



COMMONWEALTH of VIRGINIA
DEPARTMENT OF HEALTH
DIVISION OF SHELLFISH SANITATION

Marissa J. Levine, MD, MPH, FAAFP
State Health Commissioner

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

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

RAPPAHANNOCK RIVER: WARES WHARF TO TAPPAHANNOCK BRIDGE
GROWING AREA # 026A
ESSEX COUNTY
SHORELINE SANITARY SURVEY

Date: 5 September 2014

Survey Period: July 16, 2014 – August 25, 2014

Total Number of Properties Surveyed: 467

Surveyed By: D.R. Beuchelt

Section A: GENERAL

This survey area begins at Reference Point 26 in Tappahannock, Virginia on Route 360 at the Downing Bridge and ends at Reference Point 27 at the public boat ramp located on Route 611, Wares Wharf Road. Included is the Rappahannock River shoreline and properties between the two reference points as well as Hoskins and Piscataway Creeks and their tributaries within a within a boundary line set by the Division of Shellfish Sanitation (DSS).

The topography of the area surveyed begins at the shoreline and increases to 50 feet near the western edge of the survey boundary line. There are several subdivisions located within the survey area. A portion of the survey area is connected onto the Tappahannock Wastewater Treatment Plant. According to the 2010 U.S. Census, Essex County showed an 11.6% increase in population with a count of 11,151. The economy in the county is based mainly on administrative support, accommodations and food services, health care and construction.

Since the last survey the area has experienced severe weather from hurricanes, and tropical storms. In September 2010 heavy rainfall fell during Tropical Storm Nicole. Hurricane Irene hit the state in 2011 and Hurricane Sandy hit the state during October 28 to 30, 2012. Meteorological data indicated that 4.24 inches of rain fell during this survey. A monthly breakdown is as follows: July 16-31 0.92" August 1-31 3.32"

The Commonwealth of Virginia, under Code Section 9VAC 10-20-120.7, specifies that onsite sewage treatment systems not requiring a Virginia Pollutant Discharge Elimination System (VPDES) permit shall:

- a. Have pump-out accomplished for all systems at least once every five years.*
- (1) If deemed appropriate by local health department and subject to conditions the local health department may set, local governments may offer to the owners of such system, as an alternative to the mandatory pump-out, the option of having a plastic filter installed*

and maintained in the outflow pipe from the septic tank to filter solid material from the effluent while sustaining adequate flow to the drainfield to permit normal use of the septic system. Such a filter should satisfy standards established in the Sewage Handling and Disposal regulations (12VAC5-610) administered by the Virginia Department of Health.

(2) Furthermore, in lieu of requiring proof of septic tank pump-out every five years, local governments may allow owners of on-site sewage treatment systems to submit documentation every five years, certified by a sewage handler permitted by the Virginia Department of Health, that the septic system has been inspected, is functioning properly, and the tank does not need to have the effluent pumped out of it.

Information can be found by contacting county officials via the website at: www.essex-virginia.org/.

Found during the survey were 2 sewage treatment facilities, 2 onsite deficiencies, 4 properties marked as potential deficiencies, 1 industrial site, 1 solid waste site, 8 boating activity sites and 2 sites marked as animal pollution.

Copies of Bacteriological, Hydrographic and Shellfish Closure data are available at the White Stone office for review. Copies of current condemnation notices, maps and a spreadsheet showing corrected deficiencies are available via the internet at www.vdh.virginia.gov/shellfish/.

The report lists only those properties that have a sanitary deficiency or may have other environmental significance. ***DIRECT*** indicates that the significant activity or deficiency may have 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 Sanitation and are available for reference until superseded by a subsequent survey area. Data in the report is also made available to local health departments and other agencies to address items that may be out of compliance with their regulatory programs.

SECTION B: SEWAGE POLLUTION SOURCES

SEWAGE TREATMENT FACILITIES

4. ***DIRECT*** – Town of Tappahannock Wastewater Treatment Plant, 400 Mill Road, Tappahannock 22560. Frankie Sanders, Superintendent Treatment Plant. Class II municipal sewage treatment facility. Design flow of 0.80 MGD. The flow may be increased to 0.95 MGD in the future to accommodate additional growth capacity. Treatment consists of screening; grit removal, flow equalization and sedimentation; Biological Nutrient Removal; clarification; tertiary filtration for TSS and particulate phosphorus removal; chemical feed for alkalinity adjustment; polymer and carbon source addition; UV disinfection; cascade aeration. Sludge is aerobically digested then dewatered and sent to the King and Queen Sanitary Landfill for disposal. The Waste Management Middle Peninsula Landfill located in Glenss, Virginia is used as an alternate disposal landfill. A copy of the most recent DEQ report is filed with the field report. VPDES permit # VA0071471, expires 8/31/2017. Discharge is from outfall serial number 001 to Hoskins Creek.

19. Essex Concrete Corporation, 1777 Howerton Road, Tappahannock 22560. Septage lagoons. 300,000 gallon capacity. Permitted and inspected yearly by Essex County Health Department. Permit No. 128-94-169. *Note: plant is located far upstream of current growing area boundary.*

ON-SITE DEFICIENCIES

6. ***DIRECT*** – CONTRIBUTES POLLUTION – Location: 792 Coleman's Island Road, Tappahannock 22560. Dwelling – 1 story, tan siding with brown shingles and green shutters. No contact. Found onsite was an outside shower which appears to drain down slope via 4" white PVC pipe within 10 feet of the watershed. Sanitary notice issued on 7/21/2014 to Field # 109. Tax Map 32D-1-27.
13. CONTRIBUTES POLLUTION – Location: 395 Clydeside Road, Tappahannock 22560. Dwelling – 1 ½ stories, yellow siding. No contact. Effluent is pooling onto ground surface. Sanitary notice issued on 8/6/2014 to Field # 270. Tax Map 37-182.

