:** Waterfront park in Westchester County Park

**Area:** Shoreline is sandy, rocky with brick pieces, bank altered, bulkhead with wooden timbers, boat launch

**Surrounding Land Use: Rank order - Mainly** Park picnic area & boat launch, **Next** Forested, **Last** parking lot

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

**Plants in area:** grass covers > than ½ of site – low cut, deciduous trees cover ¼ of site include sugar maples, black locust, willows, hophorn beam, Common reed (Phragmites) covers <1/4 site

**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>
	NR			
10:56 AM	Time	Beaufort #	Anemometer	Direction
	NR			
Cloud Cover	NR			
Weather Today	NR			
Weather Last 3 Days	NR			
<i>Turbidity – Secchi Disk</i>	Time	Reading 1	Reading 2	Average cm
	<i>10:53 AM</i>	71 cm	74	72.5 cm
	<i>11:18 AM</i>	83	83	83
	<i>11:40 AM</i>	84	80	82
	<i>12:00 PM</i>	65	70	67.5
	<i>12:15 PM</i>	82	NR	82
	<i>12:49 PM</i>	80	83	81.5
	<i>1:05 PM</i>	79	NR	79
	<i>1:20 PM</i>	85	71	78
<i>Chemical</i>				
DO (LaMotte estuary wide kit)	Time	Temp °C	ppm	% saturated

<i>Group 1</i>	10:04 AM	14.9°C	2	21%
<i>Group 2</i>	10:59	17.5	5	425
<i>Group 3</i>	11:13	19	Discarded - err	
<i>Group 4</i>	11:34	20	Too much	
<i>Group 5</i>	12:03 PM	19	7	44%
<i>Group 6</i>	12:48 PM	20	NR	
<i>Group 7</i>	12:57 PM	19	10	84%
<i>Group 8</i>	1:23 PM		8	88%
pH –	<i>Group 1</i>	10:01 AM	6.5	
	<i>Group 2</i>	10:48	6.5	
	<i>Group 3</i>	11:05	7	
	<i>Group 4</i>	11:22	5	
	<i>Group 5</i>	11:57	8	
	<i>Group 6</i>	12:38 PM	8	
	<i>Group 7</i>	12:51	8	
	<i>Group 8</i>	1:17 PM	8	
Salinity -	<i>Group 1</i>	10:02 AM	6.5 ppt	<i>Hydrometer</i>
	<i>Group 2</i>	10:53	10.0 ppt	
	<i>Group 3</i>	11:10	6.0 ppt	
	<i>Group 4</i>	11:22	10.0 ppt	
	<i>Group 5</i>	11:50	4 ppt	
	<i>Group 6</i>	12:49 PM	7 ppt	
	<i>Group 7</i>	12:57 PM	3 ppt	
	<i>Group 8</i>	1:30 PM	7 ppt	
Nitrates	1:08 PM	2ppm		
<b><i>Fish Catch</i></b> <i>12 hauls</i>	<b><i>Number</i></b> <b><i>Caught</i></b>	<b><i>Species</i></b>	<b><i>Size</i></b>	
<b>Fish</b>	28	Atlantic Silverside		<b>DIV 4</b> <b>TOTALS 36</b>
	1	White Perch	8 cm	
	1	Striped Bass	11 cm	
	6	Pipefish	10 cm	
<b>Macros</b>	7	Blue Crab	7 cm carapace	
	11	Mud crab	3 cm carapace	
	11	Scud		<b>MACROS</b>
	1	Leidy's Comb Jelly	5 cm	<b>DIV 4</b> <b>TOTAL 30</b>
<b><i>Tides –</i></b>	<b><i>Time</i></b>	<b><i>Water Height</i></b>	<b><i>Rise/Fall/ Unchanged</i></b>	
Measuring down from dock	9:15 AM 10:50 AM 11:15 AM 11:30 AM 11:40 AM	33 37 37 36 35	Start Falling Slack Rising Rising	

	11:50 AM 12:00 PM 12:05 PM 12:10 PM 12:50 PM 1:00 PM 1:05 PM 1:10 PM 1:20 PM	33 32 30 28 22 20 18 15 14 13	Rising Rising Rising Rising Rising Rising Rising Rising Rising Rising	
<b><i>Currents</i></b>	NR			
<b><i>Traffic Commercial</i></b>	10:55 AM 11:51 Am 1:05 PM	Barge carrying gravel BMLP Barge carrying gravel Barge	White & Red White, Blue, Red White/Black	South Full South Full North Full
<b><i>Traffic Recreational</i></b>	11:06 AM 11:29 AM 11:37 AM 11:50 AM 12:11 PM 12:14 PM 12:43 PM 12:43 PM 1:05 PM 1:10 PM 1:11 PM 1:16 PM 1:17 PM	Speedboat -gas Sailboat - wind Speedboat-gas Speedboat-gas Speedboat-gas Speedboat-gas Speedboat-gas Sailboat - wind Kayak- human Sailboat - wind Speedboat- gas Sailboat - wind Speedboat - gas	White White White White White White White & Blue White Brown White White White White	North South South South South North South North South North South South South
<b><i>Other Items</i></b>	4 people picnicking	3 people walking		
<b><i>Observed</i></b>	1 chipmonk, 4 crows, 1 heron, 4 mallard ducks, 4 geese, 6 gulls, 2 turkey vulture, 1 bald eagle, 1 diving duck			