

COMMONWEALTH of VIRGINIA DEPARTMENT OF HEALTH DIVISION OF SHELLFISH SAFETY

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HORN HARBOR AND DYER CREEK Growing Area # 039 Mathews County Shoreline Sanitary Survey

Date: 20 January 2022
Survey Period: September 7 – December 14, 2021
Number of properties visited and Near-shore Enterococci samples collected: 296
Surveyed By: W. Barrack, W. McCarty, J. Carrier, A. Wood, I. Geeson, A Roach

SECTION A: GENERAL

This survey area extends from Reference Point 39 at Beach Point to Reference Point 40 at New Point Comfort, including the Chesapeake Bay shoreline between these two points, Horn Harbor (Smith Creek), Doctors Creek, Dyer Creek and all of their tributaries within a designated boundary line drawn by the Division of Shellfish Sanitation.

The topography of the area has low elevation, rising to a maximum of 10 feet above sea level. The population is moderate with a concentration of dwellings along the waterfront. Many dwellings are occupied as part time vacation properties.

The economy is based on local commerce, forestry, boating and fishing, seafood and retail trade.

Meteorological data indicated that the area received a total precipitation of 6.19" for the survey period. A monthly breakdown is as follows:

September 7-30 1.32" October 3.38" November 1.16" December 1-14 0.33"

Nearshore seawater stations were established to survey the full extent of 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.

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 www.vdh.virginia.gov/shellfish/. Information in this report is gathered by and primarily for use of 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.



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. 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 resurvey of the area. Data in the report is also made available to local health departments and other agencies to address items that may be out of compliance with their regulatory programs.

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	ea 56 Nearsho	ore Sampling		Rainfall in inches						
Sampling Dates	High Tide	Ebb Current	Sampling Time	Enterococcus range (MPN/100mL)	Day of	Previous 24 hours	Previous 7 days			
9/7/21	10:00	13:33	11:16 - 13:40	<10 - 85	0.00	0.00	0.27			
9/8/21	10:43	14:24	12:15 - 13:28	<10 - 183	0.34	0.00	0.27			
9/20/21	/20/21 9:21		10:10 - 12:45	<10 - 62	0.00	0.00	0.02			
10/5/21	8:47	12:28	10:05 - 12:57	<10 - 197	0.00	0.00	0.07			
10/6/21	9:32	13:18	10:18 - 13:14	<10 - 404	0.21	0.00	0.28			
11/4/21	9:06	13:01	10:36 - 12:03	<10 - 199	0.00	0.01	1.18			
11/9/21	12:34	16:25	12:20 - 14:18	<10 - 1388	0.00	0.00	0.05			

* High Tide from Wolf Trap Light.

** Ebb Slack Current from Wolf Trap Light.

SECTION B: SEWAGE POLLUTION SOURCES

	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Address	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	DSS Staff	Date of Correction	Correction Notes
49:	9 39	G2	12/15/2021	POTENTIAL POLLUTION	37.326192	-76.273371	Chesapeake Shore Road, Port	One resident stated that some properties in the community have drain field problems during periods following heavy rains. No deficiencies observed during site visit.	Conv	Dwelling	Y	Bayfront cottages and residences with community drinking water and onsite septic systems.	Mathews	IG		Resident is starting process of installing new onsite septic system.

SECTION C: NONSEWAGE WASTE SITES

GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Address	Pollutant Remarks	Septic System Type	Structure	Contact	Overall Site Remarks	Locality

SECTION D: BOATING ACTIVITY

	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Address	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	Boating Activity Type	Number of Wet Slips	NUM BOATS <26'	NUM BOATS >26'	Evidence of Live- Aboards	DSS Staff
184	∗ 39	92	10/25/2021	BOATING ACTIVITY	37.365430	-76.289051	1099 Possum Point Road, Port Haywood, VA 23138		Conv	Marine	Y	A&E Outboards. Marina drain field to southwest of property. Residence served by alternative system in front yard.	Mathews	Marina	20	0	0	Ν	IG
1854	4 39	178	12/15/2021	BOATING ACTIVITY	37.369599			Houseboats have mobile pump stations to convey waste to dump station.	Conv	Marine	Y	Horn Harbor Marina.	Mathews	Marina	69	0	0	N	IG
186	₅ 39	551	12/17/2021	BOATING ACTIVITY	37.340232		846 Sand Bank Road, New Point, VA 23125	Portable toilet and hand wash at marina, campground has full facilities.	Conv	Marine	Y	New Point RV Resort and Campground. Marina for campground, 320 campsites.	Mathews	Marina	93	0	0	N	IG
184	7 39	90	10/25/2021	BOATING ACTIVITY	37.367105	-76.290478	997 Possum Point Road, Port Haywood, VA 23138		Conv	Marine	N	Horn Harbor Seafood. Seafood landing site.	Mathews	Under Surveillance	5	0	0	Ν	IG
4878	∗ 39	G1	10/25/2021	BOATING ACTIVITY	37.366994	-76.275173	End of Captain Gene's Road, New Point, VA 23125		NA	Marine	N	Horn Harbor Landing. Unimproved public boat ramp.	Mathews	Under Surveillance	0	0	0	Ν	IG
4922	2 39	99.62	12/22/2021	BOATING ACTIVITY	37.338842	-76 280202	555 Dyers Creek Road, Port Haywood, VA 23138		Conv	Marine	Y	Seafood landing site.	Mathews	Under Surveillance	4	0	0	Ν	IG

Shoreline Survey # 039

SECTION E: CONTRIBUTES ANIMAL POLLUTION

	(GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Address	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality
18	358	39	280	12/17/2021	CONTRIBUTES ANIMAL POLLUTION, direct	37.365029	-76.302189	381 Aldendale Lane, Mathews, VA 23109	4 horses observed.		Dwelling	N	Fenced portion of pasture allows some intertidal access to creek.	Mathews

SUMMARY

Growing Area # 039 Horn Harbor and Dyer Creek 20 January 2022

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 the section is the responsibility of the local health department.

