



COMMONWEALTH of VIRGINIA

Department of Health Division of Shellfish Safety

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CHESAPEAKE BAY: LITTLE CREEK TO LYNNHAVEN BAY Growing Area # 069 Shoreline Sanitary Survey City of Virginia Beach

Date: 31 January 2020, *Revised 4 February 2020*

Survey Period: October 10, 2019 – November 26, 2019

Total Number of Properties Inspected and Near-Shore Samples Collected: 29

Surveyors: I.M. Geeson & E.M. Yeargan

SECTION A: GENERAL

This survey area extends from Reference Point 70 at the jetty on the east side of the mouth of Little Creek to Reference Point 71 at the west side of the mouth of Lynnhaven Inlet at the Lesner Bridge, including the Chesapeake Bay shoreline between these two points. The area includes a narrow strip of shoreline between the two reference points.

The entire survey area, including the four islands of the Chesapeake Bay Bridge Tunnel system are served by the Hampton Roads Sanitation District sewerage system with final treatment at the Chesapeake-Elizabeth Treatment Plant located on Shore Drive. HRSD, in cooperation with DEQ and local municipalities, has developed a Sanitary Sewer Overflow Response System to notify VDH and other stakeholders of spills and releases.

The U.S. Department of Defense and the U.S. Navy are the largest employers in the area. Outside of the bases, the area is mostly residential. There is little relief in topography. Elevations rise to approximately 10' at the highest points. The soil consists of sand and sandy loam.

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 <http://www.vdh.virginia.gov/shellfish>.

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

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. No areas of elevated concentrations were identified in the current survey. Had it been deemed necessary, areas with elevated concentrations of fecal indicator bacteria were to be surveyed onshore using a property-by-property approach.

A total precipitation of 5.76 inches fell over the survey period. A monthly breakdown is as follows: October 10-31 3.30" November 1-26 2.46"

Hydrographic data, sampling times and range of enterococcus concentrations measured are shown in the table below.

Growing Area # 69 Nearshore Sampling					Rainfall in Inches		
Sample dates	High Tide	Ebb Current	Sampling Time	Enterococcus range (MNP/100mL)	Day of	Previous 24 hours	Previous 7 days
10/29/2019	9:44	12:10	10:36-11:53	<10-30	0	0	0.22
10/30/2019	10:31	12:58	11:20-12:26	<10-20	0.08	0	0.22

This report lists only those properties that have either 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 survey of the area. Data in report are also made available to local health departments and other agencies to address items that may be out of compliance with their regulatory programs.

Hampton Roads Sanitation District's Chesapeake-Elizabeth Wastewater Treatment Plant is located just west in Growing Area # 068 on Shore Drive with an outfall located offshore also in Growing Area # 068. 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 <http://www.vdh.virginia.gov/shellfish>.

SECTION B: SEWAGE POLLUTION SOURCES

[illegible]

SECTION C: NONSEWAGE WASTE SITES

[illegible]

SECTION D: BOATING ACTIVITY

[illegible]

SECTION E: CONTRIBUTES ANIMAL POLLUTION

[illegible]

SUMMARY

Growing Area # 069

Chesapeake Bay: Little Creek to Lynnhaven Bay

31 January 2020, *Revised 4 February 2020*

SECTION B: SEWAGE POLLUTION SOURCES

1. SEWAGE TREATMENT WORKS

0 – DIRECT – None.

0 – INDIRECT – None.

0 – B.1. TOTAL

2. ON-SITE SEWAGE DEFICIENCIES – Correction of 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.

0 – 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

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

1 – DIRECT – # G17.

0 – INDIRECT – None.

1 – TOTAL

SECTION D: BOATING ACTIVITY

0 – MARINAS – None.

0 – OTHER PLACES WHERE BOATS ARE MOORED – None.

0 – UNDER SURVEILLANCE – None.

