



COMMONWEALTH of VIRGINIA
DEPARTMENT OF HEALTH
DIVISION OF SHELLFISH SANITATION

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RAPPAHANNOCK RIVER: WARES WHARF TO MUD CREEK
Growing Area # 026
Essex and Middlesex Counties
Shoreline Sanitary Survey

Date: 14 August 2017

Survey Period: May 4, 2017- July 7, 2017

Total Number of Properties Surveyed: 101

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

Section A: GENERAL

This survey area extends from Reference Point 27 at Wares Wharf (State Route 611) to Reference Point 28 at Mud Creek (State Route 605). Included in this area is the Rappahannock River shoreline between these two points and Belleview Creek, Tuscarora Creek, Muddy Gut, Mill Swamp, Laytons Branch, and all of their tributaries. The survey boundary, drawn by the Division of Shellfish Sanitation, has been revised. See map for current boundary.

The topography of the area varies from 5' or less along the shoreline to a maximum of 130'± near the western edge of the survey boundary. The economy in Essex County is primarily comprised of health care, retail trade, government agencies, and manufacturing. The Middlesex County economy is similar with government agencies, retail trade, health care, and construction being the top employers. According to the 2016 U.S. Census Bureau report, Essex County population decreased 0.2% from April 1, 2010 – July 1, 2016 to 11,123 individuals. The same report stated that the Middlesex County population declined 1.7%, from April 1, 2010 – July 1, 2016 to 10,778. It is important to note that some of the properties along the shoreline and in various subdivisions are only seasonally occupied.

Since the previous survey in 2009, this area has been subjected to heavy storm damage. In February 2016, an EF-3 tornado with winds up to 140 miles per hour cut a 28 mile path from the Middle Peninsula to the Northern Neck. At times the tornado's path was 400-500 yards wide causing damage to over 30 homes and completely destroying at least 15. According to the State Police, more than 25 people were injured during the event; however, no fatalities were reported. This surge was the largest noted damage to the survey area since Tropical Storm Ernesto devastated the area in September 2006.

During the survey period, meteorological data indicated that 10.37" of precipitation fell. Monthly totals below were recorded by the Division of Shellfish Sanitation in White Stone, Virginia. A monthly breakdown follows:

May 4-31	6.42"	June	3.44"	July 1-7	0.51"
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Investigations were conducted by water in addition to the regularly scheduled random seawater sampling to identify and take samples at storm water outfall locations; to determine the location of straight pipes not observable by land; and to collect water samples at a closer proximity to the shoreline, closer together and farther upstream than regular seawater sampling. The additional water sampling was to identify areas that had unusually high fecal coliform counts to be further investigated from the shore.

Information about Middlesex County can be found on the county's website at: www.co.middlesex.va.us, including information about the Department of Planning and Community Development and adopted ordinances. The Erosion and Sediment Ordinance became effective July 20, 1994 as authorized by the Code of Virginia, Title 10.0, Chapter 5, Article 4 (10.1-560 et seq.). In 2001 an updated version of the 1994 Comprehensive Plan was introduced. A subdivision Ordinance was reprinted with revisions on February 22, 2006 and a Floodplain Ordinance was reprinted on February 20, 2007. The following quote has been copied from the Middlesex county Virginia Floodplain Ordinance:

On-site waste disposal systems shall be located and constructed to avoid impairment to them or contamination from them during flooding by placement outside of designated flood zones. If placement outside of flood zones is not possible, the system shall include the use of top-seamed tanks and/or sealed septic and pump chamber tanks. All tanks subject to floatation shall be adequately anchored to prevent floatation.

In the January 11, 2007 edition of the Southside Sentinel an article written by Tom Chillemi states that Middlesex County has initiated a program requiring private septic systems to be pumped out at least every five years. The Middlesex Board of Supervisors has established this program to comply with the December 12, 2005 Chesapeake Bay Local Assistance Board mandate which applies to systems located in the Chesapeake Bay Preservation District and installed after 1993.

