COMMONWEALTH of VIRGINIA
Department of Health
P O BOX 2448
RICHMOND, VA 23218

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

NANDUA AND CURRATUCK CREEKS
Growing Area # 082
Accomack County
Shoreline Sanitary Survey

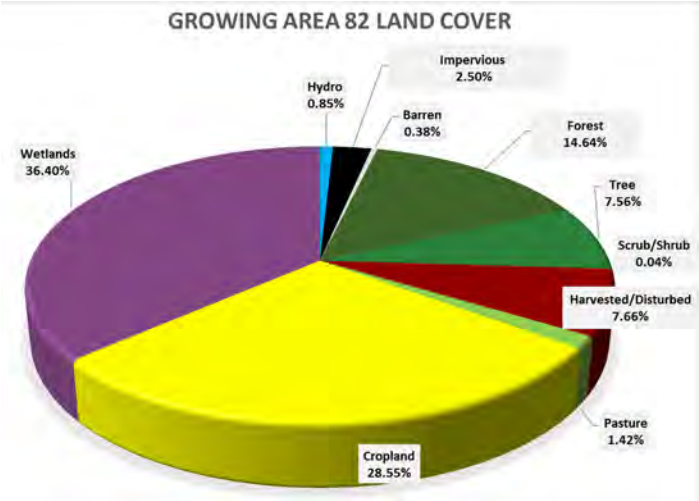
Date: 6 August 2024
Survey Period: January 4, 2024 – July 31, 2024
Total Number of samples analyzed and sites evaluated: 124
Surveyed By: T. Wagner, R. Snead, T. Charnock, & I. Geeson

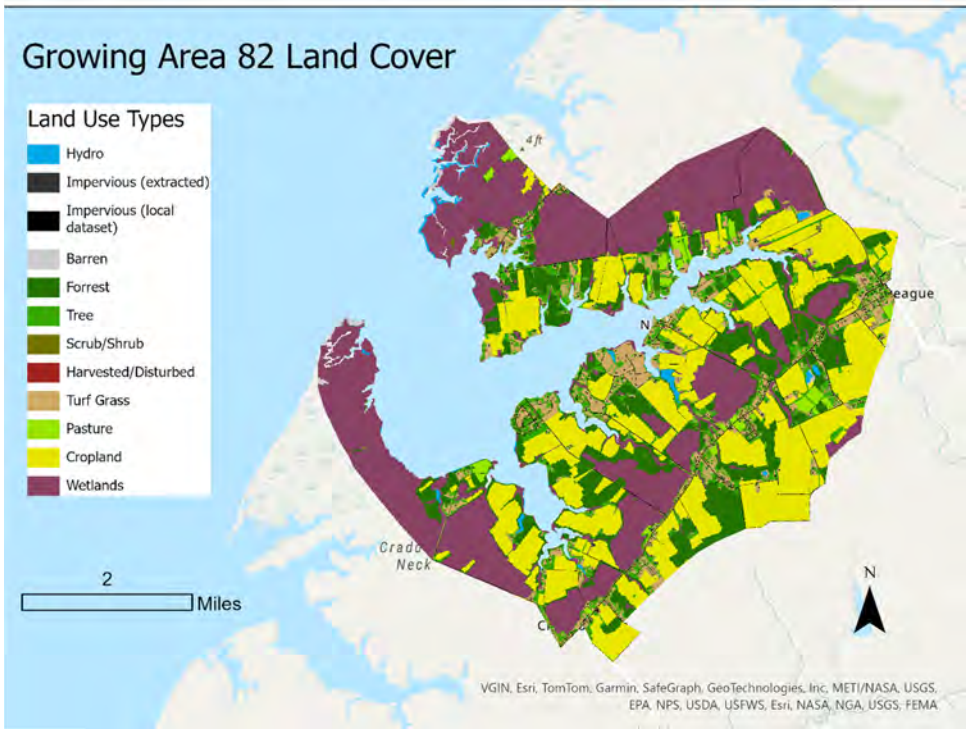
SECTION A: GENERAL

This survey extends from Reference Point 82 at Route 633 (extended to shoreline) to Reference Point 83 at Milbrys Point, including the Chesapeake Bay shoreline between these two points, Nandua Creek, Back Creek, Kusian Cove, Boggs Gut, McLean Gut, Curratuck Creek, and all of their tributaries.

Elevations are below 5' within the primary shoreline boundary (1500’ shoreward of mean high water). A relatively flat plateau extends along the entire area to 10’ rise approximately one mile from Route 178 where the elevation is about 25’. It reaches a maximum of 45’ at the outer reaches of the drainage basin.

