

### COMMONWEALTH of VIRGINIA DEPARTMENT OF HEALTH DIVISION OF SHELLFISH SANITATION

109 Governor Street, 6th Floor P.O. Box 2448 Richmond, Virginia 23218

Ph: 804-864-7487 Fax: 804-864-7481

### MOBJACK BAY: NEW POINT COMFORT TO EAST RIVER Growing Area # 040 Mathews County Shoreline Sanitary Survey

Date: 20 August 2018 Survey Period: May 22, 2018 – July 13, 2018 Surveyed By: R.M. Thomas, W.A. McCarty III, & W.I. Barrack III Number of Properties and Near Shore Samples Collected: 147

# SECTION A: GENERAL

This survey area extends from Reference Point 40 at New Point Comfort Lighthouse to Reference point 41 at Bay Shore Point, including the Mobjack Bay shoreline between these two points, Deep Creek, Harper Creek, Davis Creek, Pepper Creek, Sloop 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 10' near the northern edge of the survey boundary. The economy of Mathews County is primarily based on health care, retail trade, manufacturing and construction. According to a 2016 US census bureau study, the median household income is \$63,157 with a current unemployment rate of 3.8%. The population is sparse with mostly seasonal cottages on the northern end of the survey area and year round dwellings near Motorun and Bavon at the southern end of the survey area. Since the previous survey, the population of Mathews county has shown a 2.2% decline with an estimated population of 8,782.

Meteorological data indicated that the area received a total rainfall of 8.16" for the survey period. A monthly breakdown is as follows:

May 22-31 1.50" June 5.52" July 1-13 1.14"

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.



Shoreline Survey # 040 Page 2

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.

Area 40 Shoreline survey was unusual in that a few areas in Sloop Creek had extremely high fecal bacteria counts, which required much more intensive investigations both onshore and by water. Usually water sampling requires 2 sets of near shore sampling; however, areas of high bacterial concentration were sampled and analyzed by our lab on 4 different occasions having different previous rainfall accumulations. The last three near shore water sampling events showed very low concentrations of fecal coliform.

Property to property investigations of this area were conducted on five different days. These investigations included taking water samples from nearby ditches, ponds, etc.; evaluating the flow patterns and topography of the area; probing of septic tanks and drain fields on all properties in this area; and making contact with all of the homeowners and residents in this area. No one reported any unusual activity or discernable odors.

Rainfa	all in Inches					
Sample	Run #	High Tide	Ebb Current	Previous	Previous	Previous
dates				24 hours	48 hours	72 hours
5/23/18	1	5:48 am	8:56 – 3:01 pm	0.49	0.68	0.68
5/24/18	1	7:07 am	9:51 – 3:55 pm	0.00	0.49	0.68
6/6/18	2	4:36 am	7:17 – 2:01 pm	0.00	0.00	0.09
6/7/18	2	5:26 am	8:02 – 2:39 pm	0.00	0.00	0.00
6/13/18	Ditches	n/a	n/a	0.03	0.03	0.98
6/18/18	3	2:24 am	5:34 – 11:34 am	0.00	0.00	0.00
6/25/18	Ditches	n/a	n/a	0.00	0.03	1.24
6/25/18	4	9:16 am	11:37 – 5:45 pm	0.00	0.03	1.24

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.

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

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

### SECTION C: NONSEWAGE WASTE SITES

	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
4555	40	W11	5/23/2018	STORMWATER, direct	37.361785	-76.336365	79 Bay Shore Point Road, Port Haywood, VA 23138	12" black corrugated pipe exiting rip rap.	NA	Dwelling	Ν		Mathews	WB