The Essex County Zoning Ordinance Section XV-1.10.B.5 states:

All on-site sewage disposal systems...shall be pumped out at least once every five years." Additional information about Essex County can be found on the county's website at www.essex-va.org.

Copies for Bacteriological, Hydrographic and Shellfish Closure data are available at the area office or the Richmond central office for review. Copies of the current condemnation notices and maps are available via the internet at www.vdh.virginia.gov/shellfish/.

This report lists only those properties that have a sanitary deficiency or may have other environmental significance and can be located online at the above link. "**DIRECT**" indicates that the significant activity or deficiency may have a direct impact on shellfish waters. Data in the report are also made available to local health departments and other agencies to address items that may be of concern with their regulatory programs.

SECTION C: NONSEWAGE WASTE SITES

	GA #	Field #	Deficiency or Pollution Type	Latitude	Longitude	Address	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	DSS Staff
77	26	59	STORMWATER, direct	37.840804	-76.766150	End of Muddy Gut Road, Dunnsville, VA 22454	Concrete drainage culvert.	NA	NA	N	Enterococci sample of zero taken on 6/13/17.	Essex	WB
83	26	65	STORMWATER, direct	37.852396	-76.769571	Marine Drive, Dunnsville, VA 22454	Black 12" corrugated pipe exiting under pier.	NA	NA	N	Enterococci sample of ten taken on 6/13/17.	Essex	WB

