

COMMONWEALTH of VIRGINIA

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HAMPTON ROADS: NANSEMOND RIVER TO ELIZABETH RIVER Growing Area # 064 Cities of Suffolk and Portsmouth Shoreline Sanitary Survey

Date: 20 June 2019 Survey Period: November 6, 2018 – May 24, 2019 Total Number of Properties Surveyed and Samples Analyzed: 119 Surveyed By: F.P. Monis, L.Z. Sakach, and E.M. Yeargan

M. Norman Oliver, MD, MA

State Health Commissioner

SECTION A: GENERAL

This survey area extends from Reference Point 65 at the northwest end of Park Drive at Pig Point to Reference point 66 at the northeast end of Craney Island U.S. Naval Supply Center, including the Hampton Roads shoreline between these two points, Streeter Creek, Hoffler Creek and all of their tributaries.

The topography of this area is characterized by land elevations ranging from mostly marshy along the shorelines of Hampton Roads, Streeter Creek, Hoffler Creek to 15'-20' along the western and southern inland portions.

All properties located within the survey area are served by Hampton Roads Sanitation District sewer system with treatment at the Nansemond Treatment Plant. Considerable commercial development exists in the College Drive area just off I-664 and includes many retail chains as well as several military contract employers.

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.

Meteorological data indicated that the area received a total rainfall of 29.13" during the survey period. A monthly breakdown is as follows:

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Nov. 6-30, 2018	4.28"	January 2019	3.23"	March	3.45"	May	3.71"
December	5.35"	February	4.17"	April	4.94"		

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

	Grov	wing Area # 64 Nears		Rainfall in inches				
Sample dates	High Tide	Ebb Current	it Sampling time range , ,		Previous 24 hours	Previous 7 days		
11/6/2018	7:46	8:12 - 11:49am	10:37 - 11:59am	<10 - 620	0.13	0.31	0.62	
11/7/2018	8:31	8:57 - 12:37pm	10:21 - 12:03pm	10 - 428	0.00	0.13	0.75	
12/4/2019	6:40	7:17 - 10:48am	10:38 - 10:58am	<10 - 98	0.00	0.00	0.00	
3/21/2019	10:15	10:22 - 1:58pm	12:39pm	<10	0.52	0.12	0.44	
4/3/2019 9:00		9:09 - 12:45pm	10:35 – 12:16pm	<10 - 1153	0.00	0.35	0.5	
5/23/2019	NA	Onshore samples	10:17-10:40am	494-640	0.1	0.00	0.78	

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 in this 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. 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 <u>www.vdh.virginia.gov/shellfish</u>.

SECTION B: SEWAGE POLLUTION SOURCES

овл		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
13	95 64	F2	6/25/2019	SEWAGE TREATMENT FACILITY, direct	36.8902		6909 Armistead Road, Suffolk, VA 23435	DEQ VPDES #0081299. Provides secondary treatment at design capacity of 30 MGD. Effluent disinfection and dechlorination prior to discharging to James River.	NA	Business	Y	Nansemond River Wastewater Treatment Plant (HRSD), VPDES # 0081299. Hampton Road Sanitation District, 1436 Air Rail Avenue, Virginia Beach, VA 23455	Suffolk	FM		

SECTION C: NONSEWAGE WASTE SITES

OBJECTIE	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Address	Pollutant Remarks	Septic System Type	n Type Contact		Overall Site Remarks	Locality	DSS Staff
1394	64	F1	6/25/2019	INDUSTRIAL WASTES, direct	36.8943	-76 4232	6904 Armistead Road, Suffolk, VA 23435	Drainage pond runoff from salt, sand, road equipment stored. Pond overflow drains directly into tidal waters.	NA	Business	Y	Virginia Department of Transportation	Suffolk	FM
1397	64	F5	6/25/2019	SOLID WASTE DUMPSITE, indirect	36.8951	-76.3885	4699 Hedgerow Lane, Portsmouth, VA 23703	Handles dredge material from public and private entities engaging in dredge projects around local area and connecting waterways. Spillways located on western side of facility allow water to flow out.	NA	Business	N	Craney Island Dredge Material Management Area. U.S Army Corp of Engineers, 803 Front Street, Norfolk, VA 23510	Portsmouth	FM
1396	64	F6	6/25/2019	SOLID WASTE DUMPSITE, indirect	36.8917	-76.3706	4599 Rivershore Road, Portsmouth, VA 23703	Landfill receives only construction and demolition debris from city projects.	NA	Business	N	Portsmouth City Landfill. U.S Army Corp of Engineers, 803 Front Street, Norfolk, VA 23510	Portsmouth	FM
4618	64	F3	3/29/2019	STORMWATER, indirect	36.8758	-76.4023	3800 Peachwood Drive, Portsmouth, VA 23703	Drainage ditch	NA	NA	N	Drainage ditch.	Portsmouth	FM
4619	64	F4	3/29/2019	STORMWATER, indirect	36.8782	-76 4044	3700 Greenleaf Trail, Portsmouth, VA 23703	Drainage ditch	NA	NA	Ν	Drainage ditch flowing waters.	Portsmouth	FM

