



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

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**Machipongo River**  
**Growing Area # 096**  
**Accomac and Northampton Counties**  
**Shoreline Sanitary Survey**

**Date:** 8 November 2016

**Survey Period:** November 18, 2015 – October 20, 2016

**Total Number of Properties Surveyed:** 926

**Surveyed By:** B.T. Charnock, R.F. Sloan, & D.P. Miller

**SECTION A: GENERAL**

This survey area extends from Reference Point 95 at a prominent point off the end of Route 608 to Reference Point 96 at a prominent point off the end of Route 622, including the seaside shoreline between these two points and offshore islands, Machipongo River (Upshur Creek, Greens Creek, Parting Creek, and Frogstool Branch), the north shore of Hog Island Bay (Great Machipongo Channel, North Channel, Cunjer Channel, Black Duck Cove, and Tar Bay), North Inlet (Tom's Gut), Quinby Inlet (Chimney Pole Creek, The Straits, Big Camp Channel, The Swash, and Stingaree Point Cove), Sandy Island Channel (Sandy Island Bay with Little Camp Channel, Sloop Channel, Revel Island Cove, and Wreck Island Creek), Bordenstake Bay (South Bordenstake Notch), Upshur bay (Little Gap Channel, Middle Gap Channel, Great Gap Channel, Cackle Creek, White Perch Creek, White Perch Cove, Upshur Creek, Major Hole Bay, Major Hole Creek, Mullet Creek, Wire Creek, and Quinby Harbor), Revel Island Bay (Revel Creek, Bucket Gut), Swash Bay (Powdering Tub Creek, Little Beach Cove, Little Sloop Channel, White Trout Creek, Shell Narrows, Waterhole Creek, Hog Creek, Little Seal Creek, Seal Creek, Green Channel, and Drawing Channel with Jim Bell Gut), Level Pond, Goose Lakes, North Pond, Horseshoe Lead with Clubhouse Gut and Fishpen Gut, the south shore of Wachapreague Inlet, Bradford Channel, and Bradford Bay, (Millstone Creek, Clark Bay, Grassy Creek, and Chalk Pig Gut), and all of their tributaries. The survey boundary has been revised. See final map for the current survey boundary.

The area is characterized by the barrier island Parramore with a sandy beach on the east, marshes on the west, Quinby Inlet on the south and Wachapreague Inlet on the north, an extensive network of offshore marshy islands, tidal flats, bays, channels, creeks, and guts, marshy sections adjacent to the shoreline, a low elevation band extending inland to a line running generally through Willis Wharf, Cats Bridge, Coal Kiln, Mappsburg, Red Hill, Frostool, and Trower communities, and rising to moderate elevations to the center section of the peninsula where the headwaters begin. The population is sparse in the countryside with moderate concentrations in the towns of Nassawadox, Exmore, Painter, Belle Haven, and the communities of Oakland Park, Willis Wharf, Cats Bridge, Coal Kiln, and Quinby. The economy of the area is dependent primarily on seafood and agriculture.

Meteorological data indicated that the area received a total rainfall of 49.15" for the survey period.

A monthly breakdown is as follows:

Nov 18-30 2015	1.37"	March	3.38"	July	5.30"
December	3.26"	April	2.86"	August	1.78"
January 2016	3.00"	May	5.34"	September	8.77"
February	4.90"	June	4.18"	October 1-20	5.01"

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 [www.vdh.virginia.gov/shellfish/](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 by request from the Richmond Office of the Division of Shellfish Sanitation.

Report copies are provided to the local health department for corrective action of deficiencies listed on the summary page in Sections B.2. and B.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.

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.

