



## COMMONWEALTH of VIRGINIA

Department of Health

P O BOX 2448 RICHMOND, VA 23218 1-800-828-1120

### **Growing Area # 21U Corrotoman River, Upper Lancaster County Shoreline Sanitary Survey**

**Completion Date:** 1/29/26

**Survey Period:** 9/9/25 – 1/23/26

**Total Number of Properties Surveyed and Near-Shore Samples Collected:** 200

**Surveyed By:** M. Farnham, T. Egerton, N. Shultz

#### **Section A: General**

This survey area used to cover the entirety of the Corrotoman River watershed but now extends from both upper branches of the Corrotoman River from Mary Ball Road down to Bar Point and Black Stump Point. Everything south of this section in the Corrotoman River is now included in the growing area 21L survey. There are no known sewer systems within this survey boundary. Properties within this survey boundary are served by onsite sewage systems.

Growing Area # 21 splintered on 5/10/21 into Growing Area # 21U, “Corrotoman River, Upper” and Growing Area # 21L, Growing Area # 21L, “Corrotoman River, Lower”.

For the most up-to-date Classification map, see [Virginia Shellfish Classification Map](#)

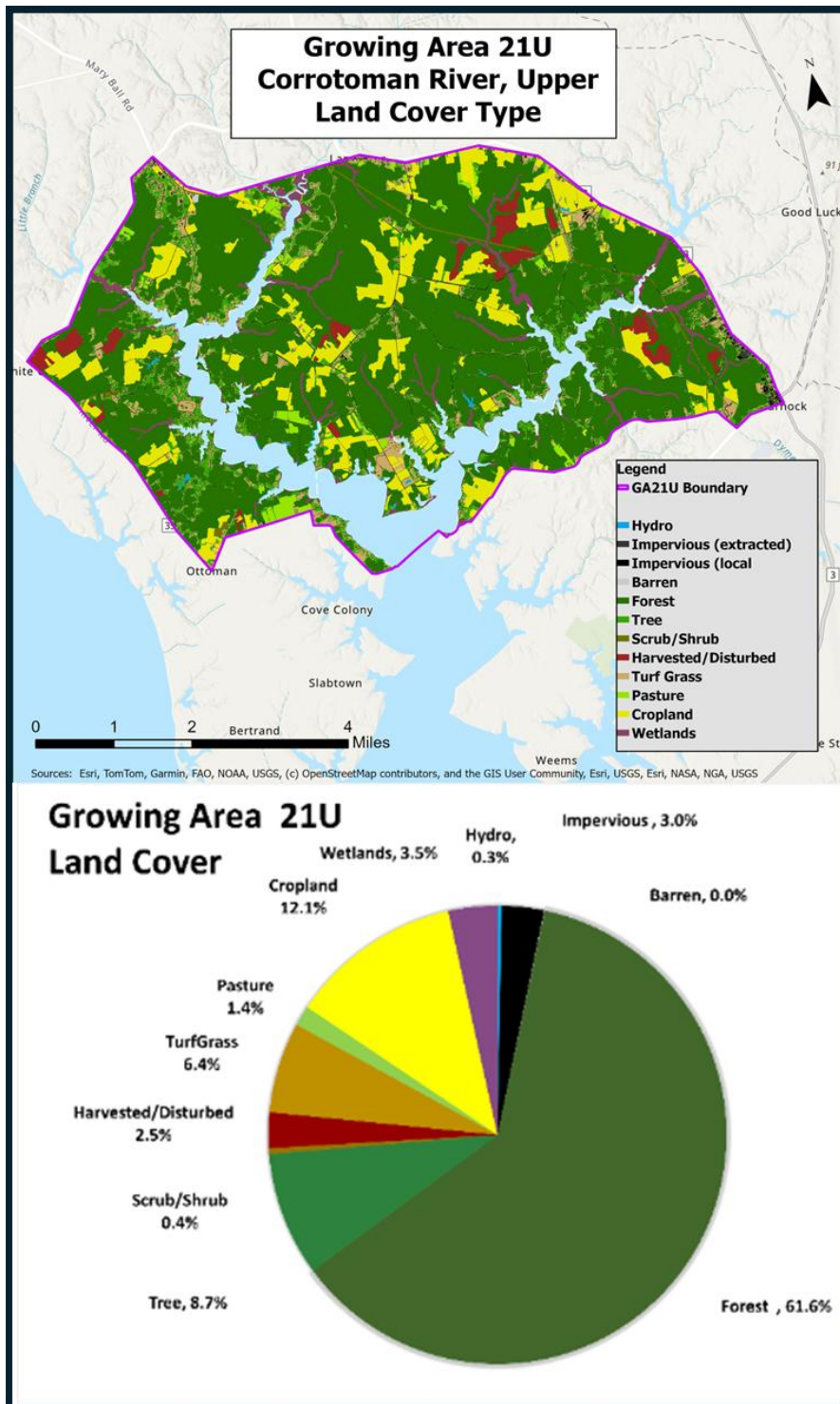
For the Growing Area Boundary Map, see: [Virginia Shellfish Growing Area Boundary Map](#)