SECTION D: BOATING ACTIVITY

OBJECT	GA #	Field #	Deficiency or Pollution Type	Latitude	Longitude	Address	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	-	Number of Wet Slips		Evidence of Live- Aboards	DSS Staff
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SECTION E: CONTRIBUTES ANIMAL POLLUTION

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

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SUMMARY

Growing Area # 064, Hampton Roads: Nansemond River to Elizabeth River 20 June 2019

SECTION B: SEWAGE POLLUTION SOURCES

1. SEWAGE TREATMENT FACILITIES

- 1 DIRECT # F2
- <u>0</u> INDIRECT None.
- 1 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

- 1 DIRECT # F1
- <u>0</u> INDIRECT None.
- 1 C.1. TOTAL

2. SOLID WASTE DUMPSITES

- 0 DIRECT None.
- <u>2</u> INDIRECT # F5, F6
- 2 C.2. TOTAL

3. STORMWATER OUTFALLS

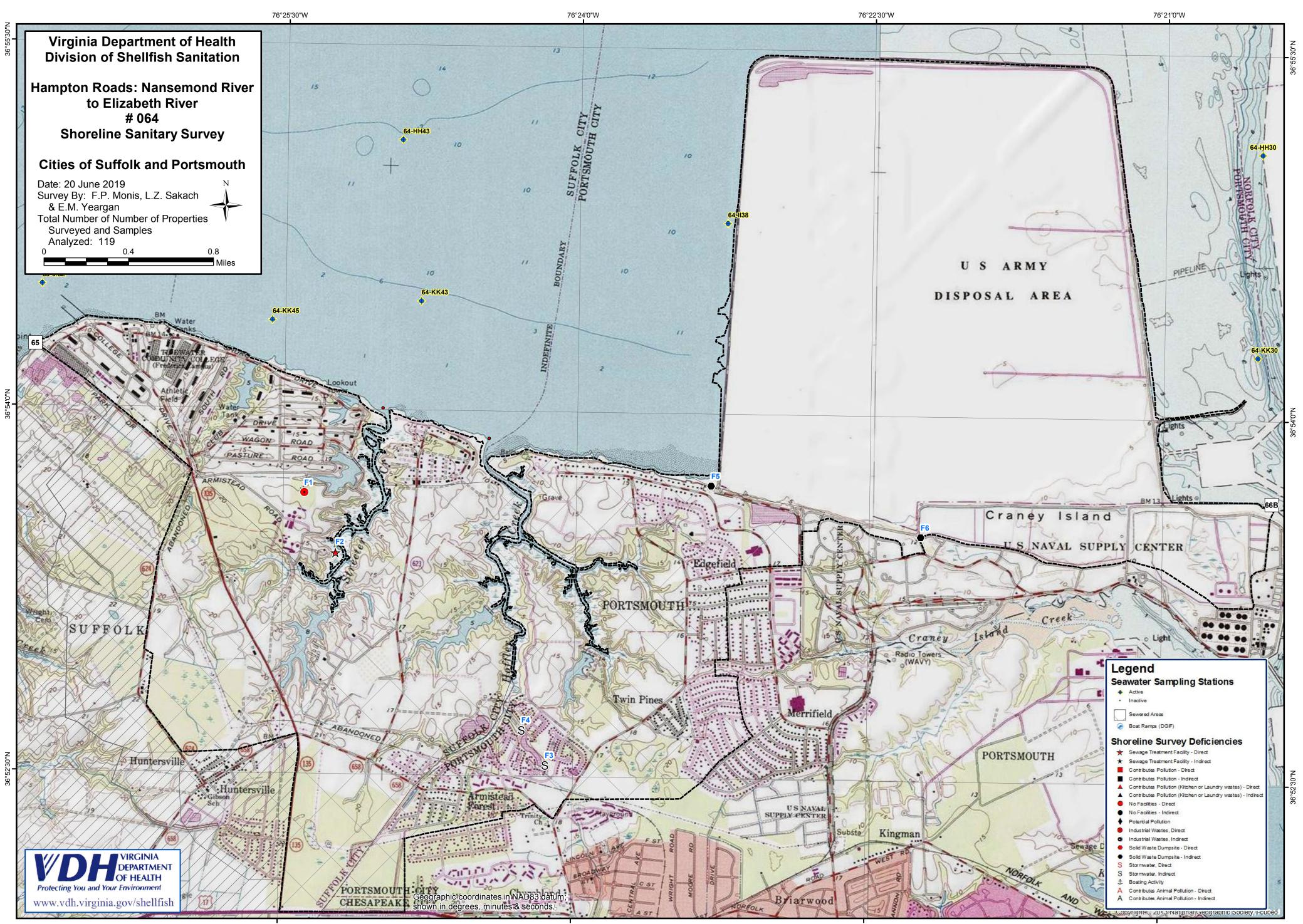
- 0 DIRECT None.
- <u>2</u> INDIRECT # F3, F4
- 2 E. TOTAL

SECTION D: BOATING ACTIVITY

- 0 MARINAS None.
- 0 OTHER PLACES WHERE BOATS ARE MOORED None.
- <u>0</u> UNDER SURVEILLANCE None.
- 0 D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

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



76°24'0"W

76°22'30"W

76°21'0"W

