

Department of Health P O BOX 2448 RICHMOND, VA 23218

TTY 7-1-1 OR 1-800-828-1120

LARANGE AND ROBINSON CREEKS Growing Area # 028 Middlesex County Shoreline Sanitary Survey

Date: 23 April 2024

Survey Period: September 27 – December 6, 2023

Total Number of Properties Surveyed and Near-shore Samples Collected: 202

Surveyed By: J. Hudnall, J. Freidman, & M. Farham

SECTION A: GENERAL

This survey area extends from Reference Point 29 at Corbin Hall Road extended at Goose Point to Reference Point 30 at Rappahannock Avenue in the town of Urbanna, including the Rappahannock River shoreline between these two points, Lagrange Creek (South Branch), Robinson Creek, Perkins Creek, and their tributaries.

The area is characterized by elevations that rise sharply from the shoreline adjacent to the Rappahannock River and its tributaries to approximately 20' and then level out to form plateau areas that extend inland.

Meteorological data indicated that 8.8" of rain fell during the survey period. Monthly breakdown is as follows:

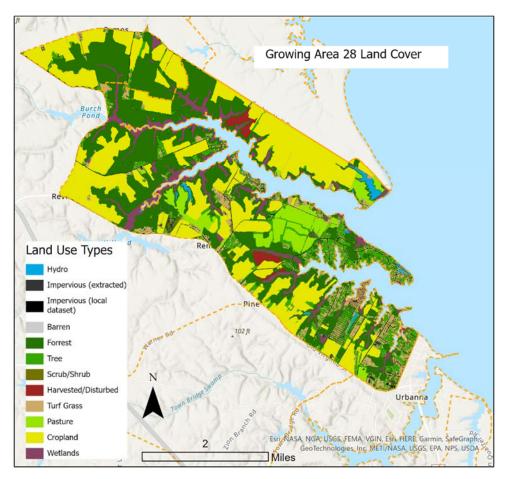
Date Range	Cumulative Rainfall (inches)	Average Monthly rainfall 2012-2022
9/27-30/2023	0"	NA-partial month
10/2023	1.46"	4.78"
11/2023	1.9"	2.87"
12/1-19/2023	5.44"	NA-partial month

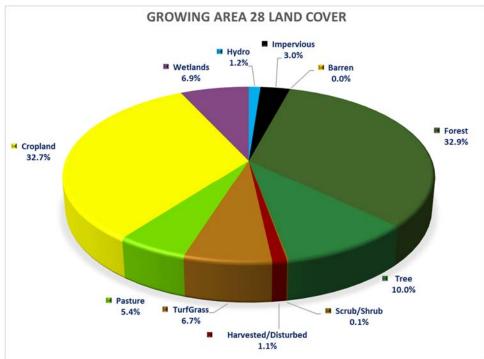
The survey area falls within Middlesex County. Since the 2010 census Middlesex County population remains stable with about 11,000 residents in 7173 housing units. In 2022, 45 building permits were issued.

https://www.census.gov/quickfacts/fact/table/US/PST045221



Within Growing Area # 028, there are 1210 land parcels. Land Cover data are shown below.





Source: https://gismaps.vdem.virginia.gov/Download/Land_Cover/County_Report.pdf

For this survey, nearshore seawater stations were established to survey the full extent of navigable 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 point and nonpoint source pollution. Station data were analyzed to compare relative concentrations of fecal indicator bacteria within the waterway to identify potential onshore sources of contamination.

Hydrographic data, sampling times and range of enterococcus concentrations measured are shown in the table below. Maps of the enterococcus sampling are shown at the conclusion of this report.

Growing Are	Growing Area # 028 Nearshore Sampling Rainfall in inches										
Sample dates	High Tide*	Ebb Current**	Sampling time	Enterococcus range (MPN/100ml)	Day of	Previous 24 hours	Previous 7 days				
09/27/23	10:41	13:02	9:09 – 11:33	9 - 185	0	0.03	2.16				
09/28/23	11:34	14:02	9:02 – 10:40	9 - 591	0	0	2.16				
10/11/23	10:31	12:56	9:00 – 12:50	9 - 2282	0	0	0.13				
Total rainfall for nearshore sampling period (9/27/2023 - 10/11/2023) 0.13"											

^{*} High tide estimated from Urbanna Creek Entrance NOAA ID 2169.

The town of Urbanna, parts of Beth-Page campground, and the subdivisions of Kilmer's Point and Cedar Point are served by sewage treatment plants. The rest of the homes are served by onsite treatment systems.

Information in this report is gathered by and primarily for use by the Division of Shellfish Safety, Virginia Department of Health, to fulfill its responsibilities of shellfish growing area supervision and classification. However, the data are made available to various agencies participating in shellfish program coordinated activities or other interested parties.

Copies of VPDES permits and inspections are available at the Department of Environmental Quality. A directory and interactive map are available via the internet at https://www.deq.virginia.gov/permits/water/surface-waters-vpdes and https://geohub-vadeq.hub.arcqis.com/pages/Water%20Datasets

This report lists only those properties which have a sanitary deficiency or have other environmental significance. "*DIRECT*" indicates that the significant activity or deficiency has a direct impact on shellfish waters.

