

# **COMMONWEALTH of VIRGINIA**

Department of Health Division of Shellfish Safety

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# ONANCOCK AND MATCHOTANK CREEKS Growing Area # 080 Shoreline Sanitary Survey Accomack County

Date: 14 September 2021

Survey Period: December 8, 2020 – September 6, 2021

Total Number of Properties Surveyed & Near-shore Samples Collected: 170

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

**SECTION A: GENERAL** 

This survey area extends from Reference Point 80 at Ware Point to Reference Point 81 at West Point, including the Chesapeake Bay shoreline between these two points, Onancock Creek (Poplar Cove, Cedar Creek, North Branch, Central Branch (Joynes Branch), South Branch (Titlow Creek, Warrington Branch), Leatherberry Creek, Finney's Creek, Parkers Creek, and Thicket Creek), Matchotank Creek, Tarkill Creek, and all of their tributaries.

The topography varies in elevation from 0-5' along the shoreline marshes to a maximum of 40' at the inland eastern edge of the survey boundary. The population is moderate with heavier concentrations around the Town of Onancock, and in small waterfront developments between Onancock and Pungoteague Creeks. The economy is heavily agricultural, with a growing seafood industry and a notable degree of tourism and small businesses. Meteorological data indicated that the area received a total rainfall of 27.45" for the survey period.

Meteorological data indicated that the area received a total rainfall of 27.45" for the survey period. A monthly breakdown is as follows:

January	1.95"	February	4.98"	March	2.39"	April	1.03"
May	1.4"	June	4.15"	July	4.85"	August	3.79"

At the beginning of the survey, inspectors reviewed the available literature from prior reports, public works and online resources to characterize land use, drainage patterns, and establish nearshore seawater stations. Properties identified in the previous survey as having sanitary deficiencies or other environmental significance were revisited to evaluate their current status. All roadways and navigable shoreline within the survey boundary were visually inspected to identify potential pollution sources requiring further investigation.

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.

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 A	Growing Area # 80 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					
1/21/21	6:00	6:40	9:45-11:43	<10-31	0.00	0.00	0.19					
1/25/21	9:35	10:10	10:32-12:00	<10-107	0.17	0.00	0.00					
1/27/21	7/21 11:04 11:30		12:21-13:17	<10-173	0	0.18	0.35					
5/5/21	8:27	8:35	10:07-10:45	<10-20	0.06	0.02	0.29					
5/24/21	10:51	10:28	10:20-12:35	<10-161	0.02	0.00	0.00					
6/23/21	11:28	10:55	10:57-12:38	<10-158	0.00	0.82	0.82					
8/17/21	7:45	7:32	14:07-14:22	<10-<10	0.02	0.01	0.34					
	Tota	al rainfall f	or nearshore sa	ampling period	2	1.81"						

<sup>\*</sup> High tide estimated from Onancock Creek.

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 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.

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.

<sup>\*\*</sup> Slack ebb current estimated from four miles south of Watts Island.

## **SECTION B: SEWAGE POLLUTION SOURCES**

OBJECTID	GA #	Field #	Inspection Date	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
1773	80	G95		SEWAGE TREATMENT FACILITY, direct	37.716787	-/5./48158	Design flow 0.75 MGD. Average Flow 0.33 MGD.	NA			Onancock Wastewater Treatment Plant. VPDES # VA0021253 BNR, Chlorine and UV treatment.	Accomack	IG		
1794	80	C2	5/5/2021	NO FACILITIES, direct	37.698317	-75.852780					Offshore structure on Southern edge of Parkers Island.	Accomack	IG		
1795	80	С3	5/5/2021	NO FACILITIES, direct	37.696547	-75.859418					Offshore structure on Southern edge of Parkers Island.	Accomack	IG		
1793	80	C4	5/5/2021	NO FACILITIES, direct	37.686566	-75.869059					Offshore structure on Scarborough Island.	Accomack	IG		

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# **SECTION C: NONSEWAGE WASTE SITES**

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

## SECTION D: BOATING ACTIVITY

OBJECTIO	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	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
1776	80	R1		BOATING ACTIVITY	37.711881	-75.755510		Conv	Marine	Υ	Onancock town marina, bathroom facility, pump out station, freshwater hookups, electricity.	Accomack	Marina	19	0	1	N	RS
1785	80	R2		BOATING ACTIVITY	37.709349	-75.757804		NA			Private marina.	Accomack	Marina	14	4	3	N	RS
1791	80	R5		BOATING ACTIVITY	37.719500	-75.813694		Conv	Marine	N	East Point Marina. Bathroom facility, freshwater hookups, electricity, pump out box for toilet waste, fuel.	Accomack	Marina	56	12	21	N	RS
1771	80	R7		BOATING ACTIVITY	37.725803	-75.789400		NA	Marine	l N	Poplar Cove Marina. Marina with freshwater hookups, electricity.	Accomack	Marina	12	0	2	N	RS
1774	80	G3		BOATING ACTIVITY	37.713424	-75.754082	Commercial fishing boathouse with boat moorings.	NA		N	Fish House LLC.	Accomack	Under Surveillance	6	0	0	N	RS

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# **SECTION E: CONTRIBUTES ANIMAL POLLUTION**

OBJECTID	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Septic System Type	stem Structure Type		Overall Site Remarks	Locality	DSS Staff
475	80	R3		CONTRIBUTES ANIMAL POLLUTION, indirect	37.703222	-75.780306	2 horses.	Conv	Dwelling	N	Yellow two story house.	Accomack	RS
1768	80	R6		CONTRIBUTES ANIMAL POLLUTION, indirect	37.728151	-75.789427	Multiple horses.	Conv	Agri	N	Multiple pastures, horses, large horse barn.	Accomack	RS

#### **SUMMARY**

Growing Area # 080 Onancock and Matchotank Creeks 14 September 2021

# **SECTION B: SEWAGE POLLUTION SOURCES**

- 1. SEWAGE TREATMENT FACILITIES
  - 1 DIRECT #6
  - 0 INDIRECT None
  - 1 B.1. TOTAL
- 2. ON-SITE SEWAGE DEFICIENCIES Correction of the 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.
  - 3 NO FACILITIES, DIRECT # C2, C3, C4
  - 0 NO FACILITIES, INDIRECT None
  - 3 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
  - 0 DIRECT None.
  - 0 INDIRECT None.
  - 0 C.1. TOTAL
- 2. SOLID WASTE DUMPSITES
  - 0 DIRECT None.
  - 0 INDIRECT None.
  - 0 C.2. TOTAL
- 3. STORMWATER OUTFALLS
  - 0 DIRECT None.
  - <u>0</u> INDIRECT None.
  - 0 C.3. TOTAL

## **SECTION D: BOATING ACTIVITY**

- 4 MARINAS # R1, R2, R5, R7
- 0 OTHER PLACES WHERE BOATS ARE MOORED None.
- 1 UNDER SURVEILLANCE # G3
- 5 D. TOTAL

#### SECTION E: CONTRIBUTES ANIMAL POLLUTION

- 0 DIRECT None.
- 2 INDIRECT # R3, R6
- 2 E. TOTAL



