COMMONWEALTH of VIRGINIA
Department of Health
DIVISION OF SHELLFISH SANITATION
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ONANCOCK AND MATCHOTANK CREEKS
Growing Area # 080
Shoreline Sanitary Survey
Accomack County

Date: 17 December 2010
Survey Period: April 23 – October 29, 2010
Total Number of Properties Surveyed: 683
Surveyed By: S.E. Price and S.I. Salido

SECTION A: GENERAL

This survey area extends from Reference Point 80 at Ware Point to Reference Point 81 at West Point, including the Chesapeake Bay shoreline between these two points, Onancock Creek (Poplar Cove, Cedar Creek, North Branch, Central Branch (Joynes Branch), South Branch (Titlow Creek, Warrington Branch), Leatherberry Creek, Finneys Creek, Parkers Creek, and Thicket Creek), Matchotank Creek, Tarkill Creek, and all of their tributaries.

The topography varies in elevation from 0-5' along the shoreline marshes to a maximum of 40' at the inland eastern edge of the survey boundary. The population is moderate with heavier concentrations around the Town of Onancock, and in small waterfront developments between Onancock and Pungoteague Creeks. The economy is heavily agricultural, with a growing seafood industry and a notable degree of tourism and small businesses.

Meteorological data indicated that the area received a total rainfall of 18.71” for the survey period. A monthly breakdown is as follows:

April 23-30	0.82”	July	1.36”	September	4.29”
May	2.59”	August	6.01”	October 1-29	2.40”
June	1.24”				

Significant changes since the previous survey include:

- Town of Onancock municipal sewage system is under renovation, extending its capacity from 0.25 MGD to 0.75 MGD.
- Non-leaking fuel tanks are no longer considered industrial pollution, decreasing the number of industrial pollution sources by 2.
- The Onley Laundromat which is located outside the present survey boundary no longer discharges into storm drains draining to Onancock Creek, but has installed a sand filtration system onsite for processing laundromat washer waste.
- Location 16439 Preston Ln, Onancock, VA is no longer active as a marina and has converted back to a private dock.

This report lists only those properties which 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 resurvey of the area.

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 is made available to various agencies participating in shellfish program coordinated activities and other interested parties.

Report copies are provided to the local health department for corrective action of deficiencies listed on the summary page in Sections 8.2. and 8.3. and the Department of Environmental Quality for possible action at properties listed on the summary page in Sections B.1., C.1. and C.2. The Division of Soil and Water Conservation is provided information on possible sources of animal pollution found in Section E.

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/oehs/shellfish/.

SECTION B: SEWAGE POLLUTION SOURCES

SEWAGE TREATMENT FACILITIES

6. ***DIRECT*** – Town of Onancock Sewage Treatment Works, c/o Sandra Manter, Town Manager, 15 North Street, Onancock 23417. Population served approximately 1387 (2009 est.) with 750 connections. VPDES Permit # VA0021253. Design flow capacity is 0.75 MGD. The old treatment facility is being upgraded to a Membrane Bioreactor, MBR, which is in place according to Chesapeake Bay nutrient phosphorous regulations limiting the levels of nitrogen to 4 mg/L and phosphorous to 0.3 mg/L. The MBR system with fine screening will allow for biological phosphorus removal, which will be further enhanced through chemical addition of ferric chloride and polymer to the treatment process. The MBR configuration will employ 5 stages for treatment: (1) return activated sludge de-aeration/primary anoxic denitrification; (2) anaerobic; (3) oxic nitrification; (4) secondary anoxic denitrification; and (5) membrane filtration (ultra-filtration), followed be re-aeration. Swing zones will provide a way to modify the treatment process in response to seasonal variations. A fine-bubble diffused aeration system will be provided in the aerobic and anaerobic swing zones of each basin. Final effluent is discharged in to the northern branch of Onancock Creek. The most recent OWP/DEQ inspection report is available from the Richmond office of the Division of Shellfish Sanitation.

ON SITE SEWAGE DEFICIENCIES

5. ***DIRECT*** – CONTRIBUTES POLLUTION – Location: Poplar Village Apartments, 23186 Prince Henry Lane, Onancock 23417. Dwelling – 2 story tan vinyl apartments, 6 units. Two 6” pipes of unknown origin with outfall to tidal pond connecting to Poplar Cove and Onancock Creek. Sanitary Notice issued 10-27-10 to field # 14. Tax Map 84-2-A.

