



Powell, Daniel <daniel.powell@vdh.virginia.gov>

Shoreline Survey # 002 "Monroe Bay: Monroe and Mattox Creeks" - Westmoreland County

1 message

Powell, Daniel <daniel.powell@vdh.virginia.gov>

Fri, Dec 7, 2018 at 3:08 PM

Bcc: Will Leland <will@littleneck.com>, chad@ballardfish.com, "Knapp, Allen" <allen.knapp@vdh.virginia.gov>, Jennifer Palmore <jennifer.palmore@deq.virginia.gov>, "VDH-DSS, White Stone Field Office" <shellfish_whitestone@vdh.virginia.gov>, "Bateman, John" <jbateman@nnpdc17.state.va.us>, cpc1932@verizon.net, V'lent Lassiter <vlent.lassiter@deq.virginia.gov>, "Fridley, David" <david.fridley@vdh.virginia.gov>, "Herman, Julie" <herman@vims.edu>, "Kazio, Jeremy" <jeremy.kazio@deq.virginia.gov>, nrisavi@westmoreland-county.org, "Smith, Preston" <preston.smith@vdh.virginia.gov>, "Connell, Bob" <robert.connell@fda.hhs.gov>, Curtis Linderman <curtis.linderman@deq.virginia.gov>, shellfish_central@vdh.virginia.gov, "Mauskopf, Bob" <bob.mauskopf@vdh.virginia.gov>, Patricia Duttry <patricia.duttry@vdh.virginia.gov>, Elizabeth Anderson <elizabeth.anderson@vdh.virginia.gov>, tim@clamandoyster.com, "Schlegel, Anne" <anne.schlegel@deq.virginia.gov>, timr@clamandoyster.com, "Erskine, A.J." <ajerskine@bevansoyster.com>, William Nolley <tnolley@oysterva.com>, Amy Walker <amy.walker@dcr.virginia.gov>, "Gregory, Lance" <lance.gregory@vdh.virginia.gov>, "Huskey, Kim" <kim@littleneck.com>, Mylam Ly <mylam.ly@vdh.virginia.gov>, Marian Hunter <marian.hunter@vdh.virginia.gov>

The updated shoreline survey for Growing Area # 002 "Monroe Bay: Monroe and Mattox Creeks" found in Westmoreland County is now available at...

<http://www.vdh.virginia.gov/content/uploads/sites/20/2016/05/survey002.pdf>

Daniel Powell, GISP
Classification Assistant/GIS Analyst

VDH | Division of Shellfish Sanitation | 109 Governor St | Richmond, VA 23219
804.864.7482 | daniel.powell@vdh.virginia.gov | www.vdh.virginia.gov/shellfish

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**COMMONWEALTH of VIRGINIA
DEPARTMENT OF HEALTH
DIVISION OF SHELLFISH SANITATION**

*109 Governor Street, 6th Floor
P.O. Box 2448
Richmond, Virginia 23218*

*Ph: 804-864-7487
Fax: 804-864-7481*

**MONROE BAY AND MATTOX CREEK
Growing Area # 002
Westmoreland County
Shoreline Sanitary Survey**

Date: 7 December 2018

Survey Period: July 16 – November 5, 2018

Total Number of Near Shore Samples Collected and Properties Surveyed: 370

Surveyed By: R.M. Thomas, W.A. McCarty III, & W.I. Barrack III

SECTION A: GENERAL

This survey area extends from Reference Point 2 at Mimosa Avenue extended near Bluff Point in the Town of Colonial beach to Reference Point 3 at Church Point on the Potomac River, including the Potomac River shoreline between these two points, Monroe Bay (Monroe Creek) and Mattox creek and all of their tributaries.

The topography of the area varies in elevations from 10' or less along the shoreline to a maximum of 76' within the survey boundary. The economy is based on local service businesses, manufacturing, and retail trade. Both Monroe Bay and Mattox Creek have large marinas that serve recreational and small commercial vessels. Several communities in Westmoreland County and the majority of the Town of Colonial Beach are served by a central sewer system.

