



COMMONWEALTH of VIRGINIA

Department of Health
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SEASIDE: SMITH ISLAND TO SAND SHOAL INLET Northampton County Growing Area # 094 Shoreline Sanitary Survey

Date: 19 November 2024

Survey Period: June 27 – November 7, 2024

Total Number of Properties Visited and Samples Processed: 37

Surveyed By: T. Charnock, R. Snead, & I. Geeson

SECTION A: GENERAL

This survey area spans from State Route 631 to Machipongo Inlet along the Atlantic Coast, including all bays and tributaries southward to a line extending from State Route 643 across The Thorofare and Mockhorn Island, to the barrier island south of Sand Shoal Inlet.

Inland elevations range from sea level to between 25' and 38' at the headwaters of the watershed. The boundaries of the Growing Area on the Seaside Eastern Shore are being revised to better reflect the natural shape of the bays and inlets. The fieldwork conducted for this survey follows the previous (2023) GA 94 - GA 95 border to the north and the revised (2024) GA 93 - GA 94 border to the south. Data on land cover, population, and parcel counts reflects the Growing Area as it was before these revisions. For the most up-to-date map, see:

<https://www.vdh.virginia.gov/environmental-health/environmental-health-services/shellfish-safety/shellfish-harvesting-area-map/> and
https://webapps.mrc.virginia.gov/public/maps/chesapeakebay_map.php

Meteorological data indicated that 16.98" of rain fell during the survey period. A monthly breakdown is as follows:

Date range	Cumulative Rainfall in inches	Avg. Monthly rainfall (2013-2023)
June 27-30, 2024	1.68"	NA (partial month)
July 2024	7.59"	4.29"
August 2024	2.48"	3.79"
September 2024	5.07"	4.12"
October 2024	0.16"	3.04"
November 1-7, 2024	0	NA (partial month)

For this survey, nearshore seawater stations were established to survey the 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.

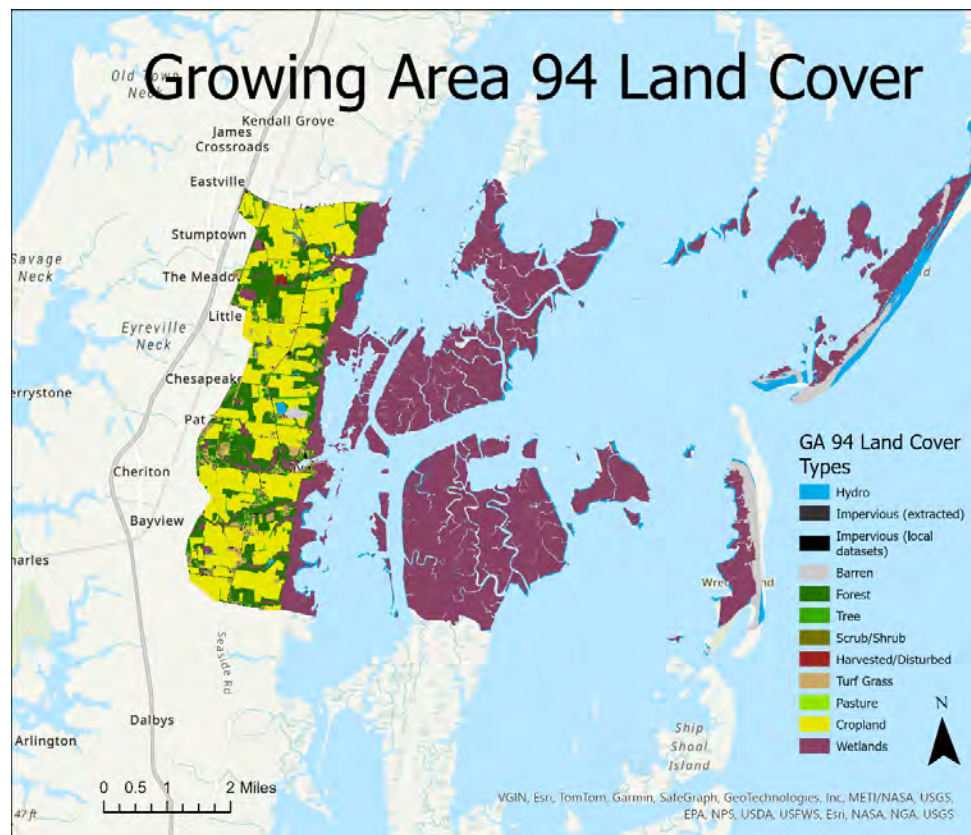
Growing Area # 94 Nearshore Sampling					Rainfall in inches	
Sample dates	High Tide*	Sampling time	Enterococcus range (MPN/100ml)	Day of	Previous 24 hours	Previous 7 days
8/1/24	06:38	08:05-09:13	<10-132	0"	0.39"	0.8"
9/23/24	13:26	11:49-12:35	<10	0"	0"	2.09"
10/21/24	12:07	12:02-13:12	<10-20	0"	0"	0.02"
10/22/24	12:28	10:38-12:55	<10	0"	0"	0.02"
11/7/24	12:15	11:48 – 11:54	<10 - 10	0	0"	0"
Total Rainfall for Sampling period: 7.71"						

