

Snapshot Day 10/12/06 Data
(Salt Front RM 52.5)
RIVER MILE 39.5
George's Island County Park, Montrose
Latitude 41°14'N Longitude 73°57'W
Alethea Lynch, Heathcote Elementary School
Doris Olsen, Teatown Volunteer
24 - 4th grade students

Location: Waterfront park in Westchester County Park

Area: Ground was covered with oyster shells. In two places where the shore had eroded kids noted that the shells went down about 2 feet into the dirt. Shoreline is rocky and brick pieces

Surrounding Land Use: Park area – forested, grassy, used for picnics, boating and fishing. Students were the only people in the park

Sampling Site: covered with vegetation; some riprap and bulkheaded areas

Plants in area: Land area – grasses 95%; red & white oak trees 2%; shrubs with red berries & shrubs with blue berries 1%; poison ivy 1%

INTRODUCED SPECIES – myrtle, lily, yucca, and a willow tree = total 1%

Water depth: 3 feet in sampling area

River Bottom – rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:53	13.9 C° 57 F°		°C °F
Wind Speed	10:AM- 12:45	11-16 knots	(flag straight out on chart)	SW all day
Cloud Cover	10:19 – 10:52 overcast; 11:35 mostly cloudy; 12:34 overcast			
Weather today	See above – water choppy			
Weather recently	rain			
<i>Water Temperature</i>	10:35 AM	18°C	19°C	20°C
<i>Taken in sunny area – 3 ft. deep</i>	11:05 AM	18°C	19°C	20°C
	11:45 AM	18°C	19°C	20°C
<i>Turbidity</i>	10:30 AM	60 cm	58 cm	58 cm
	11:00 AM	69 cm	50 cm	60 cm
	11:50 AM	65 cm	80 cm	72 cm
<i>Sight tube</i>	12:30 PM	94 cm	95 cm	96 cm
<i>Chlorophyll</i>	10:30 AM	1.0		
<i>Chemical</i>				
DO (not meter or drop)	10:47 AM	19°C	4.0 mg/L	40% saturated

count kit)				
Collected in direct sun – end of boat dock	11:05 AM	19°C	8.0 mg/L	85% saturated
	11:42 AM	19°C	8.0 mg/L	85% saturated
	12:56 AM	19°C	8.0 mg/L	85% saturated
pH	10:42	8		
(color match test kit)	11:10	8		
	11:35	8		
	11:43	8		
Phosphate				
Nitrate				
Alkalinity				
Salinity • method is difficult in brackish to fresh sections	11:10 AM	16ppt	16ppt	hydrometer
<i>Fish Catch</i>	<i>Number Caught</i>	<i>Species</i>	<i>Size</i>	
	2	Blue crab	1 inch	
	1	Shrimp	1 ½ inch	
<i>Macroinvertebrate</i>	1	Mayfly nymph		
	1	Caddisfly		
	Many	scuds		
	1	stonefly		
<i>Tides</i>	11:16 AM	0 height		
	11:29 AM	7.6 mc	rising	
	12:39 AM	35 cm	rising	
<i>Currents</i>	10:30 AM		Still	
	11:16 AM		still	
6 ft/min (182.88 cm/60 secs)	11:45 AM	3.048 cm/sec	0.06 knots	flood
• Current was measured at the edge of a small cove (shoreline extended out on either side) so the currents could have been eddy currents.				
<i>Traffic</i>	10:25 AM	Huge white boat -cruise ship/red band on smokestack		Southbound
	10:33 AM	Commander – white		Northbound
	11:20 AM	Green tugboat pushing a barge	Loaded	Northbound
<i>Other Items</i>	Smoke towers across the river; Litter on shore			

	There were a large number of Monarch butterflies throughout the day
	Animals: cormorant; geese; mallard ducks (male & female); seagulls; squirrels; chipmunk; monarch butterflies