Meteorological data indicated that the area received a total rainfall of 31.12" for the survey period. A monthly breakdown is as follows:

July 16-31 9.40" August 7.50" September 6.30" October 6.42" November 1-5 1.50"

At the beginning of the survey, inspectors reviewed the available literature from prior reports, public works and online resources to characterize land use, drainage patterns, and established nearshore seawater stations. Properties identified in the previous survey as having sanitary deficiencies or other environmental significance were revisited to evaluate their current status. All roadways and navigable shoreline within the survey boundary were visually inspected to identify potential pollution sources requiring further investigation.

Nearshore seawater stations were established to survey the full extent of waters beyond routine classification stations. Stations were created in closer proximity to the shoreline and farther upstream than routine stations and are intended to evaluate drainage entry points of

potential pollution sources. Station data were analyzed to compare relative concentrations of fecal indicator bacteria within the waterway to identify potential onshore sources of contamination. Areas with elevated concentrations of fecal indicator bacteria were surveyed onshore using a property by property approach. Surveyors interviewed occupants and examined properties for evidence of pollution sources within the immediate watershed.

Hydrographic data and Ebb current windows are shown in the table below. Maps of the enterococcus sampling are shown at the conclusion of this report.

Rainfall in Inches						
Sample dates	Run #	High Tide	Ebb Current	Previous 24 hours	Previous 48 hours	Previous 72 hours
7/16/18	1	6:08 am	8:58-4:18	0.00	0.00	0.00
7/17/18	1	7:02 am	9:46-5:00	0.28	0.28	0.28
8/1/18	1	7:02 am	9:40-5:00	0.64	1.57	1.98
8/2/18	1	7:44 am	10:16-5:30	0.12	0.76	1.69
8/3/18	1	8:38 am	10:52-6:06	0.38	0.50	1.14
8/14/18	1	5:56 am	8:34-3:42	0.02	0.22	3.55
8/15/18	1	6:44 am	9:22-4:24	0.16	0.18	0.38
8/28/18	2	5:14 am	7:58-3:00	0.00	0.00	0.00
8/30/18	2	6:38 am	9:10-4:00	0.00	0.00	0.00
9/11/18	2	4:50 am	7:28-2:18	0.22	0.26	1.20
9/12/18	2	5:38 am	8:10-3:00	0.00	0.22	0.26
10/17/18	2	10:50 am	1:28-7:30	0.13	0.15	0.31
10/25/18	2	4:32 am	6:52-1:12	0.00	0.00	0.00
11/5/18	2	12:44 am	3:10-9:54	1.31	1.31	1.50

Copies of Bacteriological and Shellfish Closure data are available at the area office for review. This report lists only those properties that have a sanitary deficiency or other environmental significance. "DIRECT" indicates that the significant activity or deficiency has a direct impact on shellfish waters. Data in this report are also made available to local health departments and other agencies to address items that may be out of compliance with their regulatory programs. Copies of VPDES Permits and inspections are available at the Department of Environmental Quality, Tidewater Regional Office (DEQ/TRO).

Copies of the current condemnation notices and maps are available via the Internet at www.vdh.virginia.gov/shellfish/.

SECTION B: SEWAGE POLLUTION SOURCES

OBJECT ID	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Address	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	DSS Staff	Date of Correction	Correction Notes
81	2	5	11/29/18	SEWAGE TREATMENT FACILITY, direct	38.1829	-77.0106	454 Oak Grove Road, Colonial Beach, VA 22520	Previously Public sewage treatment facility, currently hooked up to the Town of Colonial Beach Municipal sewerage system. No VPDES discharge permit, use Colonial Beach permit.	NA	Public	Y	Washington District Elementary School	Westmoreland	WB		
93	2	6	11/29/18	SEWAGE TREATMENT FACILITY, direct	38.2518	-76.9711	315 Douglas Avenue, Colonial Beach, VA 22443	Public - Municipal sewerage system. Contact: Jill Tighe. Design flow of 2.0 MGD. Bar screen removed and fine screen installed in 2017. UV disinfection with final discharge of effluent into Monroe Bay. VPDES permit # VA0026409	NA	Public	Y	Quinn Robertson, Town Manager, Town of Colonial Beach	Westmoreland	WB		
1636	2	7	11/29/18	SEWAGE TREATMENT FACILITY, direct	38.2408	-76.9700	1544 Monroe Bay Circle, Colonial Beach, VA 22443	Private use. Residential sandfilter discharge. Residential STF added August 2010	NA	Public	Y		Westmoreland	WB		
4580	2	38	7/17/18	POTENTIAL POLLUTION	38.2449	-76.9766	355 Creek View Lane, Colonial Beach, VA 22443	4" terracotta pipe exiting shoreline without known origin	Conv		N		Westmoreland	WB		