POTENTIAL POLLUTION

7. Location: 660 Coleman's Island Road, Tappahannock 22560. Dwelling – 1 story, tan with light gray shingles and white shutters. No contact. Found onsite was an outside shower at the dock which appears to be used to rinse off sand.
9. Location: 166 Wooden Bridge Road, Tappahannock 22560. Dwelling – 2 stories, white with light gray shingles. No contact. Found onsite was an outdoor shower with a concrete floor and drain. A discharge location from the drain could not be found. No signs of discharge at time of survey.
10. Location: 219 Lands End Road, Tappahannock 22560. Dwelling – 1 ½ stories, beige with light gray shingles and blue shutters. No contact. Found onsite was a small black hose which exits the house and empties onto the ground surface. A second hose was found adjacent to the first hose. Origins unknown. No signs of discharge at time of survey.
17. Location: 437 River Place, Dunnsville 22454. Dwelling – 1 ½ stories, white with red metal roof. No contact. Found onsite under the house was a 1" white PVC pipe which discharges within 8 feet to the water shed. Origin unknown. No signs of discharge at time of survey.

SECTION C: NON-SEWAGE WASTE SITES

INDUSTRIAL WASTE SITES

14. Location: 3189 Grandview Drive, Dunnsville 22454. Dwelling – 1 ½ stories, brick with beige trim and brown shutters. Found onsite was a 2000 gallon tank of diesel, a 12000 gallon tank of off road diesel and a 1000 gallon tank of gasoline, all without berms.

SOLID WASTE SITES

12. Location: 23785 Tidewater Trail, Tappahannock 22560. VPPSA – Essex county Brays Fork Convenience Center. Public waste collection and recycling center.

SECTION D: BOATING ACTIVITY

MARINAS

-None-

OTHER PLACES WHERE BOATS ARE MOORED

1. Location: 128 Prince Street, Tappahannock 22560. Riverside Condominiums. Available onsite are 14 seasonal slips/moorings, solid waste containers and restrooms at the condos.
2. Location: 918 South Church Street, Tappahannock 22560. Southside Motel Marina. Available onsite are 8 seasonal slips/moorings, electricity, water, solid waste containers and restrooms.
8. Location: Adjacent to 686, Tappahannock 22560. Community boathouse and services for Riverdale residents. Available onsite are 12 seasonal slips/moorings, ramp, electricity, water and restrooms at residents homes.
15. Location: Adjacent to 3896 Grandview Drive, Dunnsville 22454. Available onsite are 26 seasonal slips/moorings, ramp, solid waste cans and restrooms at residents homes.

UNDER SURVEILLANCE

3. Location: end of Dock Street (Route 1002). Available onsite is a ramp.
5. Location: 1140 Tappahannock Blvd., Tappahannock 22560. Available onsite is 1 mooring for the Rappahannock River cruise boat, electricity, water, and restrooms on boat. Sewage is pumped from the boat directly to town sewer pump station # 5.
11. Location: 514 Piscataway Drive, Tappahannock 22560. Available onsite is a ramp, solid waste container and port-a john.
16. Location: Adjacent to 3334 Grandview Drive, Tappahannock 22560. Available onsite is a ramp used by the residents in the Grandview Drive area.

SECTION E: CONTRIBUTES ANIMAL POLLUTION

14. Location: 3189 Grandview Drive, Dunnsville 22454. Dwelling – 1 ½ stories, brick with beige trim and brown shutters. Contact made with owner. Found onsite were 30 ± hunting dogs. Manure is worked into the ground.
18. Location: 2708 River Stretch, Dunnsville 22454. Dwelling – 1 story, white with black shutters. No contact. Found onsite were hunting dog kennels. Unable to access property to determine number of dogs. Manure disposal unknown.

SUMMARY

Growing Area # 026A
Rappahannock River: Wares Wharf to Tappahannock Bridge
5 September 2014

SECTION B: SEWAGE POLLUTION SOURCES

1. SEWAGE TREATMENT FACILITIES

- 1 – DIRECT – # 4
- 1 – INDIRECT – # 19
- 2 – B.1. TOTAL

2. ON-SITE SEWAGE DEFICIENCIES – Correction of deficiencies in this section is the responsibility of the local health department.

- 1 – CONTRIBUTES POLLUTION, DIRECT – # 6
- 1 – CONTRIBUTES POLLUTION, INDIRECT – # 13
- 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
- 2 – B.2. TOTAL

3. POTENTIAL POLLUTION – Periodic surveillance of these properties will be maintained to determine any status change.

POTENTIAL POLLUTION – # 7, 9, 10, 17

SECTION C: NON-SEWAGE WASTE SITES

1. INDUSTRIAL WASTE SITES

- 0 – DIRECT – None
- 1 – INDIRECT – # 14
- 1 – C.1. TOTAL

2. SOLID WASTE SITES

- 0 – DIRECT – None
- 1 – INDIRECT – # 12
- 1 – C.2. TOTAL

SECTION D: BOATING ACTIVITY

- 0 – MARINA – None
- 4 – OTHER PLACES WHERE BOATS ARE MOORED – # 1, 2, 8, 15
- 4 – UNDER SURVEILLANCE – # 3, 5, 11, 16
- 8 – D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

- 0 – DIRECT – None
- 2 – INDIRECT – # 14, 18
- 2 – E. TOTAL

