

COMMONWEALTH of VIRGINIA DEPARTMENT OF HEALTH DIVISION OF SHELLFISH SAFETY

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MESSONGO AND GUILFORD CREEKS Growing Area # 076 Accomack County Shoreline Sanitary Survey

Date: 11 July 2022

Survey Period: November 19, 2021 – April 18, 2022

Total Number of Properties Surveyed and Near Shore Samples Collected: 128

Surveyed By: R. Snead & T. Charnock

SECTION A: GENERAL

This survey area extends from Reference Point 77 at Long Point to Reference point 78 at Ebb point, including the Chesapeake Bay shoreline between these points, Beasley Bay, Back Cove, Back Creek, Messongo Creek (Gum Branch), Rock Gut, Cattail Creek, Great Gut, Muddy Creek, (Rock Gut, Bethel Branch, and Island Field Cove), Old Cove (Bridge Gut and Justis Gut), Brewer Gut, Guilford Creek (Guilford Church Branch and Mill Branch), Young Creek (Jimmy's Gut and Gray Ditch), and all of their tributaries.

The topography of the area is low and marshy, with maximum elevations of 8 feet near the community of Guilford. Marine flooding, and ponding of rainwater are common. The economy is based primarily upon agriculture and seafood production; poultry processing plants along Lankford Highway provide commercial employment. The rural population is relatively sparse with slight concentrations in the communities of Messongo, Hallwood, and Guilford.

The dwellings and businesses throughout the watershed are served by private septic systems. Animal activity is primarily from wildlife, with significant populations of waterfowl, deer, and small game visible during the survey period. Small livestock farms and commercial poultry farms are also present in low numbers.

Meteorological data* indicated that a total of 22.47" of rain fell during the survey period. A monthly breakdown of rainfall is listed below.

Nov. 19-30 0.42" December 1.02" January 2022 3.97" February 1.25" March 3.7" April 1.7" May 4.76" June 1-5 0.43" *Data obtained from NOAA rainfall database station # 76-22.

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 shorelines within the survey boundary were visually inspected to identify potential pollution sources requiring further investigation.

Near-shore Enterococci sampling station locations were established to survey the full extent of waters beyond routine fecal coliform sampling stations. These 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. Sampling station data was 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 Ar	Growing Area # 76 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						
12/13/21	8:23	9:35	12:09-12:45	<10-20	0	0.23	0.27						
12/14/21	9:13	10:31	9:15-11:16	<10-30	0	0	0.27						
12/15/21	9:57	11:19	10:13-12:12	<10-10	0	0	0.27						
12/16/21	10:37	11:59	11:09-11:36	<10-10	0	0	0.27						
3/14/22	10:44	12:04	10:40-12:20	<10-1515	0	0	1.92						
3/15/22	11:29	12:41	11:25-12:56	<10-175	0	0	1.92						
3/28/22	10:26	11:31	11:02-11:41	<10-20	0	0	1.13						
	Total rainfall for nearshore sampling period (12/13/21 - 3/28/22) was 9.48".												

^{*} High tide estimated from Muddy Creek Entrance.

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-virginiapollutant-discharge-elimination-system

Copies of the current condemnation notices and maps are available via the Internet at https://www.vdh.virginia.gov/environmental-health/environmental-health-services/shellfishsafety/

^{**} Slack ebb current estimated from 2.3 NM east of Watts Island.

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

	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Septic System Type	Structure Type	Contact	OVERALL_SI	Locality	DSS Staff	Date of Correction	Correction Notes
368	76	R2		CONTRIBUTES POLLUTION, indirect	37.911761	-75.645606	Broken Septic tank lid, possible effluent, no evidence of correction from last inspection.	Conv	Dwelling	N	2 Story tan vinyl home.	Accomack	RS		
371	76	R3		CONTRIBUTES POLLUTION, indirect	37.916287	-75.638216	Septic tank collapsed, covered with plywood, no evidence of correction since last survey.	Conv	Dwelling	N	Black and white mobile home with addition.	Accomack	RS		
2170	76	C1	5/25/20221	NO FACILITIES, direct	37.906575	-75.673493		NA	Dwelling	N	Green Cabin. Owner contacted previous survey 2012.	Accomack	RS		
2169	76	C2	6/21/20221	NO FACILITIES, direct	37.855125	-75.674112	Cabin with no facilities	NA	Marine	N	Dark Gray cabin with white trim, stainless steel box in ground	Accomack	RS		
376	76	С3	6/21/2022	NO FACILITIES, direct	37.859403	-75.664835	Gray cabin with no septic facilities	NA	Marine	N I	Gray cabin with white trim	Accomack	RS		
4918	76	C4	6/21/2022	NO FACILITIES, direct	37.856003	-75.667306	Brown cedar shake cabin with no evidence of septic facilities	NA	Marine	N	Brown Cedar shake cabin.	Accomack	RS		