#### ***Population and Landcover:***

The topography of the area surveyed begins at the shoreline and increases to 115 feet at the outer edge of the survey boundary line. The growing area is largely rural with the majority of the houses located along the waterfront or on the adjacent roads. The 2020 census reported that there are an estimated 3,852 residents and 2,338 housing units in Growing Area 21U with a population density of 131 residents per square mile.

Source: <https://www.census.gov/geographies/reference-maps/2020/geo/2020-census-block-maps.html>

Land Cover data are shown in the map below and summarized in the following pie chart.



Source: [Virginia Geographic Information Network Land Cover Dataset](#)

***Rainfall Data:***

Meteorological data indicated that 16.82” of rain fell during the survey period. A monthly breakdown is as follows:

<b>Date range</b>	<b>Cumulative Rainfall (inches)</b>	<b>Avg. Monthly rainfall (2015-2025)</b>
July 2025	5.46	6.7
August 2025	2.20	5.7
September 2025	3.94	4.9
October 2025	1.69	3.2
November 2025	2.28	2.5
December 2025	1.25	3.9

***Visual Survey of Growing Area:***

As a part of the shoreline survey, navigable portions of the shellfish growing area waters are observed via boat and/or the public roadways adjacent to the shoreline as conditions allow. This visual survey is conducted to look for and record any actual or potential sources of pollution.