SECTION D: BOATING ACTIVITY

OBJECT ID	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Address	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	Boating Activity Type	Number of Wet Slips	NUM BOATS <26'	NUM BOATS >26'	Evidence of Live-Aboards	DSS Staff
39	2	11	11/29/18	BOATING ACTIVITY	38.2307	-76.9634	1787 Castlewood Drive, Colonial Beach, VA 22443	Commercial Marina. Available on site are seasonal slips/moorings, dry storage spaces, fuel, ramp, electricity, repair, water, restrooms, dump station and sewage holding tank pumpout facilities.	NA	Marine	Y	Colonial Beach Yacht Center	Westmoreland	Marina	120	11	49	N	WB
102	2	13	11/29/18	BOATING ACTIVITY	38.2394	-76.9615	1004 Monroe Bay Avenue, Colonial Beach, VA 22443	Commercial Marina. Available on site are seasonal slips/moorings, electricity, water, solid waste containers, restrooms, and portable dump station pumpout facility.	NA	Marine	Y	Parker's Marina	Westmoreland	Marina	38	7	4	N	WB
101	2	14	11/29/18	BOATING ACTIVITY	38.2408	-76.9628	829 Robin Grove Lane, Colonial Beach, VA 22443	Commercial Marina. Available on site are seasonal slips/moorings, dry storage spaces, electricity, repair, water, solid waste containers, restrooms and portable dump station pumpout facilities.	NA	Marine	Y	The Boathouse Marina	Westmoreland	Marina	48	29	15	N	WB
100	2	15	11/29/18	BOATING ACTIVITY	38.2431	-76.9660	554 Lafayette Street, Colonial Beach, VA 22443	Commercial Marina. Available on site are seasonal slips/moorings, ramp, electricity, water, solid waste containers, restrooms and portable dump station pumpout facilities.	NA	Marine	Y	Winkledoodle Point Marina	Westmoreland	Marina	65	24	18	N	WB
99	2	16	11/29/18	BOATING ACTIVITY	38.2431	-76.9666	551 Lafayette Street, Colonial Beach, VA 22443	Available on site are seasonal slips/moorings, ramp, electricity, water, solid waste containers, restrooms, dump station, and sewage holding tank pumpout facilities.	NA	Marine	Y	Monroe Bay Marina	Westmoreland	Marina	92	24	38	N	WB
97	2	17	11/29/18	BOATING ACTIVITY	38.2477	-76.9658	119 Monroe Bay Avenue, Colonial Beach, VA 22443	Commercial Marina. Available on site are seasonal slips/moorings, fuel, ramp, and solid waste containers.	NA	Marine	Y	Tranquil Marina	Westmoreland	Marina	21	3	4	N	WB
96	2	18	11/29/18	BOATING ACTIVITY	38.2483	-76.9659	101 South Monroe Bay Avenue, Colonial Beach, VA 22443	Available on site are seasonal slips/moorings, electricity, water, solid waste containers and restrooms.	NA	Marine	Y	Nightingale Marina & Motel	Westmoreland	Marina	33	5	3	N	WB
95	2	19	11/29/18	BOATING ACTIVITY	38.2489	-76.9660	11 Monroe Bay Avenue, Colonial Beach, VA 22443	37	NA	Marine	Y	Bayside Marina	Westmoreland	Marina	38	13	14	N	WB
89	2	22	11/29/18	BOATING ACTIVITY	38.2335	-76.9697	End of Avalon Drive, Colonial Beach, VA 22443	Available on site are seasonal slips/moorings, ramp, electricity, water, solid waste containers, 1 port-o-john, and portable marine head dump station.	NA	Marine	Y	Potomac-Westmoreland Shores Civic Corp.	Westmoreland	Marina	45	0	0	N	WB
86	2	24	11/29/18	BOATING ACTIVITY	38.2047	-76.9892	582 Burnt House Point, Colonial Beach, VA 22443	Available on site are seasonal slips/moorings, ramp, solid waste containers, and privies (used as a dump station).	NA	Marine	N	Springfield Incorporated	Westmoreland	Marina	23	4	1	N	WB
3003	2	26	11/29/18	BOATING ACTIVITY	38.2049	-76.9800	277 Harbor View Circle, Colonial Beach, VA 22443	Commercial Marina. Available on site are seasonal slips/moorings, fuel, ramp, electricity, water, solid waste containers, restrooms, dump station and sewage holding tank pumpout facilities.	NA	Marine	Y	Harbor View Marina	Westmoreland	Marina	144	29	49	N	WB

