



COMMONWEALTH of VIRGINIA

Department of Health
DIVISION OF SHELLFISH SANITATION
109 Governor Street, Room 614-B
Richmond, VA 23219

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

CAPE CHARLES Growing Area # 089 Northampton County Shoreline Sanitary Survey

Date: 13 August 2013
Survey Period: August 2, 2013
Total Number of Properties Surveyed: 17
Surveyed By: S. E. Price

SECTION A: GENERAL

This survey area extends from Reference Point 89 at Washington Avenue in the town of Cape Charles to Reference Point 90 at the Cherrystone Channel south shore light, including the Chesapeake Bay shoreline between these two points, Cape Charles harbor, and all of their tributaries.

The survey area is small in its geographical size and drainage basin. However, the north end of the area is densely populated within the town of Cape Charles, with a resident population of 1,008 full-time residents in 2011, and an estimated 602 part-time residents (2007 data). The portion of the survey area south of Cape Charles Harbor is sparsely populated to unpopulated. Elevations rise sharply from the shore to a maximum of 12', with most regions at 5-10'. The economy is varied with small businesses, a railroad port terminal, a 90 acre concrete products plant, agriculture, seafood, and tourism. A modern marina at Cape Charles Harbor sees boating activity year round, with commercial watermen, sailboats, Coast Guard vessels, and pleasure craft most active during the May–Sept season. A number of community events also occur at this site, attracting moderate numbers of visitors. The Cape Charles Sewage treatment plant serves almost the entire survey area. The town has a storm drainage system that discharges runoff at several outfalls in the survey area. Bay Coast Railroad has a rail yard with a DEQ stormwater permit, but there is no piped outfall, and no industrial waste involved. Development is low, with nine active land-disturb permits during the July-August 2013 period.

Significant changes since the previous survey include:

- Removal of industrial activity by T. & W. Block (DEQ permits are still valid, but there has been no activity since 2009),
- Construction of a new sewage treatment facility for Cape Charles, upgrading the system from a capacity of 0.25 mgd with a peak capacity of 0.75 mgd, to a capacity of 0.5 mgd (1.5 peak mgd),
- Construction of new settling ponds and the elimination of process waste discharge at Bayshore Concrete Products, reducing the DEQ discharge to stormwater only (no industrial waste), and
- Continued decrease in the full-time resident population (11% decline since 2000).

Rainfall for survey period was 0.10", 02-Aug 2013.

The current restriction on shellfish harvesting is Shellfish Area Condemnation Number 089-11, Cape Charles and vicinity, effective 02-Dec 2005 at time of survey publication. 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/>.

Information in this report is gathered by and primarily for use of the Division of Shellfish Sanitation, Virginia Department of Health, in order to fulfill its responsibilities of shellfish growing area supervision and classification. However, the data are made available to various agencies participating in shellfish program coordinated activities or other interested parties. The Engineering Appendix is available from the Richmond Office of the Division of Shellfish Sanitation. Report copies are provided to the local health department for their information and the Department of Environmental Quality, Water Regional Office for classifications listed on the summary page in sections B.1. and C.1.

This report lists only those properties that have 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 Sanitation and are available for reference until superseded by a subsequent survey of the 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

3. ***DIRECT*** – Cape Charles WWTP. Municipal Corp. of Cape Charles, P.O. Box 391, Cape Charles 23310. Has VPDES and Nutrient General permits from DEQ, # VA0021288 and # VAN05001 respectively. Treatment consists of preliminary screening (coarse, vortex grit, and fine screening), a 4-stage Bardenpho configuration followed by membrane filtration, UV disinfection, cascade post aeration, sludge holding tank, and a pressurized dewaterer. Design average daily flow 0.25 MGD. Final disposition of cake sludge in landfill, with liquid outfall to Cape Charles harbor. Most recent DEQ inspection attached.

ON-SITE SEWAGE DEFICIENCIES

-None-

POTENTIAL POLLUTION

-None-

SECTION C: NONSEWAGE WASTE SITES

INDUSTRIAL WASTES

-None-

SOLID WASTE DUMPSITES

-None-

SECTION D: BOATING ACTIVITY

MARINAS

2. Municipal Corporation of Cape Charles, P.O. Box 391, Cape Charles 23310. Public marina. Six employees, 99 seasonal slips/moorings. Present at time of survey were 5 work boats under 26', 11 work boats over 26', 27 pleasure boats under 26', and 21 pleasure boats over 26'. In addition, there were 11 boats in dry storage around the harbor. Boating services provided are fuel, 2 double ramps, electricity, water, and trash receptacles. Sanitary facilities provided are 2 unisex restrooms with toilet, sink, and shower, plus a new facility with both ladies' (4 toilets and 4 handsinks) and men's (urinals, toilets, handsinks, occupied at inspection) restrooms. Boat holding tank pump-out is provided and a sign was in place.

OTHER PLACES WHERE BOATS ARE MOORED

-None-

UNDER SURVEILLANCE

-None-

SECTION E: CONTRIBUTES ANIMAL POLLUTION

1. Charles Town Drive. Public street in planned community that is mostly undeveloped. Present at inspection were >75 resident Canada geese grazing in vacant lots. Street was liberally coated with fresh droppings over an area >100 yards. Nearest water was 30' from grazing flock, with channels enclosed and not draining by obvious means to tidal waters.