10. CONTRIBUTES POLLUTION (Kitchen or Laundry Wastes) – Location: 20393 Fairgrounds Road, Onancock 23417. Dwelling – 2 story white asbestos with pink trim. 3 persons. A white 2" PVC laundry waste pipe discharging to the ground surface. Sanitary Notice issued 7-9-10 to field # 121.

11. CONTRIBUTES POLLUTION (Kitchen or Laundry Wastes) – Location: 9 Fairgrounds Road, Onancock 23417. Dwelling – 2 story white wood frame. 1 person. A white 2" PVC laundry waste pipe discharging to the ground surface. Sanitary Notice issued 7-9-10 to field # 126.

15. CONTRIBUTES POLLUTION (Kitchen or Laundry Wastes) – Location: 18362 Cashville Road, Onancock. Dwelling – 1 1/2 story white aluminum with burgundy shutters. No contact. A white 2" PVC laundry waste pipe discharging to the ground surface. Sanitary Notice issued 9-17-10 to field # 343.

16. CONTRIBUTES POLLUTION (Kitchen or Laundry Wastes) – Location: 18346 Cashville Road, Onancock. Dwelling – 1 story red brick with caramel shutters. No contact. A blue tarp covering ground area above kitchen sink. Sanitary Notice issued 9-17-10 to field # 344.

17. ***DIRECT*** – CONTRIBUTES POLLUTION (Kitchen or Laundry Wastes) – Location: 24352 Nancock Gardens Road, Onancock. Dwelling – 24352 Nancock Gardens Road, Onancock. A 2" PVC pipe exits guest house and enters ground near Onancock Creek. Sanitary Notice issued 9-24-10 to field # 371.

21. ***DIRECT*** – NO FACILITIES – Location: PO Box 178, Pungoteague 23422. Dwelling – hunting cabin on pilings. No contact. No sanitary facilities evident. Sanitary Notice issued 11-15-10 to field # 680. Tax Map 90-A-2.

22. ***DIRECT*** – NO FACILITIES – Location: PO Box 178, Pungoteague 23422. Dwelling – hunting cabin on pilings. No contact. No sanitary facilities evident. Sanitary Notice issued 11-15-10 to field # 681. Tax Map 90-A-3.

23. ***DIRECT*** – NO FACILITIES – Location: PO Box B, West Point 23181. Dwelling – hunting cabin on pilings. No contact. No sanitary facilities evident. Sanitary Notice issued 11-15-10 to field # 682. Tax Map 90-A-5.

POTENTIAL POLLUTION

8. Location: T.W. Block gravel yard, King Street, Onancock. Business – Red frame warehouse with waterfront yards for offloading gravel from barges. No contact.

12. Location: P.O. Box 564, Onancock. Dwelling – 2 story tan vinyl with white trim. No contact. A white 4" PVC pipe of undetermined origin was observed exiting the house, uncapped and unconnected. No evidence of discharge at time of inspection.

18. Location: 24446 Nancock Gardens Road, Onancock. Dwelling –1 story green vinyl with white trim. No contact. Black drain pipe leading out of containment wall in backyard of property exiting into Onancock Creek. No evidence of discharge at time of inspection.

SECTION C: NON-SEWAGE WASTE SITES

INDUSTRIAL WASTES

-None-

SOLID WASTE DUMPSITES

-None-

SECTION D: BOATING ACTIVITY

MARINAS

4. Poplar Cove Village, Route 2, Box 3988, Onancock. Private community marina with 12 slips available. Present at time of survey were 2 pleasure boats under 26'. Boating services provided are water and electricity. Containers are available for solid waste collection. Owner has an exemption to the requirements to provide on-shore sanitary facilities, boat holding tank pump-out facilities and dump station facilities.

9. Onancock Public Dock, 5 King Street, Onancock. Commercial marina with 25 slips available. Present at time of survey were 3 pleasure boats 26-29' and 1 pleasure boat over 40'. Boating services provided are fuel, an in-out ramp, water, electricity, boat holding tank pump-out facilities and dump station facilities. Containers are available for solid waste collection. Sanitary facilities provided are 1 commode, 1 urinal, 1 lavatory and 1 shower for men; and 2 commodes, 1 lavatory and 1 shower for women. Sewage disposal is by connection to Onancock STF.

13. Cedar Point Marina, 2 Meadville Drive, Onancock. Private marina with 12 slips/5 moorings available. No contact. Present at time of survey were 6 pleasure boats under 26' and 6 pleasure boats and 2 work boats 26'-39'. Boating services provided are water and electricity. Containers are available for solid waste collection. Restroom facilities available at resident's home.