All properties throughout the survey are served by on-site sewage disposal systems. The 2020 census reported that there are an estimated 1189 residents across 722 housing units in Growing Area 82. Within Growing Area 82 there are 1374 land parcels. Land Cover data are shown below.





Meteorological data indicated that 24.52" of rain fell during the survey period. A monthly breakdown is as follows:

Date range	Cumulative Rainfall	Avg. Monthly rainfall (2013-2023)
January 4 - 31, 2024	3.15"	NA (partial month)
February 2024	2.59"	3.28"
March 2024	7.00"	3.22"
April 2024	1.36"	3.24"
May 2024	2.90"	3.71"
June 2024	2.07"	4.67"
July 2024	5.45"	4.68"

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 # 82 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
2/21/24	9:40	12:36	9:50 – 11:12	<10 - 10	0	0	0.02
4/17/24	7:44	10:42	9:17 – 10:40	<10 - 60	0	0.02	0.53
5/30/24	5:12	08:00	7:55 – 9:52	<10 - 75	0.08	0.04	0.5
6/17/24	08:24	10:12	9:14 – 12:03	<10 - 591	0	0	0.19
7/31/24	08:50	10:24	9:01 – 10:20	<10 - 31	0.44	0	1.91
Total rainfall for nearshore sampling period (2/21/24 - 7/31/24) 20.02”							

* High Tide estimated from Harborton, Pungoteague Creek, VA (NOAA ID 8633091).
** Slack Ebb Current estimated from Milby Point, 5.3 n.mi. WNW of (NOAA ID ACT4736).

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.

Shoreline Survey # 082

SECTION B: SEWAGE POLLUTION 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

Shoreline Survey # 082

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

Shoreline Survey # 082

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	Evidence of Live-Aboards	Locality	DSS Staff
5287	82	16	BOATING ACTIVITY, indirect	37.634330	-75.880440	Semi permanent camper observed onsite, holding tank emptied at Sun Outdoors campground.			Y	Shellstock Shipper, seafood landing site.	Under Surveillance	5	N	Accomack	TW

Shoreline Survey # 082

SECTION E: ANIMALS PRESENT

	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
5239	82	59	CONTRIBUTES ANIMAL POLLUTION, direct	37.634018	-75.847116	Present at time of survey via land were 9 sheep, 5 cows, 2 alpacas (confined). All 9 sheep, & 2 cows were free ranged access to creek			N	Dwelling-white vinyl siding 1 story house with natural wood barn.	Accomack	TW		
2766	82	76	CONTRIBUTES ANIMAL POLLUTION, indirect	37.633463	-75.825593	Cattle and alpacas observed from boat. Fenced, no access to stream.			N		Accomack	TC		

SUMMARY

Growing Area # 082
Chesapeake Bay: Nandua Creek
6 August 2024

SECTION B: SEWAGE POLLUTION SOURCES

1. SEWAGE TREATMENT FACILITIES

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

2. ON-SITE SEWAGE DEFICIENCIES – Correction of deficiencies is 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 – 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 – TOTAL

2. SOLID WASTE DUMPSITES

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

3. STORMWATER

0 – DIRECT – None.
0 – INDIRECT – None.
0 – C.3. TOTAL

SECTION D: BOATING ACTIVITY, INDIRECT

0 – MARINAS – None.
1 – UNDER SURVEILLANCE – # 16
1 – TOTAL

SECTION E: ANIMALS PRESENT

1 – DIRECT – # 59
1 – INDIRECT – # 76
2 – TOTAL

Virginia Department of Health
Division of Shellfish Sanitation

Chesapeake Bay: Nandua Creek
082
Shoreline Sanitary Survey

Accomack County

Date: 6 August 2024
Survey By: T. Wagner, R. Snead,
T. Charnock, & I. Geeson
Number of Properties Surveyed &
Near shore samples collected: 124

N

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

75°55'0"W 75°52'30"W 75°50'0"W 75°47'30"W

37°37'30"N 37°35'0"N

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

VDH VIRGINIA DEPARTMENT OF HEALTH
Protecting You and Your Environment
www.vdh.virginia.gov/shellfish

Near Shore Enterococcus Sampling
Growing Area # 082 - Chesapeake Bay: Nandua Creek
Accomack County

* Highest value was 591 collected at station # W5 on 6/17/24.

0 2000 4000 Yards