SECTION D: BOATING ACTIVITY

OBJECT ID	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Address	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	Boating Activity Type	Number of Wet Slips	NUM BOATS <26'	NUM BOATS >26'	Evidence of Live-Aboards	DSS Staff
94	2	20	11/29/18	BOATING ACTIVITY	38.2504	-76.9679	110 Lynnhaven Avenue, Colonial Beach, VA 22443	Available on site are seasonal slips/moorings, electricity, water and restrooms.	NA	Marine	Y	Monroe's Landing	Westmoreland	OPWBAM	30	8	4	N	WB
87	2	23	11/29/18	BOATING ACTIVITY	38.2148	-76.9708	400 Sebastian Avenue, Colonial Beach, VA 22443	Available on site are seasonal slips/moorings, electricity, and water.	NA	Marine	N	Potomac Shores Residents Association	Westmoreland	OPWBAM	22	1	1	N	WB
6	2	27	11/29/18	BOATING ACTIVITY	38.2058	-76.9645	91 Gun Club Road, Colonial Beach, VA 22443	Available on site are seasonal slips/moorings, and solid waste containers.	NA	Marine	Y	Berkley Beach	Westmoreland	OPWBAM	10	0	0	N	WB
4	2	28	11/29/18	BOATING ACTIVITY	38.2060	-76.9605	End of Potomac Drive, Colonial Beach, VA 22443	Available on site are seasonal slips/ moorings, wooden ramp, solid waste containers, and 1 port-o-john.	NA	Marine	Y	Ebb Tide Beach	Westmoreland	OPWBAM	40	0	0	N	WB
38	2	12	11/29/18	BOATING ACTIVITY	38.2324	-76.9614	Adjacent to common area on Monroe Bay Drive, Colonial Beach, VA 22443	Available on site is a concrete dual launch ramp and loading/unloading docks on either side. Port-o-john on site.	NA	Marine	Y	Town of Colonial Beach Public Boat Ramp	Westmoreland	Under Surveillance	0	0	0	N	WB
90	2	21	11/29/18	BOATING ACTIVITY	38.2393	-76.9672	1412 Monroe Bay Circle, Colonial Beach, VA 22443	Available on site are transient slips/moorings, ramp, solid waste containers, restrooms and dump station for campers only.	NA	Marine	Y	Monroe Bay Campground	Westmoreland	Under Surveillance	14	0	0	N	WB
15	2	25	11/29/18	BOATING ACTIVITY	38.2031	-76.9822	On Mattox Avenue, Colonial Beach, VA 22443	Available on site is a concrete ramp and a loading/unloading dock.	NA	Marine	Y	Placid Bay Boat Ramp	Westmoreland	Under Surveillance	0	0	0	N	WB

SECTION E: CONTRIBUTES ANIMAL POLLUTION

OBJECTID	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Address	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	DSS Staff
7	2	8	11/29/18	CONTRIBUTES ANIMAL POLLUTION, indirect	38.2026	-76.9701	217 Ebb Tide Road, Colonial Beach, VA 22443	5+ Horses present at the time of the survey. Manure was left on the ground surface.	Conv	Dwelling	Y		Westmoreland	WB
12	2	9	11/29/18	CONTRIBUTES ANIMAL POLLUTION, indirect	38.2010	-76.9714	178 Ebb Tide Road, Colonial Beach, VA 22443	12-15+ cows present at the time of the survey. Manure was left on the ground surface.	Conv	Dwelling	Y		Westmoreland	WB
92	2	10	11/29/18	CONTRIBUTES ANIMAL POLLUTION, indirect	38.2508	-76.9776	228 Creek View, Colonial Beach, VA 22443	5+ horses at the time of the survey. Manure left on ground surface.	Conv	Dwelling	N		Westmoreland	WB

SUMMARY

Growing Area # 002
MONROE BAY AND MATTOX CREEK
7 December 2018

SECTION B: SEWAGE POLLUTION SOURCES

1. SEWAGE TREATMENT FACILITIES

3 – DIRECT – # 5, 6, 7
0 – INDIRECT – None.
3 – B.1. TOTAL

2. ON-SITE SEWAGE DEFICIENCIES – Correction of the deficiencies in this section is the responsibility of the local health department.

