



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

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**TANGIER, GOOSE AND WATTS ISLANDS**  
**Growing Area # 078**  
**Accomack County**  
**Shoreline Sanitary Survey**

**Date:** 24 September 2014

**Survey Date:** July 7 – August 1, 2014

**Total Number of Properties Surveyed:** 63

**Surveyed by:** D.P. Miller and P.H. Widgen

**SECTION A: GENERAL**

The survey area consists of the island groups of Tangier, Goose and Watts Islands. Tangier and Goose Islands are located between Chesapeake Bay and Tangier Sound. Watts Island is located between Tangier Sound and Pocomoke Sound. Tangier Island tributaries are Beach Creek, Cod Harbor, West Ridge Creek, Canton Creek, Mailboat Harbor, Tangier Creek, Oyster Creek Gut, Toms Gut, Fishing Gut, Oyster Creek and all of their tributaries.

All of the islands have very low elevations. The most populated is Tangier with approximately 700 persons. Tangier Island has three ridges on the main island, of which Canton is the highest with an elevation of 10'. The Tangier Island group is the largest of the islands, having low marshlands interlaced with many streams, guts and tidal ponds. A high water table is evident on all of the islands. The economy of Tangier Island is based primarily on seafood harvesting and tourism.

The last completed survey of the area was conducted in 2005. At that time all of Tangier was served by the Tangier Town Sewer System. This sewage treatment facility (property #8) presently serves all of Tangier with a designed capacity of 1,000 persons. (Tangier treatment plant schematic and facility layout are available from the Division central office.) Port Isabel Island separated from Tangier by marsh and tidal waters is not served by the sewage treatment system. A house to house survey on Isabel found no deficiencies for any of the seven properties

There are 49 offshore properties located near or in Mailboat Harbor. Neither of these properties is served by the sewage treatment facility. All of the properties serve as the docking station for the waterman's larger, off-shore bay boats. Many of these properties also serve as crab shedding operations. The Division of Shellfish Sanitation has classified as restricted, all of the waters in Mailboat Harbor and its tributaries.

Information in this report is gathered by and primarily for use of the Division of Shellfish Sanitation, Virginia State 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. Report copies are provided to the local health department for corrective action of deficiencies listed in Sections B and C and the Virginia Water Control Board for classifications listed in Section D. Local health units are not responsible for correction of properties listed in Sections A and D.

Copies for 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 [www.vdh.virginia.gov/shellfish/](http://www.vdh.virginia.gov/shellfish/).

This report lists only those properties which have a sanitary deficiency or have other environmental significance. 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 resurvey of the area.

## **SECTION B: SEWAGE POLLUTION SOURCES**

### **SEWAGE TREATMENT FACILITIES**

8. Town of Tangier, Tangier 23440. Public- sewage treatment facility. Serves approximately 700 persons. Facilities consist of a comminutor with bar screen bypass, aerated grit chamber, flow measurement equipment, surge tanks, aerated 3-day emergency holding pond, dual primary clarifiers, dual biological reactors, dual secondary clarifiers, final 3-day holding pond, and chlorine contact tank. The system is designed for a total average flow of 0.1 mgd or a total equivalent population of 1,000 persons with a peak flow of 0.25 mgd. The sewage system includes 13 pump stations: 8 with grinder pump units and 5 with submersible pumps. Treated effluent is discharged into the Chesapeake Bay from the western shore of the island.

### **ON-SITE SEWAGE DEFICIENCIES**

-None-

### **POTENTIAL POLLUTION**

-None-

## **SECTION C: NONSEWAGE WASTE SITES**

-None-

## **SECTION D: BOATING ACTIVITY**

### **MARINAS**

3. Tangier Oil Co., Dennis K. Crockett, PO Box 246, North Main St., Tangier 23440. Marine - private marina. ? persons. No contact. Can accommodate a maximum of 12 boats. Boating services provided are fuel and electricity. Sanitary facilities provided are 1 commode and 1 lavatory which are served by the Tangier Town sewer system. There are no boat holding tank pump-out facilities provided at this location.

6. Milton Parks, Tangier 23440. Marine - private marina. ? persons. No contact. Can accommodate a maximum of 20 boats. Boating services provided are water and electricity. Sanitary facilities provided are 1 commode, 1 urinal, 1 lavatory, and 1 shower for women, and are served by the Tangier Town sewer system. There are no boat holding tank pump-out facilities provided at this location.

#### **OTHER PLACES WHERE BOATS ARE MOORED**

1. Crockett Boat Yard (Bobby "Bob Bell" Crockett), Tangier 23449. Marine – private pier. ? persons. No Contact. Can accommodate a maximum of 8 boats. The only boating service provided is a marine railway. There are no sanitary facilities and no boat holding tank pump-out facilities provided at this location.
2. Waterfront Inn (Rudy A. Thomas), Box 27, Tangier 23440. Marine – private pier. ? persons. No contact. Can accommodate a maximum of 7 boats. Sanitary facilities provided are 1 commode and 1 lavatory for men; and 1 commode and 1 lavatory for women which is served by the Tangier Town sewer system. There are no boating services and no boat holding tank pump-out facilities provide at this location.
4. Town Boat Dock (Town of Tangier), Tangier 23440. Marine – public boat dock. ? persons. No contact. Can accommodate a maximum of 22 boats. The only boating service provided is electricity. There are no sanitary facilities and no boat holding tank pump-out facilities provided at this location.
5. William Parks Boat Dock (William Parks), Tangier 23440. Marine - private boat dock. ? persons. No contact. Can accommodate a maximum of 8 boats. Sanitary facilities provided are 1 commode and 1 lavatory which are served by the Tangier Town sewer system. There are no boating services and no boat holding tank pump-out facilities provided at this location.
7. Pruitt's Boat Yard, (Jerry F. Pruitt), PO Box 61 Tangier 23440. Marine – private pier. ? persons. No contact. Can accommodate a maximum of 15 boats of length 26'-39'. The only boating service provided is a marine railway. A sanitary facility provided is a pit privy. There is no boat holding tank pump-out facilities provided at this location.