#### SECTION D: BOATING ACTIVITY

	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Address	S 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
1344	40	W9	8/16/2018	BOATING ACTIVITY	37.332188	-76.299210	343 Davis Creek Road, Port Haywood, VA 23138	Available on site are seasonal slips/moorings, 10 dry storage spaces, fuel, electricity, water, solid waste containers, restrooms, dump station and sewage holding tank pumpout facilities.	Conv	Marine	Y	Davis Creek Marina	Mathews	Marina	24	4	8	N	WB
1347	40	W6	8/16/2018	BOATING ACTIVITY	37.333878	-76.299460	End of Southern Sandy Lane, Port Haywood, VA 23138	Commercial Fish Dock. Available on site are seasonal slips/moorings.	NA	Marine	Y	Hudgins Seafood	Mathews	OPWBAM	6	4	0	N	WB
1346	40	W7	8/16/2018	BOATING ACTIVITY	37.333369	-76.299279	Southern Sandy Lane, Port Haywood, VA 23138	Available on site are seasonal slips/moorings, electricity, and water.	Conv	Marine	N	A.J. Hurst Pier	Mathews	OPWBAM	6	0	2	Ν	WB
1345	40	W8	8/16/2018	BOATING ACTIVITY	37.332646		Davis Creek Road, Port Haywood, VA 23138	Available on site is a pier for the loading and unloading of commercial/private vessels. Posted on the pier: "Mooring of vessels overnight is prohibited according to section 12 VAC 5-570- 20."	NA	Marine	N	Public Landing	Mathews	OPWBAM	0	0	0	NA	WB
3054	40	W10	8/16/2018	BOATING ACTIVITY	37.333191		190 Willow Cove Lane, Port Haywood, VA 23138	Available on site are seasonal slips/moorings, 6 dry storage spaces, electricity, water and solid waste containers.	NA	Marine	Y	Jesse Haywood Marina	Mathews	OPWBAM	10	1	0	N	WB
1352	40	W3	8/16/2018	BOATING ACTIVITY	37.334473	-76.299255	197 Dutchmans Road, Port Haywood, VA 23138	Marina no longer in use. Available on site are seasonal slips/moorings and a ramp. Fuel tanks noted on prior shoreline survey have been removed from property.	Conv	Marine	N	William M. Snow Pier	Mathews	Under Surveillance	10	0	0	NA	WB
1351	40	W4	8/16/2018	BOATING ACTIVITY	37.334473	-76.299255	192 Davis Creek Road, Port Haywood, VA 23138	Private boat harbor. Available on site are seasonal slips/moorings, electricity, solid waste containers and restrooms.	Conv	Marine	N	Tommy Cook	Mathews	Under Surveillance	5	2	3	Ν	WB
1350	40	W5	8/16/2018	BOATING ACTIVITY	37.334019	-76.299327	232 Davis Creek Road, Port Haywood, VA 23138	Private boat harbor. Available on site are seasonal slips/moorings, electricity, and solid waste containers.	NA	Marine	Y	Lemuel Brown Pier	Mathews	Under Surveillance	2	1	0	Ν	WB

#### SECTION E: CONTRIBUTES ANIMAL POLLUTION

	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
1354	40	W1	8/16/2018	CONTRIBUTES ANIMAL POLLUTION, indirect	37.344106	-76.307126	Port Haywood, VA	Found on site were 10+ goats, 10+ sheep, and 1 llama. Manure is left on ground surface.	Conv	Dwelling	Ν		Mathews	WB
4573	40	W2	8/16/2018	CONTRIBUTES ANIMAL POLLUTION, indirect	37.342873	-76.303119	Port Haywood VA	Found on site were 5+ sheep. Manure is left on ground surface.	Conv	Dwelling	Y		Mathews	WB

### SUMMARY

Growing Area # 040, MOBJACK BAY: NEW POINT COMFORT TO EAST RIVER 20 August 2018

#### 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.
  - 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.
- <u>0</u> INDIRECT None.
- 0 C.2. TOTAL

# 3. STORMWATER OUTFALLS

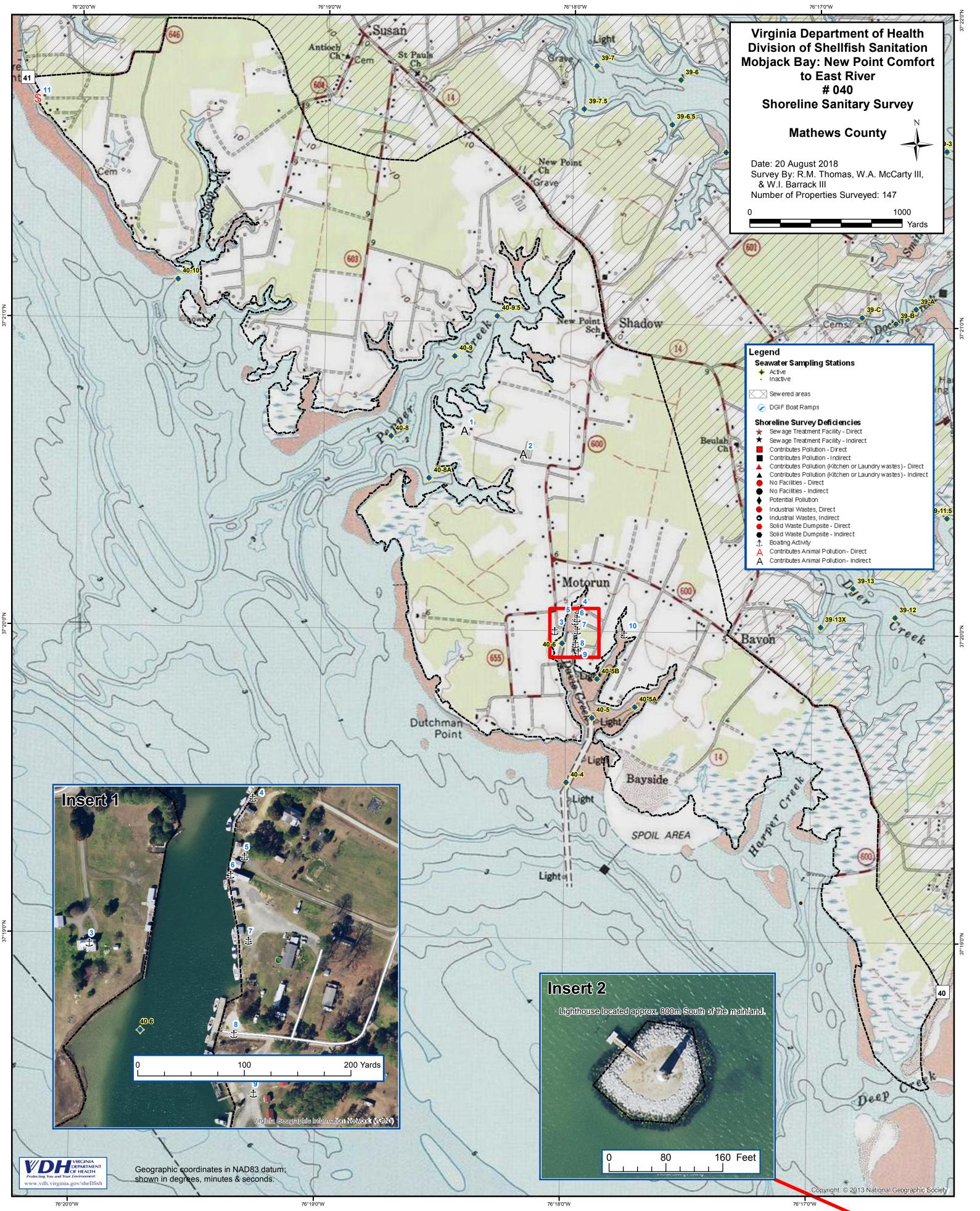
- 1 DIRECT # W11
- <u>0</u> INDIRECT None.
- 1 E. TOTAL