***Nearshore Water Sampling:***

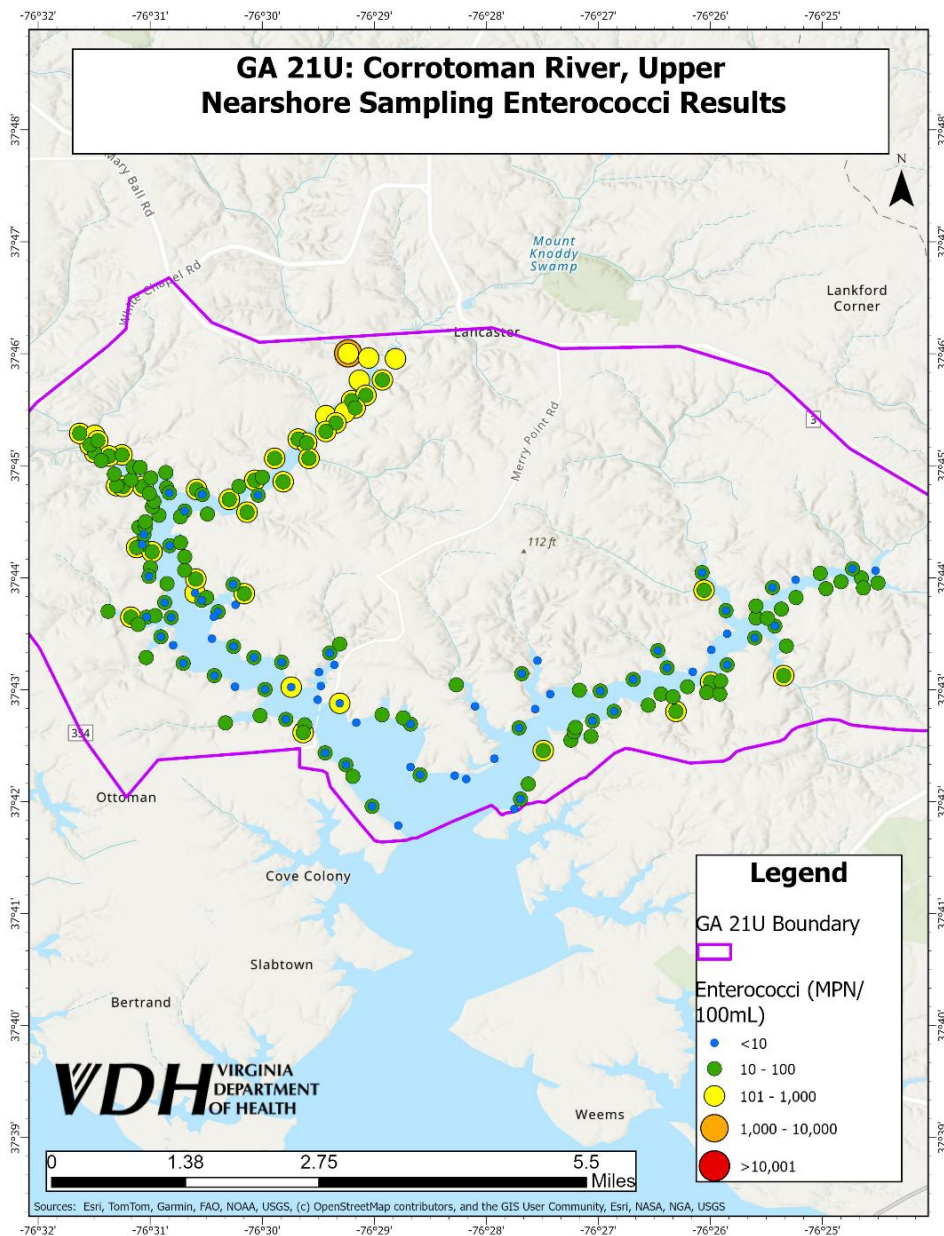
For this survey, nearshore seawater stations were established to assess navigable waters beyond the routine classification stations. These stations were positioned closer to the shoreline and farther upstream than the regular stations, with the goal of evaluating drainage entry points for potential point and nonpoint source pollution. Data from these stations were analyzed to compare fecal indicator bacteria (FIB) concentrations in the waterway and identify possible onshore contamination sources.

The table below shows hydrographic data, sampling times, and the range of enterococci concentrations measured.

Growing Area #21U Nearshore Sampling				Rainfall in inches		
Sample dates	High Tide*	Sampling time	Enterococci range (MPN/100ml)	Day of	Previous 24 hours	Previous 7 days
9/9/25	1:26 PM	9:20 AM - 11:38 PM	<10 - 450	0	0	0.57
10/1/25	6:58 AM	9:30 AM - 1:24 PM	<10 - 644	0	0	1.03
10/2/25	8:07 AM	9:11 AM - 12:26 PM	<10 - 706	0	0	1.02
10/14/25	6:16 AM	9:40 AM - 1:10 PM	31-1,314	0	0	0.89
10/16 /25	8:46 AM	9:35 AM - 1:18 PM	<10 - 160	0	0	0.64
11/10/25	3:35 PM	11:39AM - 12:20 PM	<10 - 189	*no data	0	0.43
11/18/25	10:20 AM	9:57 AM - 12:40 PM	<10 - 31	0.02	0	0
*High Tide estimated from: Millenbeck, Corrotman River NOAA Station ID: 8636458				Total rainfall for nearshore sampling period: 5.51"		

### ***Nearshore Sampling Summary:***

Two full rounds of nearshore samples were taken by boat between September 9<sup>th</sup>, 2025 and November 18<sup>th</sup>, 2025. The enterococci results ranged from <10 to 1,314 (MPN/100ml) and were generally low across much of the growing area. The majority of the samples above 200 (MPN/100mL) came from the upper headwaters of the Corrotoman River, towards Lancaster, VA, which is several miles above the current shellfish closure line. The two enterococci samples that were above 400 (MPN/100) from the first round of sampling, in currently approved shellfish growing areas, were very low 10 or less (MPN/100mL) during the follow up sampling. During the follow-up sampling there were not any noted pollution sources identified visually. Each of these samples are close by a routine monitoring station which would protect from any contamination of the area.