#### **UNDER SURVEILLANCE**

-None

#### **SECTION E: CONTRIBUTES ANIMAL POLLUTION**

-None-

## SUMMARY

Growing Area # 078  
Bayside: Tangier, Goose & Watts Islands  
24 September 2014

### 1. SEWAGE TREATMENT FACILITIES

1 – DIRECT – # 8  
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 – B.2. TOTAL

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

0 – POTENTIAL POLLUTION

### 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

2 – MARINAS – # 3, 6  
5 – OTHER PLACES WHERE BOATS ARE MOORED – # 1, 2, 4, 5, 7  
0 – UNDER SURVEILLANCE – None  
7 – D. TOTAL

### SECTION E: CONTRIBUTES ANIMAL POLLUTION

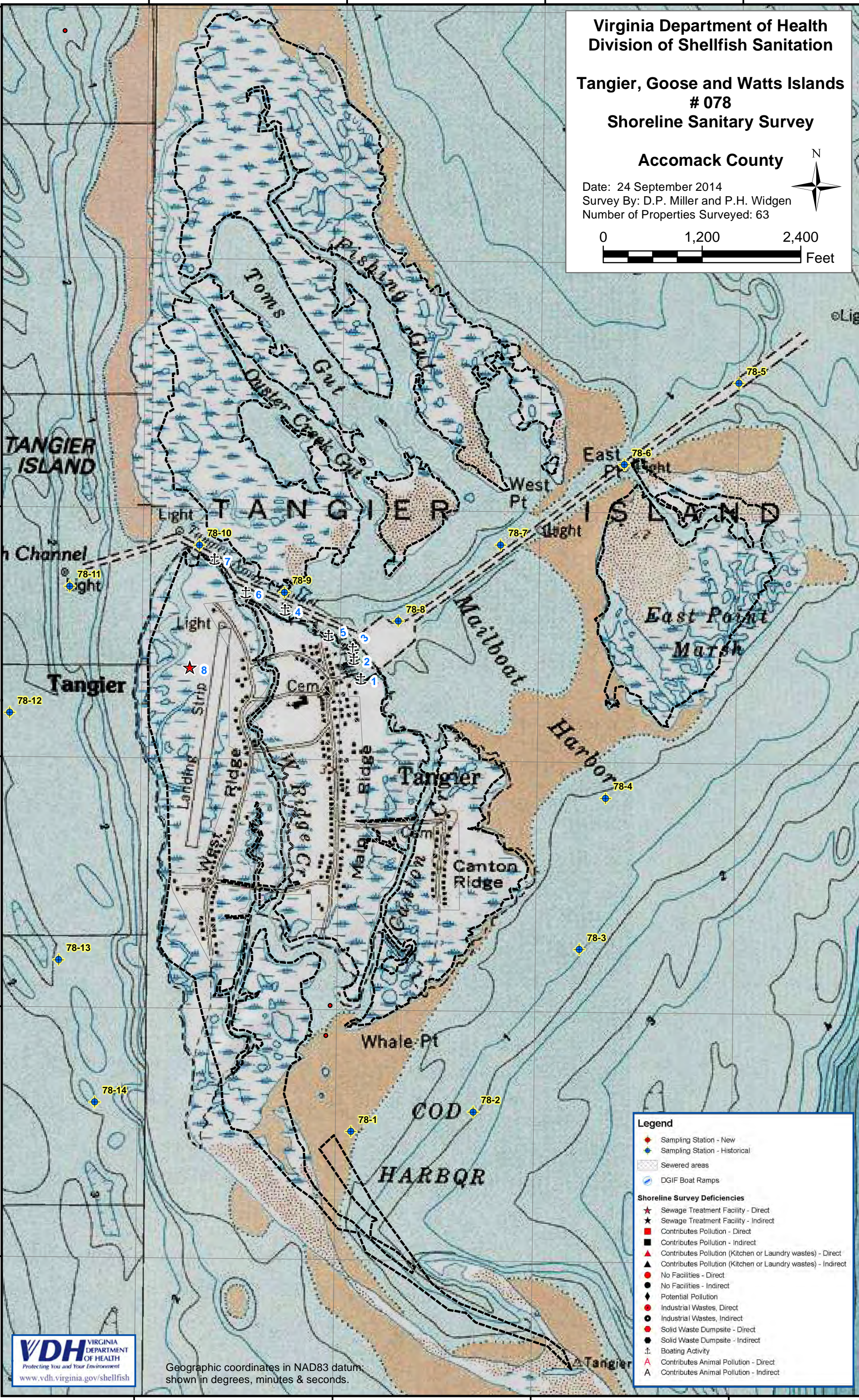
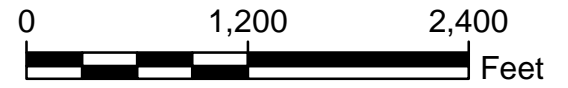
0 – DIRECT – None  
0 – INDIRECT – None  
0 – E. TOTAL

Virginia Department of Health  
Division of Shellfish Sanitation

Tangier, Goose and Watts Islands  
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**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



Geographic coordinates in NAD83 datum shown in degrees, minutes & seconds.