SUMMARY

Growing Area # 089
Cape Charles
13 August 2013

SECTION B: SEWAGE POLLUTION SOURCES

1. SEWAGE TREATMENT FACILITIES

- 1 – DIRECT – #3
- 0 – 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 – D.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 DUMPSITES

- 0 – DIRECT – None.
- 0 – INDIRECT – None.
- 0 – C.2. TOTAL

SECTION D: BOATING ACTIVITY

- 1 – MARINAS – # 2
- 0 – OTHER PLACES WHERE BOATS ARE MOORED – None.
- 0 – UNDER SURVEILLANCE – None.
- 1 – D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

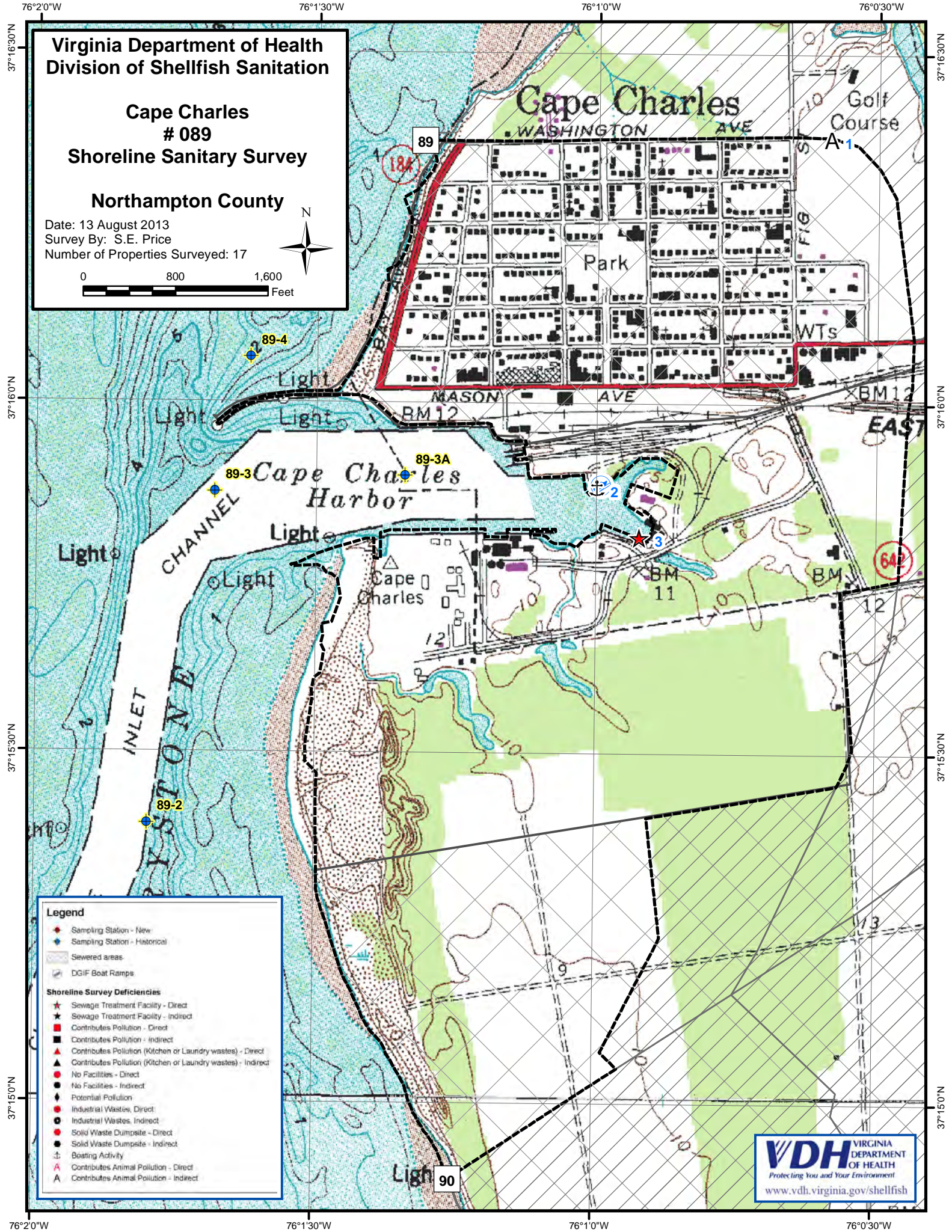
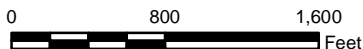
- 0 – DIRECT – None.
- 1 – INDIRECT – #1
- 1 – E. TOTAL

Virginia Department of Health
Division of Shellfish Sanitation

Cape Charles
089
Shoreline Sanitary Survey

Northampton County

Date: 13 August 2013
Survey By: S.E. Price
Number of Properties Surveyed: 17



Legend

- Sampling Station - New
- Sampling Station - Historical
- ▨ Sewered areas
- ⚓ DGIF Boat Ramps
- Shoreline Survey Deficiencies**
- ★ Sewage Treatment Facility - Direct
- ★ Sewage Treatment Facility - Indirect
- Contributes Pollution - Direct
- Contributes Pollution - Indirect
- ▲ Contributes Pollution (Kitchen or Laundry wastes) - Direct
- ▲ Contributes Pollution (Kitchen or Laundry wastes) - Indirect
- No Facilities - Direct
- No Facilities - Indirect
- Potential Pollution
- Industrial Wastes - Direct
- Industrial Wastes - Indirect
- Solid Waste Dumpsite - Direct
- Solid Waste Dumpsite - Indirect
- ⚓ Boating Activity
- ▲ Contributes Animal Pollution - Direct
- ▲ Contributes Animal Pollution - Indirect