- 0 CONTRIBUES POLLUTION, DIRECT None 0 – CONTRIBUES 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.

1 – POTENTIAL POLLUTION - # G2

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

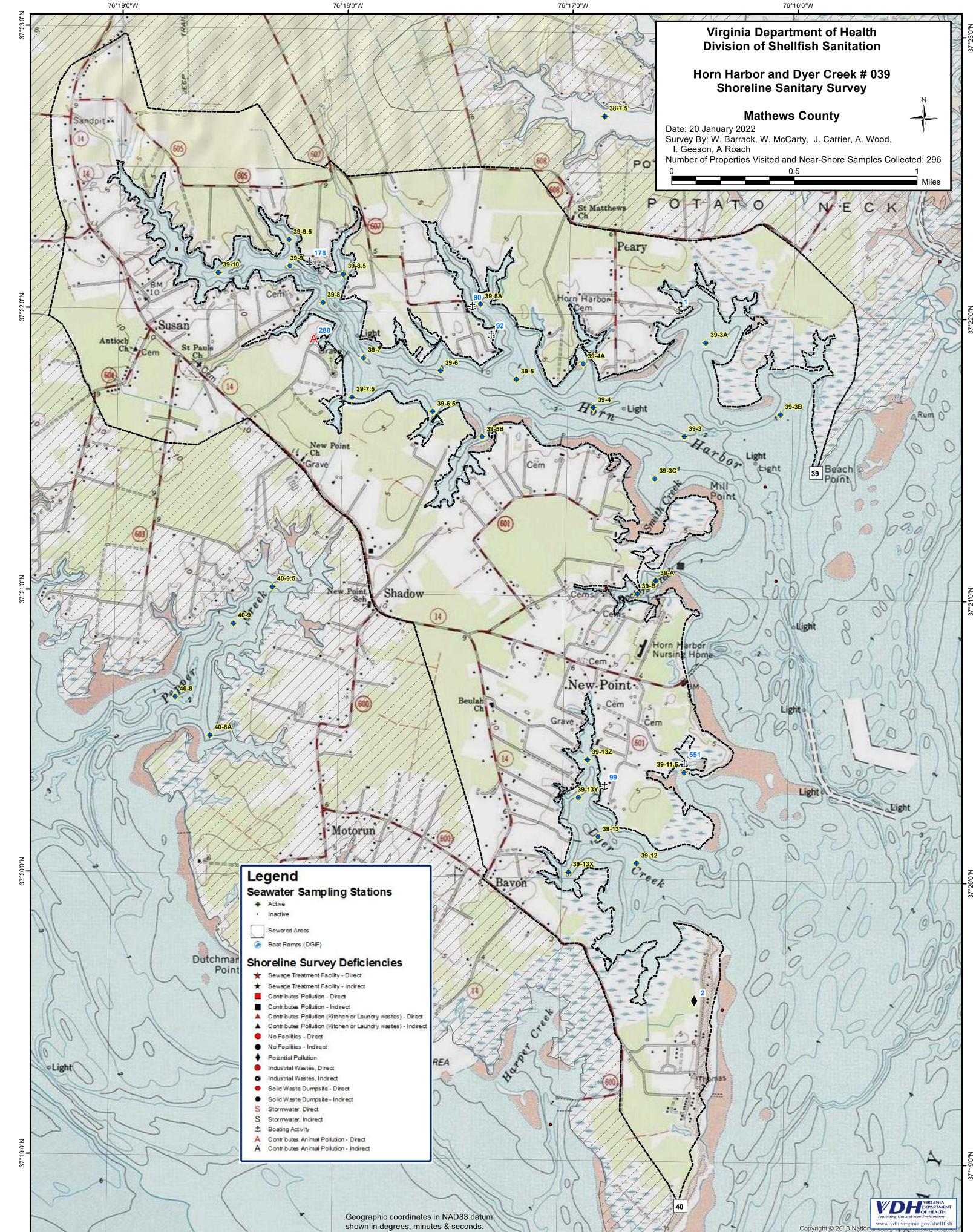
- 0 DIRECT None.
- 0 INDIRECT None.
- 0 E. TOTAL

SECTION D: BOATING ACTIVITY

- 3 MARINA # 92, 178, 551
- 0 OTHER PLACES WHERE BOATS ARE MOORED None.
- <u>3</u> UNDER SURVEILLANCE # 90, G1, 99.62
- 5 D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

- 1 DIRECT # 280
- <u>0</u> INDIRECT None.
- 1 E. TOTAL



76°19'0"W

76°18'0"W

76°17'0"W

76°16'0"W

GA # 039 - Horn Harbor & Dyer Cr Enterococci Sampling

- Highest Sample: 1388 at #106 on 11/4/21.

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Enterococcus spp. (MPN/100ml) Sampling Dates: 9/7/21 - 11/4/21

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