Copies of the current condemnation notices and maps are available via the Internet at https://www.vdh.virginia.gov/environmental-health/environmental-health-services/shellfish-safety/.

^{**}Slack ebb current estimated Waterview NOAA ID 5486.

SUMMARY

Growing Area # 028 Lagrange and Robinson Creeks 23 April 2024

SECTION B: SEWAGE POLLUTION SOURCES

- 1. SEWAGE TREATMENT FACILITIES
 - 0 DIRECT None.
 - 1 INDIRECT # 220
 - 1 B.1. TOTAL
- **2. ON-SITE SEWAGE DEFICIECIES** Correction of 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.
 - <u>0</u> 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.
 - <u>0</u> INDIRECT None.
 - 0 C.1. TOTAL
- 2. SOLID WASTE SITES
 - 0 DIRECT None.
 - 1 INDIRECT # 109
 - 1 C.2. TOTAL

3. STORMWATER OUTFALLS

- 0 DIRECT None.
- <u>0</u> INDIRECT None.
- 0 E. TOTAL

SECTION D: BOATING ACTIVITY

- 4 MARINAS # 161, 260, 343, 399
- 4 UNDER SURVEILLANCE # 168, 261, 279, 354
- 8 D. TOTAL

SECTION E: ANIMALS PRESENT

- 0 DIRECT None.
- <u>3</u> INDIRECT # 1, 55, 195
- 3 E. TOTAL

Shoreline Survey # 028

SECTION B: SEWAGE POLLUTION SOURCES

	SECTION BY SERVICE OF SECTION SOURCES													
	GA #	Field #	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	DSS Staff	Date of Correction	Correction Notes
2135	28	220	SEWAGE TREATMENT FACILITY, indirect	37.662151	-76.603377	Community WWTP, treated effluent appiled to fields by sprayer.				Kilmers Point Home Owners Association WWTP. VPA01409. Satisfactory DEQ inspection April 2023.	Middlesex	JH		VPA01409

Shoreline Survey # 028 SECTION C: NONSEWAGE WASTE SITES

	GA #	Field #	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	DSS Staff
2129	28	109	SOLID WASTE DUMPSITE, indirect	37.665256	-/6.6/959/1	Salvage yard, metal recycling yard with stormwater outfalls.				VAR052175 satisfactory DEQ inspection August 2023	Middlesex	JH

SECTION D: BOATING ACTIVITY

	Section D. Boating Activity																
	GA #	Field #	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Boating Activity Type	Number of Wet Slips	NUM BOATS <26'	NUM BOATS >26'	Evidence of Live- Aboards	Locality	DSS Staff
2130	28	161	BOATING ACTIVITY	37.671861	-76.607847	Pump out and dump station available.				Remlik Marina	Marina	99	0	0	N	Middlesex	JH
2136	28	260	BOATING ACTIVITY	37.655960	-76.579616	Private community dock.				Kilmer's Point Subdivision	Marina	26	0	0	N	Middlesex	JH
2140	28	343	BOATING ACTIVITY	37.654364	-76.591192	5 house boats, facility has pump out and dump station.				Sunset Point Marina	Marina	28	0	0	Υ	Middlesex	JH
2142	28	399	BOATING ACTIVITY	37.652604	-76.587569	Dump station restrooms and pump out available.				Bethpage Campground	Marina	264	0	0	N	Middlesex	JH
2131	28	168	BOATING ACTIVITY	37.674071	-76.611104	Private Pier.					Under Surveillance	6	0	0	N	Middlesex	JH
2137	28	261	BOATING ACTIVITY	37.657612	-76.580243	Private community ramp.				Kilmer's Point	Under Surveillance	3	0	0	N	Middlesex	JH
2138	28	279	BOATING ACTIVITY	37.659008	-76.585548	Community boat ramp and pier.				Kilmer's Point Community Boat Access	Under Surveillance	4	0	0	N	Middlesex	JH
3090	28	354	BOATING ACTIVITY	37.655402	-76.588786	Commerical building and small pier.					Under Surveillance	5	0	0	N	Middlesex	JH

Shoreline Survey # 028 SECTION E: ANIMALS PRESENT

	GA #	Field #	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Septic System Type	Structure	Contact	Overall Site Remarks	Locality	DSS Staff
2125	28	1	ANIMALS PRESENT, indirect	37.677452	I - /6.590696	45 Cattle fenced away from waterway.				Also evaluated as part of GA 27 survey.	Middlesex	JH
2128	28	55	ANIMALS PRESENT, indirect	37.682114	1-76.620457	3 horses without access to creek. manure moved offfsite.			Υ		Middlesex	JH
2133	28	195	ANIMALS PRESENT, indirect	37.667484	1 -76 596009	At least 50 cattle without direct access to creek.			N		Middlesex	JH
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