**Marinas and Additional Marine Structures:**

All marine structures (docks, piers, bulkheads) with a total length of 200’ (double sided) or 330’ (single side) within Growing Area 21U were measured and evaluated to determine whether they meet the NSSP definition for a “Marina”. This evaluation was conducted using field observations from the boat and/or with current and historic satellite imagery to determine whether these structures are used for docking and constructed to provide temporary or permanent docking space for more than ten (10) boats. If these structures meet the NSSP Marina definition they are documented and evaluated as a Marina (Section D). There are 3 marinas in GA 21U.

If they meet the size criteria but are determined in the field to either not be used for docking or are not constructed to accommodate more than 10 boats then they are documented as

“Additional Marine Structures” on the Shoreline Survey Field Map Application. For the GA 21U survey, there are a total of 27 of these Additional Marine Structures.

**Condemnations and Deficiencies:**

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

[VPDES Permit Map](#)

Copies of bacteriological, hydrographical, and shellfish closure data are available at the area field office for review. Copies of the current condemnation notices and maps are available via the internet at [www.vdh.virginia.gov/shellfish/](http://www.vdh.virginia.gov/shellfish/).

This report lists only those properties that have sanitary deficiencies or have other environmental significance. “**Direct**” indicates that the significant activity or deficiency has a direct impact on the shellfish growing area waters. Individual field forms with full information on properties listed in this report are on file in the Richmond Office of the Division of Shellfish Safety and are available for reference until superseded by a subsequent survey of the area. Data in the 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.

**Section B: Sewage Pollution Sources**

**Sewage Treatment Facilities**

**-None-**

**On-Site and Sewer Infrastructure Deficiencies**

**-None-**

**Section C: Non-Sewage Waste Sites**

**Industrial Sites**

**-None-**

**Solid Waste Sites**

**-None-**

**Section D: Marinas**

Field ID	Survey Date	Type	Lat/Long	Facility Name	Number of Wet Slips	Over 7 boats present (Y/N)	Evidence of Overnight Boaters (Y/N)	Site Remarks	Contact (Y/N)
M1	1/23/26	Marina	37.7380, -76.5184	Corrotoman By The Bay	13	N	N	13 slips at this community marina and boat ramp. There are no utilities provided.	N
M2	1/23/26	Marina	37.7244, -76.5147	Heritage Point HOA Marina	13	N	N	13 slips at this community marina and boat ramp. Restroom facilities available at resident's homes. Water available at the ramp.	N
M3	1/23/26	Marina	37.7160, -76.4409,	Private Dock	4	Y	N	Over 10 boats stored at private dock.	N

**Section E: Animals**

Field ID	Survey Date	Significant Property Type	Lat/Long	Direct Impact to Shellfish waters (Y/N)	Actual/Potential	Site Remarks	Contact (Y/N)
A1	1/23/26	Domestic	37.7238, -76.4919,	N	Actual	15 horses fenced in and manure is worked into the fields.	Y

## Summary

Growing Area 021U

Corrotoman River, Upper

Completion Date: 1/29/26

### 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 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 – Potential Pollution – None
- 0 – B.2. Total

### Section C: Non-sewage sites

#### 1. Industrial 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

### Section D: Marinas

- 3 – Marinas – M1, M2, M3
- 3 – D. Total


### Section E: Animals


- 0 – Direct – None
- 1 – Indirect – A1
- 1 – E. Total



Virginia Department of Health  
 Division of Shellfish Safety  
 & Waterborne Hazards

Corrotoman River, Upper  
 # 021U  
 Shoreline Sanitary Survey  
 Lancaster County

 MARINA

 ANIMALS, indirect

Date: February 2026

0 1.25 2.5 Miles

**VDH** VIRGINIA DEPARTMENT OF HEALTH

[www.VDH.Virginia.gov/Shellfish](http://www.VDH.Virginia.gov/Shellfish)