SECTION C: NONSEWAGE WASTE SITES

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

	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks		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
495	4 76	R1	16/21/2022	BOATING ACTIVITY	37.903934	-75.683044	Public Boat Ramp with two blue portable privy, two boat ramps, one medium shack with electricity and pipes of unknown origin. Crab shedding floats along side of ramp.	Privy	Marine	NA	Public Boat Ramp.	Accomack	Under Surveillance	4	0	0	N	RS
36	4 76	R9	16/21/2022	BOATING ACTIVITY	37.858663	-75.647485	Gladding Landing Public Boat Ramp	NA	Marine	N		Accomack	Under Surveillance	4	0	0	N	RS
35	s 76	R12	6/22/2022	BOATING ACTIVITY	37.836393	-75.673984		NA	Marine	N		Accomack	Under Surveillance	6	1	2	N	RS
35	76	R13	16/22/2022	BOATING ACTIVITY	37.822948	-75.685211		NA	Marine	N		Accomack	Under Surveillance	4	0	0	N	RS

SECTION E: CONTRIBUTES ANIMAL POLLUTION

	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	DSS Staff
373	76	R4	4/22/2022	CONTRIBUTES ANIMAL POLLUTION, indirect	37.904661	- /5 634500	At least 5 horses in multiple pastures, multiple pens. Unchanged from previous survey.	Conv	Dwelling	N	Two story yellow vinyl house with green shutters.	Accomack	RS
4967	76	R5	5/10/2022	CONTRIBUTES ANIMAL POLLUTION, indirect	37.881096	-75.620394	Multiple Pastures and Stables, Herd of Sheep with access to Messongo Creek. Other livestock present.	Conv	Dwelling	N	Yellow 1.5 Story house with multiple pastures and stables.	Accomack	RS
365	76	R6	5/10/2022	CONTRIBUTES ANIMAL POLLUTION, indirect	37.862307	-75.629848	4 chicken houses, manure shed	NA	Agri	N	Four chicken houses.	Accomack	RS
4968	76	R7	5/10/2022	CONTRIBUTES ANIMAL POLLUTION, indirect	37.861228	-75.627095	Old chicken houses converted to livestock stables and pastures.	Conv	Agri		White two story house, red roof, multiple outbuildings. Old chicken houses converted to livestock stables.	Accomack	RS
357	76	R10	6/17/2022	CONTRIBUTES ANIMAL POLLUTION, indirect	37.821006	-75.668612	Two chicken houses	NA	Agri	N	Two chicken houses.	Accomack	RS
4979	76	R11	6/21/2022	CONTRIBUTES ANIMAL POLLUTION, indirect	37.849663	- /5 634301	20-25 horses and multiple pastures, stables, and fields. Manure is taken to fields by farmers.	Conv	Agri	Y	Kerkaken Acres horse farm.	Accomack	RS

SUMMARY

Growing Area # 076
Messongo and Guilford Creeks
11 July 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 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.
 - 2 CP (Kitchen or Laundry Wastes), INDIRECT # R2, R3
 - 4 NO FACILITIES, DIRECT # C1, C2, C3, C4
 - <u>0</u> NO FACILITIES, INDIRECT None.
 - 6 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 E. TOTAL

SECTION D: BOATING ACTIVITY

- 0 MARINAS None.
- 0 OTHER PLACES WHERE BOATS ARE MOORED None.
- 4 UNDER SURVEILLANCE #R1, R9, R12, R13
- 4 D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

- 0 DIRECT None.
- 6 INDIRECT # R5. R6, R7, R10, R11
- 6 E. TOTAL