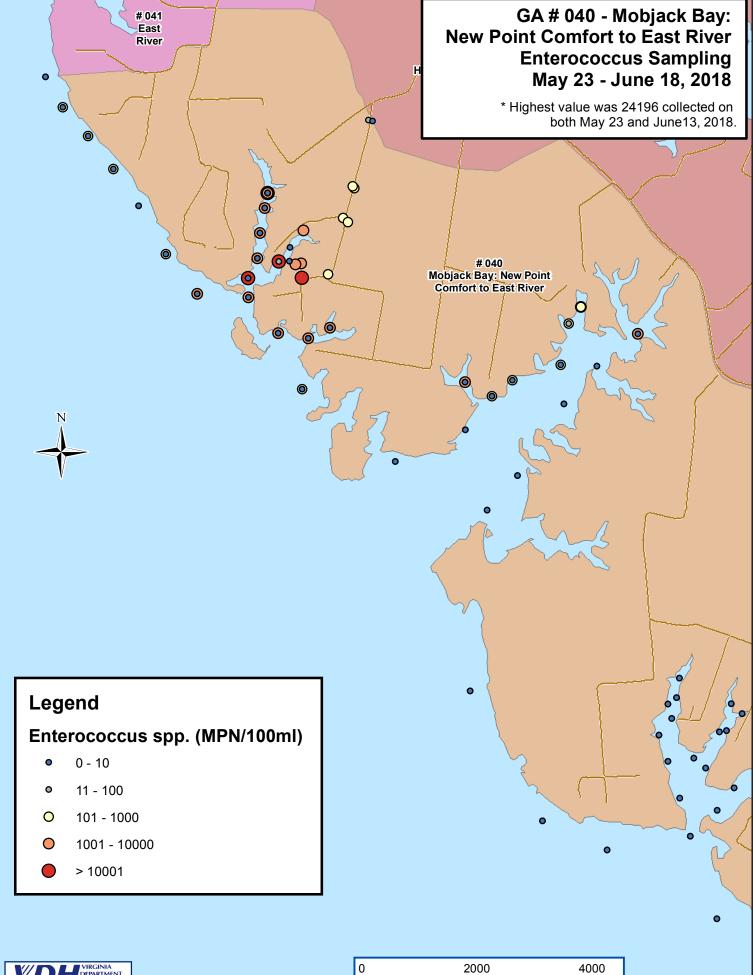
# SECTION D: BOATING ACTIVITY

- 1 MARINAS # W9
- 4 OTHER PLACES WHERE BOATS ARE MOORED # W6, W7, W8, W10
- 3 UNDER SURVEILLANCE # W3, W4, W5
- 8– D. TOTAL

# SECTION E: CONTRIBUTES ANIMAL POLLUTION

- 0 DIRECT None.
- <u>2</u> INDIRECT # W1, W2
- 2 E. TOTAL





VID HOPARTMENT OF HEALTH
Protecting You and Your Environment
www.vdh.virginia.gov/shellfish