	GA #	Field #	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
4	26	9	BOATING ACTIVITY	37.811473	-76.743982	369 Catchpenny Lane, Center Cross, VA 22437	Seasonal slips/moorings, in-out ramp, electricity, water, solid waste containers restroom/bathhouse, dump station and pump out facility. One 10,000 gallon fuel tank and one 2000 gallon diesel fuel tank.	Conv	Marine	Y	Garett's Marina	Essex	Marina	15	1	3	N	WB
17	26	2	BOATING ACTIVITY	37.754968	-76.674201	130 Scout Trail, Jamaica, VA 23079	In-out ramp, electricity, water and bathhouses provided.	Conv	Marine	Y	Bayport Scout Reservation	Middlesex	OPWBAM	15	0	0	N	WB
16	26	3	BOATING ACTIVITY	37.768581	-76.680144	2977 Butylo Road, Jamaica, VA 23079	Water and electricity provided.	NA	Marine	N	Rental property titled "I Land Getaway".	Middlesex	OPWBAM	10	1	0	N	WB
14	26	5	BOATING ACTIVITY	37.790538	-76.725907	1646 Mark Haven Beach Road, Center Cross, VA 22437	In-out ramp, electricity, water, restrooms in the clubhouse. Seasonal slips/mooring available.	Conv	Marine	N	Rappahannock River Run Bluffs	Essex	OPWBAM	24	0	0	N	WB
11	26	8	BOATING ACTIVITY	37.798891	-76.734184	End of River Oaks Road, Center Cross, VA 22437	Seasonal slips/mooring available, community in-out ramp. Services provided are electricity and a small pavilion.	NA	Marine	N	River Oaks Civic Association, Inc.	Essex	OPWBAM	3	0	0	N	WB
3	26	10	BOATING ACTIVITY	37.837069	-76.765484	End of Newport Drive, Dunnsville, VA 22454	Available on site are 5 seasonal slips/moorings, beach and picnic area. No additional services provided.	NA	Marine	N	Rappahannock Shores Community Association	Essex	OPWBAM	5	0	0	N	WB
2	26	11	BOATING ACTIVITY	37.838829	-76.765981	Adjacent to 191 Shore Drive, Dunnsville, VA 22454	Available on site are 18 slips/moorings, and an in-out ramp. No additional services provided.	NA	Marine	N	Rappahannock Shores Community Association	Essex	OPWBAM	18	1	0	N	WB
18	26	1	BOATING ACTIVITY	37.753155	-76.669446	Between 117 and 141 Jamaica Shores Drive, Jamaica, VA 23079	In-out ramp with small dock that has no slips. No services provided at location.	NA	Marine	N	Jamaica Shores Private boat ramp	Middlesex	Under Surveillance	0	0	0	N	WB
15	26	4	BOATING ACTIVITY	37.777389	-76.682552	End of Jones Point Beach Road, Laneview, VA 22504	No services provided. River access for residents.	NA	Marine	N	Jones Point Community Association	Essex	Under Surveillance	0	0	0	N	WB
13	26	6	BOATING ACTIVITY	37.792181	-76.727167	End of Trudi Drive off of Rt. 668, Center Cross, VA 22437	Seasonal slips/mooring. No additional services provided.	NA	Marine	N		Essex	Under Surveillance	4	0	0	N	WB
12	26	7	BOATING ACTIVITY	37.793742	-76.728062	End of Riverside Drive, Center Cross, VA 22437	In-out ramp and loading/unloading dock. Services provided include a Port-a-john which is provided by septic contractor seasonally.	NA	Marine	N	South Hill Banks Civic Association	Essex	Under Surveillance	0	0	0	N	WB
1	26	12	BOATING ACTIVITY	37.840553	-76.766575	End of Muddy Gut Road, Dunnsville, VA 22454	Available on site are 7 seasonal slips/moorings and picnic area. No additional services provided.	NA	Marine	N	Rappahannock Shores Community Association	Essex	Under Surveillance	7	0	0	N	WB
0	26	13	BOATING ACTIVITY	37.842498	-76.766218	Adjacent to Pops Lane on Rt. 651, Dunnsville, VA 22454	Available on site is an in-out ramp for residents use.	NA	Marine	N		Essex	Under Surveillance	0	0	0	N	WB
10	26	14	BOATING ACTIVITY	37.852356	-76.769699	End of Marine Drive, Dunnsville, VA 22454	Available on site are 5 seasonal slips/moorings, pavilion and beach.	NA	Marine	N	Rappahannock River Estates Association	Essex	Under Surveillance	5	0	0	N	WB
9	26	15	BOATING ACTIVITY	37.853332	-76.770690	End of Rivershore Drive, Dunnsville, VA 22454	Available on site is an in-out ramp.	NA	Marine	N	Rappahannock River Estates Association	Essex	Under Surveillance	0	0	0	N	WB
8	26	16	BOATING ACTIVITY	37.854124	-76.770918	216 Garnett Lane, Dunnsville, VA 22454	Available on site is an in-out ramp and 3 seasonal slips/moorings.	NA	Marine	N		Essex	Under Surveillance	3	0	0	N	WB
7	26	17	BOATING ACTIVITY	37.855128	-76.771083	End of Garnett Lane, Dunnsville, VA 22454	Available on site is in-out ramp and pier.	NA	Marine	N	Point Breeze Community Association	Essex	Under Surveillance	0	0	0	N	WB
6	26	18	BOATING ACTIVITY	37.855144	-76.772468	End of Rappahannock Drive, Dunnsville, VA 22454	Available on site is an in-out ramp, pier and beach area.	NA	Marine	N	Point Breeze Community Association	Essex	Under Surveillance	0	0	0	N	WB
5	26	19	BOATING ACTIVITY	37.862515	-76.782271	194 Rio Vista Lane, Dunnsville, VA 22454	Available on site is an in-out ramp and small pier.	NA	Marine	N		Essex	Under Surveillance	0	0	0	N	WB

SUMMARY

Growing Area # 026
Rappahannock River: Wares Wharf to Mud Creek
14 August 2017

SECTION B: SEWAGE POLLUTION SOURCES

1. SEWAGE TREATMENT FACILITIES

0 – DIRECT – None
0 – INDIRECT – None
0 – 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.