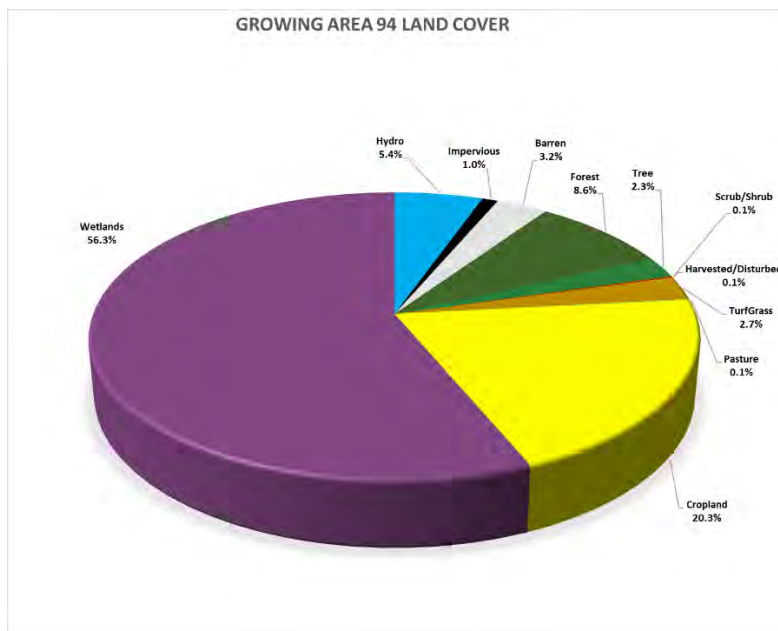
*High Tide estimated from Oyster Harbor, VA (NOAA ID 8631591).

The 2020 census reported that there are an estimated 1276 residents across 625 housing units in Growing Area 94. The population density is 48 people per square mile.

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

Within Growing Area 94 there are 753 land parcels. Land Cover data are shown below:





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

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-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 SITES

[illegible]

SECTION E: ANIMALS PRESENT SITES

[illegible]

SUMMARY

Growing Area # 094
Seaside: Smith Island to Sand Shoal Inlet
19 November 2024

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.

0 – POTENTIAL POLLUTION – None.

SECTION C: NON-SEWAGE WASTE SITES

1. INDUSTRIAL WASTE SITES

1 – DIRECT – # T3
0 – INDIRECT – None.
1 – C.1. TOTAL

2. SOLID WASTE DUMPSITES

0 – DIRECT – None.
1 – INDIRECT – # T6
1 – C.2. TOTAL

3. STORMWATER OUTFALLS

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

SECTION D: BOATING ACTIVITY, INDIRECT

1 – MARINAS – # T1
3 – UNDER SURVEILLANCE – # T2, T4, T5
4 – D. TOTAL

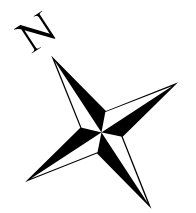
SECTION E: ANIMALS PRESENT

0 – DIRECT – None
1 – INDIRECT – # T7
1 – E. TOTAL

Virginia Department of Health
Division of Shellfish Sanitation

Seaside:
Smith Island to Sand Shoal Inlet
094
Shoreline Sanitary Survey

Northampton County
Date: 19 November 2024
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& I. Geeson
Number of Properties Surveyed: 37
0 1000 2000
Yards



