

Department of Health Division of Shellfish Safety

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LITTLE BAY AND ANTIPOISON CREEK Growing Area # 017

Lancaster County
Shoreline Sanitary Survey

Date: 14 February 2019

Survey Period: October 15, 2018 – January 16, 2019

Surveyed By: R.M. Thomas, W.A. McCarty III, & W.I. Barrack III **Total number of properties surveyed and samples analyzed:** 226

SECTION A: GENERAL

This survey area extends from Reference Point 17 at the first point south of Tabbs Creek to Reference Point 18 at North Point, including Fleet's Bay shoreline between these two points, Little Bay [Antipoison Creek (Harper's Creek)], and all of their tributaries.

The topography of the area varies in elevations from 5' or less along the shoreline to a maximum of 20' near the western edge of the survey boundary. The economy is based on agriculture, commercial fishing, recreation and service oriented businesses. The population density is moderate with the heaviest concentrations in eastern White Stone. Most of the properties along the shoreline are vacation homes and are seasonally occupied.

Meteorological data indicated that the area received a total rainfall of 13.50" for the survey period. A monthly breakdown is as follows:

Oct. 15-31, 2018 1.96" November 5.65" December 4.03" Jan. 1-16, 2019 1.86"

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 established 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 pollution sources. Station data were analyzed to compare relative concentrations of fecal indicator bacteria within the waterway to identify potential onshore sources of contamination. Areas with elevated concentrations of fecal indicator bacteria were surveyed onshore using a property-by-property approach. Surveyors interviewed



occupants and examined properties for evidence of pollution sources within the immediate watershed.

Hydrographic data and Ebb current windows are shown in the table below. Maps of the Enterococcus sampling are shown at the conclusion of this report.

	Ar	Ra	ainfall in In	ches			
Sample dates	High Tide	Ebb Current	Sampling time	Enterococcus range (MPN/100ml)	Day of	Previous 48 hours	Previous 72 hours
10/16/18	8 4:03 a 7:16-1:22 10:27-12:33 <10-448		<10-448	0.07	0.03	0.05	
10/30/18	2:44 a	6:05-11:40	10:01-11:46	<10-31	0.00	0.02	0.06
11/1/18	4:46 a	8:34-1:58	9:04-10:50	<10-448	0.00	0.00	0.00
11/13/18	1:36 a	4:44-10:38	9:06-10:30	<10-4,352	0.68	0.50	0.00
11/19/18	6:59 a	10:41-4:12	10:43-12:36	<10-85	0.00	0.00	0.00
12/3/18	6:48 a	10:47-4:09	10:28-1:20	<10-218	0.00	0.04	0.04
12/5/18	8:12 a	12:26-5:48	12:58-2:04	<10-20	0.00	0.00	0.00
12/17/18	5:33 a	9:16-2:48	9:19-11:43	<10-31	0.07	0.49	0.23
1/15/19 4:24		8:37-2:12	9:51-12:01	<10-583	0.00	0.26	1.74

Copies of Bacteriological and Shellfish Closure data are available at the area office for review. This report lists only those properties that have a sanitary deficiency or other environmental significance. "*DIRECT*" indicates that the significant activity or deficiency has a direct impact on shellfish waters. Data reports are made available to local health departments and other agencies to address items that may be out of compliance with their regulatory programs. Copies of VPDES Permits and inspections are available at the Department of Environmental Quality, Tidewater Regional Office (DEQ/TRO).

Copies of the current condemnation notices and maps are available via the Internet at www.vdh.virginia.gov/shellfish/.