0 – POTENTIAL POLLUTION – None

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
0 – INDIRECT – None
0 – C.2. TOTAL

3. STORMWATER OUTFALLS

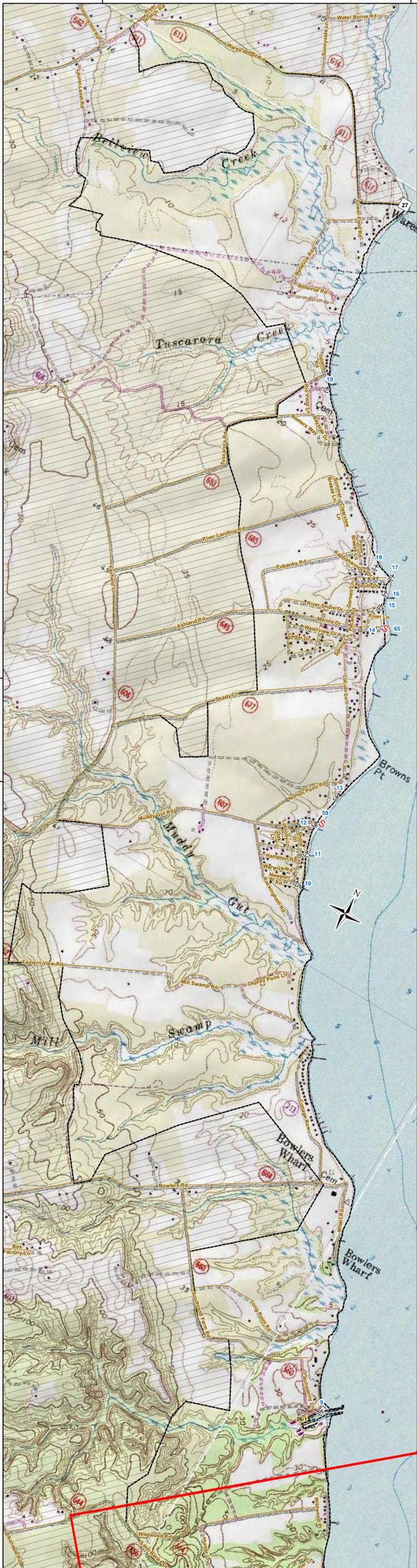
2 – DIRECT – # 59, 65
0 – INDIRECT – None
2 – E. TOTAL

SECTION D: BOATING ACTIVITY

1 – MARINAS – # 9
6 – OTHER PLACES WHERE BOATS ARE MOORED – # 2, 3, 5, 8, 10, 11
12 – UNDER SURVEILLANCE – # 1, 4, 6, 7, 12, 13, 14, 15, 16, 17, 18, 19
19 – D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

0 – DIRECT – None
0 – INDIRECT – None
0 – E. TOTAL



Virginia Department of Health
Division of Shellfish Sanitation

Rappahannock River:
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026
Shoreline Sanitary Survey

Essex and Middlesex Counties
 Date: 14 August 2017
 Survey By: R.M. Thomas, W.A. McCarty III,
 & W.I. Barrack III
 Number of Properties Surveyed: 101
 0 400 800
 Yards

- Legend**
- Seawater Sampling Stations**
 - Active
 - Inactive
 - Sewered areas
 - DGIF Boat Ramps
 - Shoreline Survey Deficiencies**
 - Sewage Treatment Facility - Direct
 - Sewage Treatment Facility - Indirect
 - Contributes Pollution - Direct
 - Contributes Pollution - Indirect
 - Contributes Pollution (kitchen or Laundry wastes) - Direct
 - Contributes Pollution (kitchen or Laundry wastes) - Indirect
 - No Facilities - Direct
 - No Facilities - Indirect
 - Potential Pollution
 - Industrial Wastes, Direct
 - Industrial Wastes, Indirect
 - Solid Waste Dumpsite - Direct
 - Solid Waste Dumpsite - Indirect
 - Boating Activity
 - Contributes Animal Pollution - Direct
 - Contributes Animal Pollution - Indirect

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

