



COMMONWEALTH of VIRGINIA

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YORK RIVER: GLOUCESTER POINT TO ALLMONDSVILLE Growing Area # 047 Gloucester County Shoreline Sanitary Survey

Date: 1 October 2023

Survey Period: May 16, 2023 – September 8, 2023

Number of Samples Collected and Properties Surveyed: 101

Surveyed By: F. Monis, C. Turner, E Yeargan, & I. Geeson

SECTION A: GENERAL

This survey area extends from Reference Point 47 at Gloucester Point to Reference Point 48 at State Route 606, including the York River shoreline between these two points, Fox Creek, Sandy Creek, Jones Creek, Aberdeen Creek, Carter Creek, Cedarbush Creek, Poplar Creek, Timberneck Creek and all of their tributaries.

The topography of the area is generally moderate. Elevations in most of the survey area range from 10' to 50'. The areas of Sandy Creek and the Carmines Islands are low and marshy.

In March 2006, the Commonwealth of Virginia obtained 431 acres of land in Gloucester County located between Aberdeen and Carter Creeks for a new Middle Peninsula State Park. Machicomoco State Park opened in April 2021.

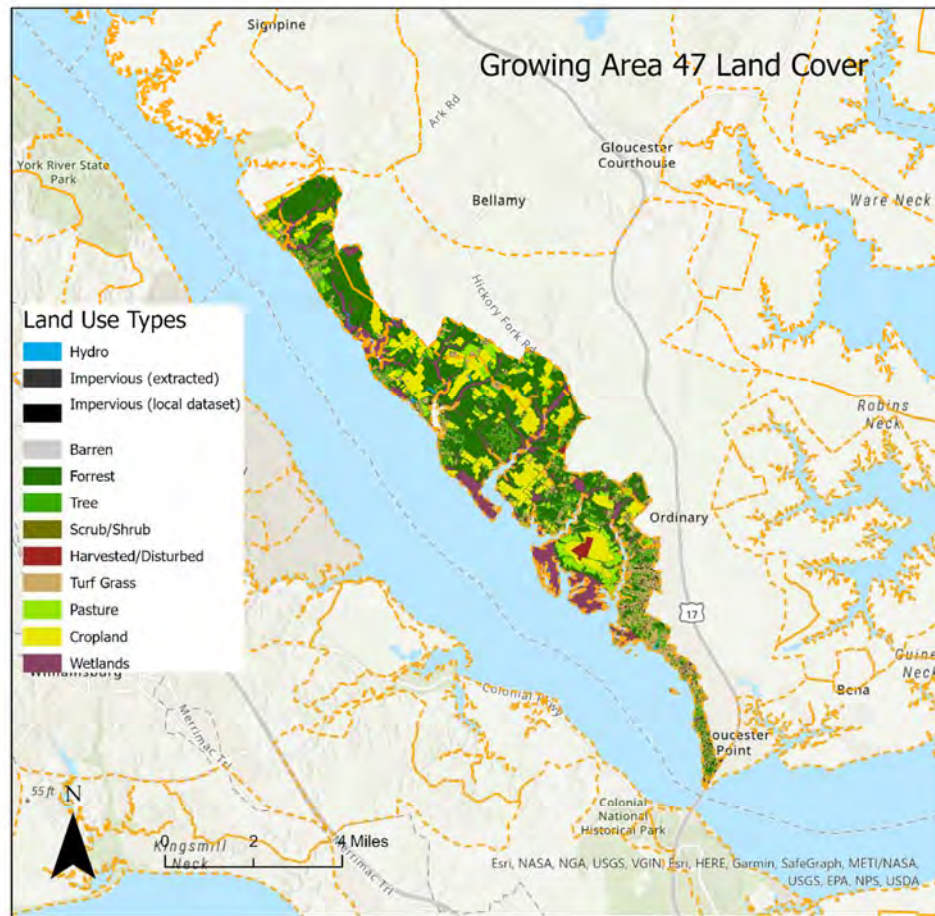
The survey area falls within Gloucester County. The population has increased by an estimated 7% since the 2010 census. The estimated 2022 population is around 39,000 residents. Data from 2022 indicate there are 17,331 housing units, with 171 building permits issued that year.