SECTION B: SEWAGE POLLUTION SOURCES

OBJECTID	GA #	Field #	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

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SECTION C: NONSEWAGE WASTE SITES

OBJECTID	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
1385	17	W7	11/15/18	INDUSTRIAL WASTES, direct	37.6315	-76.3475	3121 Little Bay Road, White Stone, VA 22578	Commercial shellfish processing plant (VA- 1034SP). Processing wastes and floor drains discharge inot a settling tank, and the overflow drains into a cove leading to Antipoison Creek. VPDES # VAG524039.	Conv	Business	Υ	Pride of Virginia Seafood	Lancaster	WB

SECTION D: BOATING ACTIVITY

OBJECTID	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Address	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
1386	17	W5	11/15/18	BOATING ACTIVITY	37.6287	-76.3527	312 Harper's Creek Drive, White Stone, VA 22578	Available on site are seasonal slips/moorings, electricity, repair, water, solid waste containers. restrooms, dump station, and sewage holding pump out facilites.		Marine	Z	Cully's Railway	Lancaster	Marina	14	2	4	N	WB
1388	17	W1	11/27/18	BOATING ACTIVITY	37.6300	-76.3331	261 Osprey Lane, White Stone, VA 22578	Private pier and residence. Available on site are slips/moorings with restroom facilities at residence.		Marine	N		Lancaster	OPWBM	6	2	0	N	WB
1390	17	W2	11/28/18 [BOATING ACTIVITY	37.6281	-76.3459	202 Antirap Road, White Stone, VA 22578	Menhaden bait company. Available on site are slips/moorings, electricity, solid waste containers and restrooms.		Marine	Υ	Nova Bait Co. & White Stone Oyster Co.	Lancaster	OPWBM	4	2	0	N	WB
1391	17	W3	11/28/18	BOATING ACTIVITY	37.6282		Drive White Stone	Private Community pier. Available on site are 14		Marine	N	Waterman's Wharf Harbor	Lancaster	OPWBM	14	1	0	N	WB
1392	17	W4	11/28/18 [BOATING ACTIVITY	37.6280	-76.3522	•	Available on site are slips/moorings, in-out ramp, water, electricity, solid waste containers, dump station, restroom and vault privy.		Business	Y	Bay Seafood Bait Company	Lancaster	OPWBM	12	1	8	N	WB
1381	17	W9	11/27/18	BOATING ACTIVITY	37.6335			Private boat docking facility. No contact. Available on site are slips/moorings, in-out ramp, electricity and water.	Conv	Dwelling	N		Lancaster	Under Surveillance	16	0	0	N	WB

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SECTION E: CONTRIBUTES ANIMAL POLLUTION

OBJECTID	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
1379	17	W6	12/19/18	CONTRIBUTES ANIMAL POLLUTION, direct	37.6385	-76.3596	227 Farriers Road, White Stone, VA 22578	Present at the time of the survey were 10 horses in approximately 8 acres of fenced pasture. Manure left on ground surface within 25' of cove leading to Antipoison Creek.	Conv	Agri			Lancaster	WB
1382	17	W8		CONTRIBUTES ANIMAL POLLUTION, indirect	37.6346	-76.3368	Drive, White Stone,	Present at the time of the survey were 15+ horses in approximately 6 acres of fenced pasture. Manure is left on ground surface.	Conv	Agri	N		Lancaster	WB

SUMMARY

Growing Area # 017, Little Bay and Antipoison Creek 14 February 2019

SECTION B: SEWAGE POLLUTION SOURCES

- 1. SEWAGE TREATMENT FACILITIES
 - 0 DIRECT None
 - <u>0</u> 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.
 - 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.
 - 0 POTENTIAL POLLUTION None.

SECTION C: NON-SEWAGE WASTE SITES

- 1. INDUSTRIAL WASTE SITES
 - 1 DIRECT # W7
 - 0 INDIRECT None.
 - 1 C.1. TOTAL
- 2. SOLID WASTE SITES
 - 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

- 1 MARINAS # W5
- 4 OTHER PLACES WHERE BOATS ARE MOORED # W1, W2, W3, W4
- 1 UNDER SURVEILLANCE # W9
- 6- D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

- 1 DIRECT # W6
- 1 INDIRECT # W8
- 2 E. TOTAL