19. East Point Marina, end of State Route 767, PO Box 205, Hallwood 23359. Commercial marina with 27 slips available. Present at the time of survey were 10 pleasure boats under 26', 6 pleasure boats 26'-39' and 1 pleasure boat over 40'. Boating services provided are fuel, water and electricity. There are no containers available for solid waste collection. Sanitary facilities are provided with separate men and women's bathrooms. Sewage disposal is by Boggs Water and Sewage, Inc. There are boat holding tank pump-out facilities provided at this location. Dump station facilities have been grandfathered under the *1975 Sanitary Regulations for Marinas and Boat Moorings*.

20. Location: East Point Road, gravel drive after 24111 (911 address), Onancock. Private marina with 7 slips available. Present at time of survey were 5 pleasure boats under 26' and 1 work boat 26'. Water and electricity are provided.

OTHER PLACES WHERE BOATS ARE MOORED

3. Location: End of Route 653 Poplar Cove Road, Onancock. Private pier with 3 moorings available. Boating services provided are unknown.

7. Location: 11 King Street, Onancock. Commercial fishing facility. Present at the time of survey were 6 work boats. Containers are available for solid waste collection. Other boating services available are unknown.

UNDER SURVEILLANCE

-None-

SECTION E: CONTRIBUTES ANIMAL POLLUTION

1. Location: Sunset Bay Training Stables Grey Drive, Onancock. Dwelling – 2 story blue stable. Present at time of survey were 7 horses approximately ¼ mile from Onancock Creek in a fenced pasture. Manure disposal is natural.

2. ***DIRECT*** – Location: 23278 Grey Drive, Onancock. Dwelling – white vinyl siding1-story with red shutters. Present at time of survey were 3 horses 10' from Onancock Creek in a pasture. Pasture will drain to creek.

14. Location: 25170 Warrington Drive, Onancock. Dwelling – 1 story grey/ bright blue, with red trim. Present at time of survey were 25 or more poultry and 14 pigs. Property is located >200 yards from nearest flowing water, a leader feeding into the South Branch of Onancock Creek.

SUMMARY

Area # 080
Onancock and Matchotank Creeks
17 December 2010

SECTION B: SEWAGE POLLUTION SOURCES
1. SEWAGE TREATMENT FACILITIES

1 – DIRECT – # 6
0 – INDIRECT – None
1 – B.1. TOTAL

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

1 – CONTRIBUTES POLLUTION, DIRECT – # 5
0 – CONTRIBUTES POLLUTION, INDIRECT – None
1 – CP (Kitchen or Laundry Wastes), DIRECT – # 17
4 – CP (Kitchen or Laundry Wastes), INDIRECT – # 10, 11, 15, 16
3 – NO FACILITIES, DIRECT – # 21, 22, 23
0 – NO FACILITIES, INDIRECT – None
9 – B.2. TOTAL