0 – CONTRIBUTES POLLUTION, DIRECT – None.
0 – CONTRIBUTES POLLUTION, INDIRECT – None.
0 – CP (Kitchen or Laundry Wastes), DIRECT – None.
0 – CP (Kitchen or Laundry Wastes), INDIRECT – None.
0 – NO FACILITIES, DIRECT – None.
0 – NO FACILITIES, INDIRECT – None.
0 – B.2 TOTAL

3. POTENTIAL POLLUTION – Periodic surveillance of these properties will be maintained to determine any status change.

1 – POTENTIAL POLLUTION – # 38

SECTION C: NON-SEWAGE WASTE SITES

1. INDUSTRIAL WASTE SITES

0 – DIRECT – None.
0 – INDIRECT – None.
0 – C.1. TOTAL

2. SOLID WASTE SITES

0 – DIRECT – None.
4 – INDIRECT – # 1, 2, 3, 4
4 – C.2. TOTAL

3. STORMWATER OUTFALLS

1 – DIRECT – # 161
0 – INDIRECT – None.
1 – E. TOTAL

SECTION D: BOATING ACTIVITY

11 – MARINAS – # 11, 13, 14, 15, 16, 17, 18, 19, 22, 24, 26
5 – OPWBAM – # 20, 21, 23, 27, 28
2 – UNDER SURVEILLANCE – # 12, 25
18 – D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

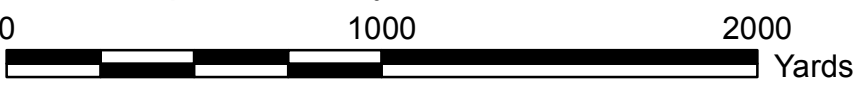
0 – DIRECT – None.
3 – INDIRECT – # 8, 9, 10
3 – E. TOTAL

Virginia Department of Health
Division of Shellfish Sanitation

Monroe Bay: Monroe
and Mattox Creeks
002
Shoreline Sanitary Survey

Westmoreland County

Date: 7 December 2018
Survey By: R.M. Thomas, W.A. McCarty III, & W.I. Barrack III
Number of Near Shore Samples Collected
and Properties Surveyed: 370



Legend

Seawater Sampling Stations (History)