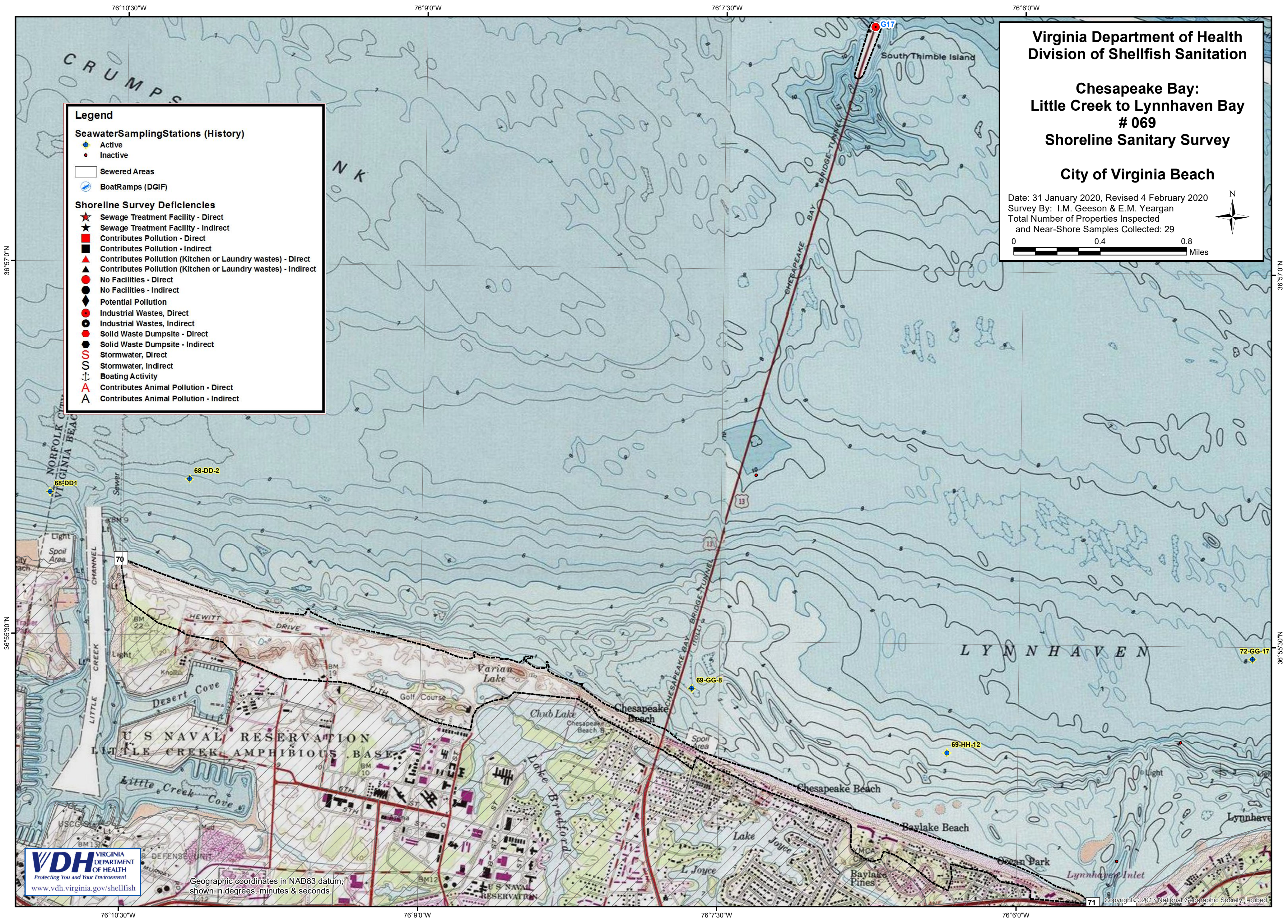
0 – D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

0 – DIRECT – None.

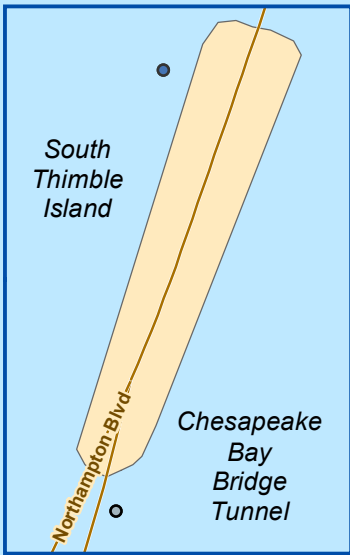
0 – INDIRECT – None.

0 – E. TOTAL



Near-Shore Enterococcus Sampling Growing Area # 069 Chesapeake Bay: Little Creek to Lynnhaven Bay Virginia Beach

* Highest value was 29 on October 29, 2019.



Legend

Enterococcus spp. (MPN/100ml)

- 0 - 10
- 11 - 100
- 101 - 1000
- 1001 - 10000
- > 10001

Seawater Sampling Stations (History)

- Active