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

3 – POTENTIAL POLLUTION – # 9, 12, 18

SECTION C: NON-SEWAGE WASTE SITES
1. INDUSTRIAL WASTE SITES

0 – DIRECT – None
0 – INDIRECT – None
0 – C.1. TOTAL

2. SOLID WASTE DUMPSITES

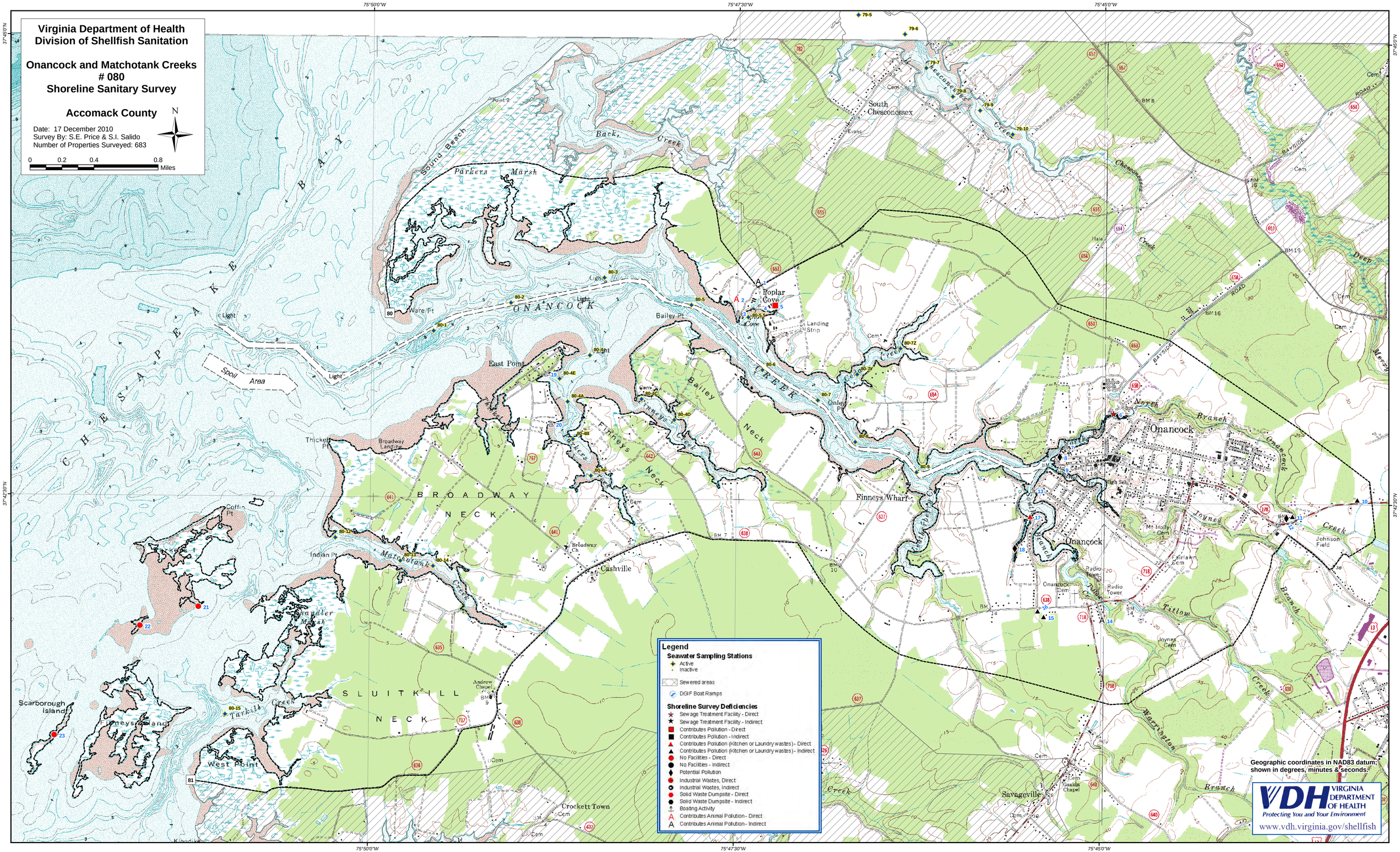
0 – DIRECT – None
0 – INDIRECT – None
0 – C.2. TOTAL

SECTION D: BOATING ACTIVITY

5 – MARINAS – # 4, 9, 13, 19, 20
2 – OTHER PLACES WHERE BOATS ARE MOORED – # 3, 7
0 – UNDER SURVEILLANCE – None
7 – D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

1 – DIRECT – # 2
2 – INDIRECT – # 1, 14
3 – E. TOTAL



Virginia Department of Health
Division of Shellfish Sanitation
Onancock and Matchotank Creeks
080
Shoreline Sanitary Survey
Accomack County
Date: 17 December 2010
Survey By: S.E. Price & S.I. Salido
Number of Properties Surveyed: 683
0 0.2 0.4 0.8 Miles
N
Legend
Seawater Sampling Stations
Active
Inactive
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.
VDH VIRGINIA DEPARTMENT OF HEALTH
Protecting You and Your Environment
www.vdh.virginia.gov/shellfish
75°50'0"W
75°47'30"W
75°45'0"W
37°45'0"N
37°42'30"N
CHESAPEAKE BAY
ONANCOCK CREEK
Sound Beach
Parkers Marsh
Back Creek
South Chesconessex
Poplar Cove
Landing Strip
Bailey Pt
East Point
Spoil Area
Thicket Pt
Broadway Landing
BROADWAY NECK
Finneys Neck
Bailey Neck
Finneys Wharf
Onancock
Cashville
Broadway Ch
Indian Pt
Matchotank Creek
Coffin Pt
Scarborough Island
Finneys Island
Tarkill Creek
West Point
SLUITKILL NECK
Andrew Chapel
Crockett Town
Savageville
Gaskin Chapel
Johnson Field
Titlow Branch
Warrington Creek
Joynes Creek
Mt Holly Cem
Fairlawn Cem
Radio Tower
Onancock Cem
Cem
Light