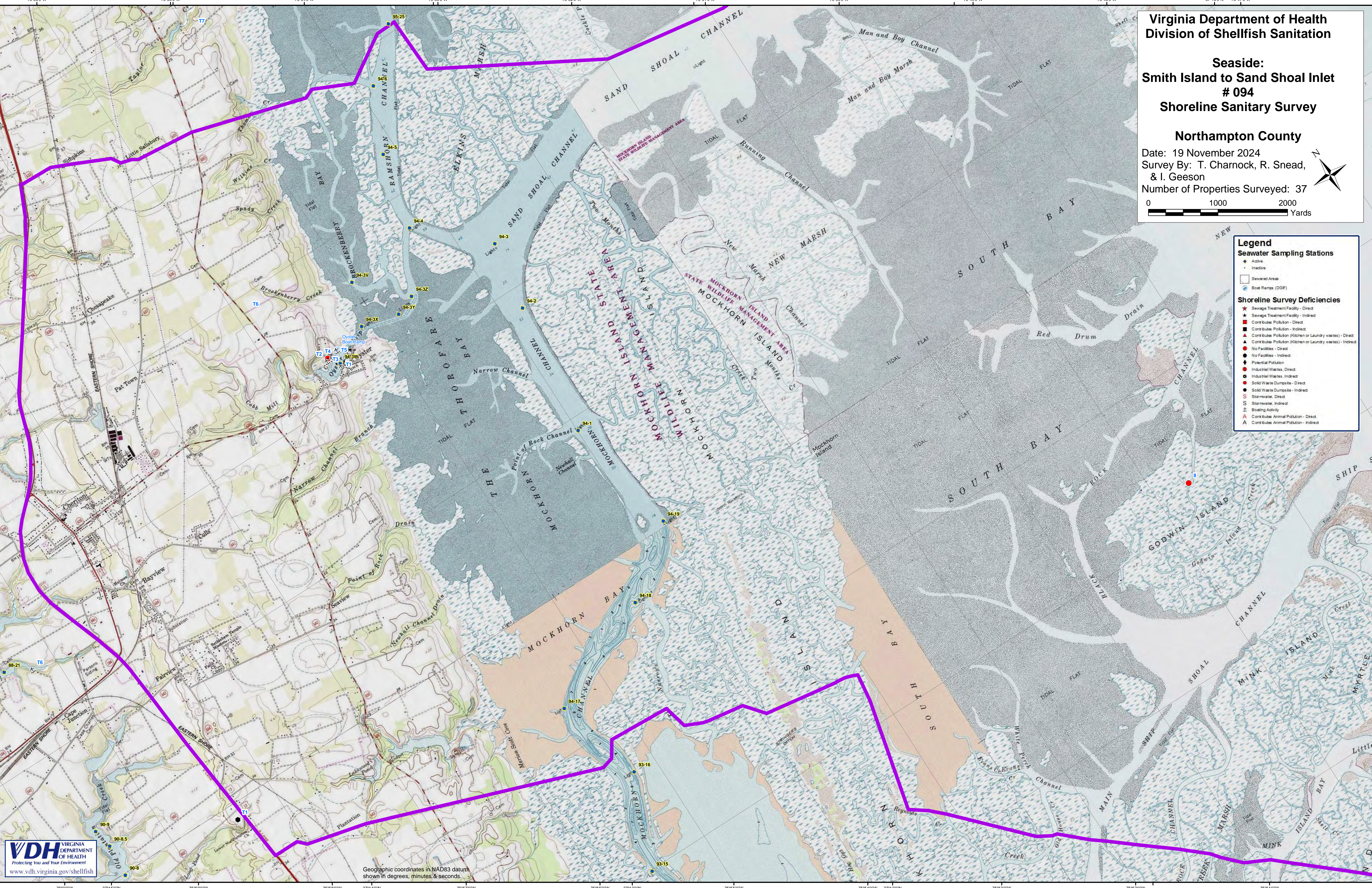
Legend

Seawater Sampling Stations

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

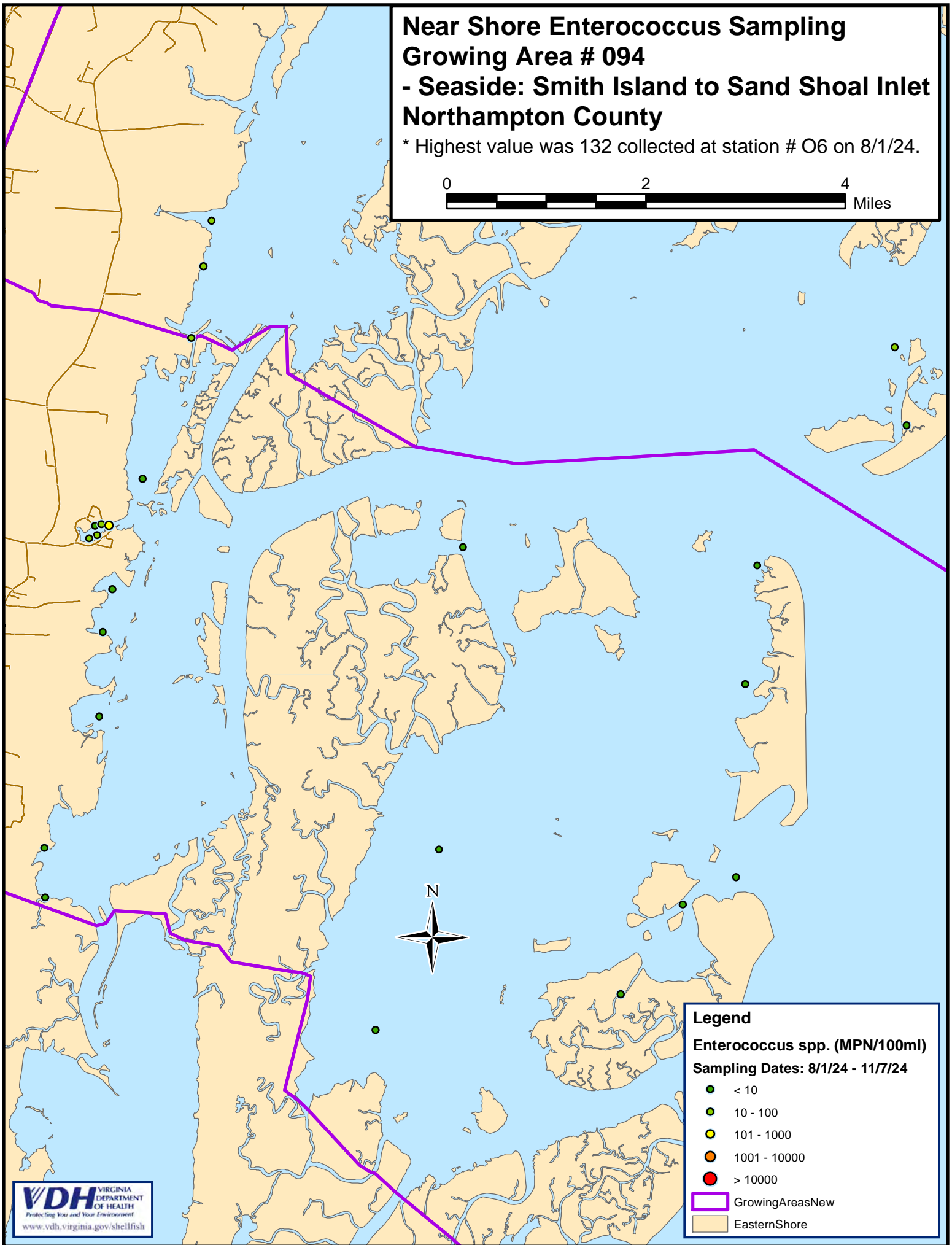
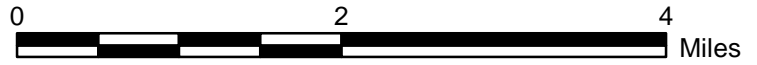
Shoreline Survey Deficiencies

- 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 # 094 - Seaside: Smith Island to Sand Shoal Inlet Northampton County

* Highest value was 132 collected at station # O6 on 8/1/24.



Legend

Enterococcus spp. (MPN/100ml)

Sampling Dates: 8/1/24 - 11/7/24

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

GrowingAreasNew
EasternShore