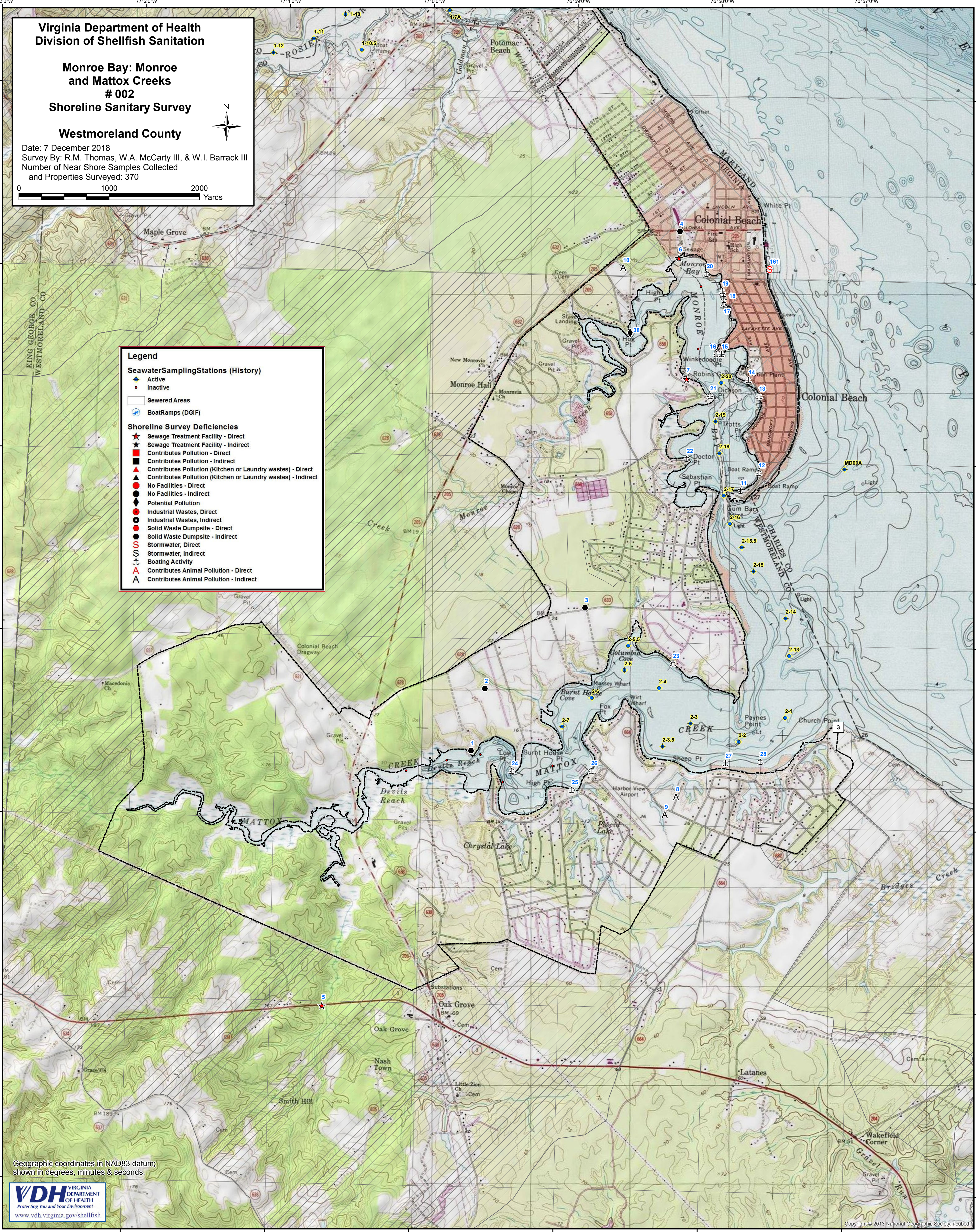
- Active (Blue circle with dot)
- Inactive (Red circle with dot)

Sewered Areas

- Sewered Areas (Blue hatched area)
- Boat Ramps (DGIF) (Blue circle with 'B')

Shoreline Survey Deficiencies

- Sewage Treatment Facility - Direct (Red star)
- Sewage Treatment Facility - Indirect (Black star)
- Contributes Pollution - Direct (Red square)
- Contributes Pollution - Indirect (Black square)
- Contributes Pollution (Kitchen or Laundry wastes) - Direct (Red triangle)
- Contributes Pollution (Kitchen or Laundry wastes) - Indirect (Black triangle)
- No Facilities - Direct (Red circle)
- No Facilities - Indirect (Black circle)
- Potential Pollution (Red diamond)
- Industrial Wastes, Direct (Red circle with 'I')
- Industrial Wastes, Indirect (Black circle with 'I')
- Solid Waste Dumpsite - Direct (Red circle with 'S')
- Solid Waste Dumpsite - Indirect (Black circle with 'S')
- Stormwater, Direct (Red circle with 'S')
- Stormwater, Indirect (Black circle with 'S')
- Boating Activity (Blue circle with 'B')
- Contributes Animal Pollution - Direct (Red circle with 'A')
- Contributes Animal Pollution - Indirect (Black circle with 'A')



Geographic coordinates in NAD83 datum;
shown in degrees, minutes & seconds.



Near Shore Enterococcus Sampling GA # 002 - Monroe Bay: Monroe & Mattox Creeks

* Highest value was 8196 collected on August 1, 2018.

#001
Rosier
Creek



#002
Monroe Bay: Monroe
and Mattox Creeks

Legend

Enterococcus spp. (MPN/100ml)

- 0 - 10
- 11 - 100
- 101 - 1000
- 1001 - 10000
- > 10001

#003
Potomac River: Mattox
Creek to Currioman Bay

7 December 2018