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

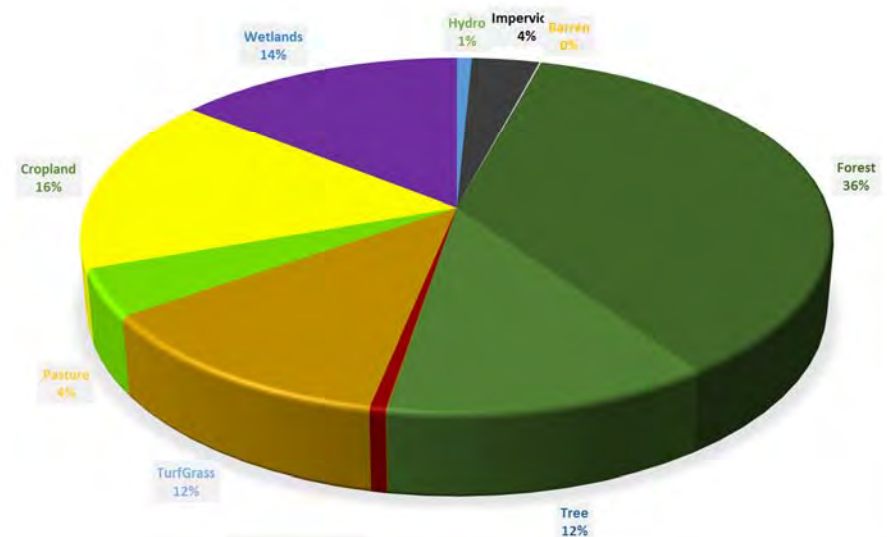
Meteorological data indicated that 16.58" of rain fell during the survey period. A monthly breakdown is as follows:

Date range	Cumulative Rainfall (inches)	Avg. Monthly rainfall (2012-2022)
5/16/2023 - 5/31/2023	2.78	n/a partial month
6/2023	6.99	5.59
7/2023	3.19	5.93
8/2023	3.62	5.00
9/1/2023 - 9/8/2023	0	n/a partial month

Within Growing Area 47 there are 2287 land parcels. Land Cover data are shown below.



GROWING AREA 47 LAND COVER



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 Area # 47 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
5/16/23	8:07	9:52	9:07 – 12:05	9 - 288	0	0	0.58
7/31/23	9:12	10:26	10:04 – 12:35	9 - 393	0.09	0.09	1.08
8/2/23	11:03	12:32	10:19 – 12:33	9-109	0	0	0.36
8/30/23	9:51	11:26	9:57 – 11:12	9 - 41	0	0.04	1.41
Total rainfall for nearshore sampling period 16.39"							

*High Tide estimated from Cheatham Annex NOAA ID# 2207.

**Slack Ebb Current estimated from Allmondsville NOAA ID# 5386.

Information in this report is gathered by and primarily for use by the Division of Shellfish Safety, Virginia Department of Health, in order 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-regulations/permits/water/surface-water-virginia-pollutant-discharge-elimination-system> and <https://geohub-vadeq.hub.arcgis.com/pages/Water%20Datasets>

Copies of Bacteriological, Hydrographic and Shellfish Closure data are available at the area office for review. 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/>

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.

SECTION B: SEWAGE POLLUTION SOURCES

[illegible]

SECTION C: NONSEWAGE WASTE SITES

[illegible]

SECTION D: BOATING ACTIVITY

[illegible]

Shoreline Survey # 047

SECTION E: ANIMALS PRESENT

[illegible]

SUMMARY

Growing Area # 047

York River: Gloucester Point to Allmondsville

1 October 2023

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 – B.2. TOTAL

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

4 – POTENTIAL POLLUTION – # CY8, CY23, F3, F4

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

0 – DIRECT – None.

0 – INDIRECT – None.

0 – E. TOTAL

SECTION D: BOATING ACTIVITY

2 – MARINA – # 997, F5

6 – UNDER SURVEILLANCE – # CY9, CY10, CY24, F1, F6, F10

8 – D. TOTAL

SECTION E: ANIMALS PRESENT

0 – DIRECT – None.

10 – INDIRECT – # CY1, CY6, CY12, CY13, CY21, CY22, CY25, F2, F8, F9

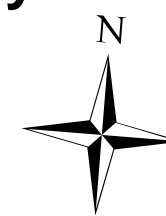
10 – E. TOTAL

Virginia Department of Health
Division of Shellfish Sanitation

York River: Gloucester Point
to Allmondsville
047
Shoreline Sanitary Survey

Gloucester County

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0 1000 2000
Yards

Legend

Seawater Sampling Stations

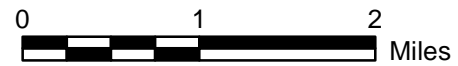
- Active
- Inactive
- Sewered Areas
- Boat Ramps (DGIF)

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
- Stormwater, Direct
- Stormwater, Indirect
- Boating Activity
- Contributes Animal Pollution - Direct
- Contributes Animal Pollution - Indirect

Near Shore Enterococcus Sampling Growing Area # 047 - York River: Gloucester Point to Allmondsville Gloucester County

* Highest value was 393 collected on 7/31/23.



Legend

Enterococcus spp. (MPN/100ml)

Sampling Dates: 5/16/23 - 8/30/23

- < 10
- 10 - 100
- 101 - 1000
- 1001 - 10000
- > 10000