## SECTION B: SEWAGE POLLUTION SOURCES

FID_1	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	Date of Correction	Correction Notes
38	96	B464	8/31/2016	SEWAGE TREATMENT FACILITY, indirect	37.52739933	-75.81326650	3610 Seaside Road, Exmore, VA 23350	Waste water treatment plant. Single batch reactor, aeration tank, disposed in a subsurface drip irrigation system. This plant was permitted by the local health department.		Business	NA	Waste water treatment plant, Town of Exmore, 3305 Main Street, Exmore, VA 23350	Northampton	BS		
56	96	T271	10/21/2016	CONTRIBUTES POLLUTION, direct	37.57292610	-75.61716023	Northern tip of Parramore Island	Pump station was completely uncovered and septic tank had two holes in the top of the tank.	Conv	Dwelling	N	Nature Conservancy property	Accomack	TC		
17	96	B139	7/27/2016	CONTRIBUTES POLLUTION, indirect	37.49889353	-75.82584543	6056 Seaside Road, Nassawadox, VA 23413	The sewer pipe is not capped.	Conv	Business	NA	Metal building used for firewood processing. Sewage pipe from an old trailer is not capped. Owned by Custis Farms, Phillip R. Custis, PO Box 94, Nassawadox, VA 23413	Northampton	BS		
19	96	B189	8/9/2016	CONTRIBUTES POLLUTION, indirect	37.50973567	-75.80747433	5062 Willis Wharf Road, Exmore, VA 23350	Roof on the vault privy has fallen in.	Privy	Marine	NA	Existing building has fallen into the water. The dock is in disrepair and isn't useable. The roof of the vault privy has fallen into the structure. Owned by Roy Lee Booth Jr., 15052 Shields Bridge Road, Belle Haven, VA 23306	Northampton	BS		
39	96	B515	9/2/2016	CONTRIBUTES POLLUTION, indirect	37.55975570	-75.74151173	35205 Cats Point Lane, Quinby, VA 23423	Septic tank observation port is broken off.	Conv	Dwelling	NA	Empty mobile home lot with the septic tank observation port broken off. Owned by Oak Tree Corporation, 1238 South Lakes End Drive, Unit D, Fort Pierce, FL 34982	Accomack	BS		
50	96	B527	9/7/2016	CONTRIBUTES POLLUTION, indirect	37.54883317	-75.73095467	20305 Harbor Circle, Quinby, VA 23423	The doors are missing on the privy and the tank is open to the elements.	Privy	Business	NA	Daniel E. Murphy, 922 24th Street NW #118, Washington, DC 20008	Accomack	BS		
20	96	B80	8/10/2016	CONTRIBUTES POLLUTION, indirect	37.51390463	-75.80922256	13061 Ballard drive, Exmore, VA 23350	The drain field is failing there is evidence of sewage on top of the septic tank. Owner said that he wants to repair the septic system in the fall.	Conv	Dwelling	Y		Northampton	BS		
11	96	D2	6/20/2016	CONTRIBUTES POLLUTION, indirect	37.58957782	-75.70631697	33072 Bradfords Neck Road, Melfa, VA 23410	Clean out pipe cap damaged by machinery. Damaged cap exposing tank contents to environment.	Conv	Dwelling	Y	Two story white with black shutters. 4 large columns on front.	Accomack	DM		
13	96	D27	6/20/2016	CONTRIBUTES POLLUTION, indirect	37.55861260	-75.73077460	20251 Bundick Lane, Melfa, VA 23410	Unapproved plywood lid on septic tank. Effluent odor detected.	Conv	Dwelling	N	1 story grey bldg with olive shutters.	Accomack	DM		
40	96	T100	9/1/2016	CONTRIBUTES POLLUTION, indirect	37.48437719	-75.78899814	Blue Crab Way, Quinby, VA 23423	Pump station barrier wall broken down at bathhouse.	Conv	Public	N	Virginia Landing RV Campground, 40226 Upshur Neck Rd, Quinby, VA 23423	Accomack	TC		
43	96	T111	9/1/2016	CONTRIBUTES POLLUTION, indirect	37.48389917	-75.78993683	555 Blue Crab Way, Quinby, VA 23423	Uncapped sewage line with noticeable sewage scent. No sewage visible.	Conv	Dwelling	N	Virginia Landing RV Campground, 40226 Upshur Neck Rd, Quinby, VA 23423	Accomack	TC	10/14/2016	RV is no longer on site.
45	96	T115	9/1/2016	CONTRIBUTES POLLUTION, indirect	37.48296467	-75.79027683	504 New York Avenue, Quinby, VA 23423	Uncapped sewage line.	Conv	Dwelling	N	Virginia Landing RV Campground, 40226 Upshur Neck Rd, Quinby, VA 23423	Accomack	TC	10/14/2016	RV is no longer on site.
46	96	T116	9/1/2016	CONTRIBUTES POLLUTION, indirect	37.48316050	-75.79058417	502 New York Avenue, Quinby, VA 23423	Uncapped sewage line.	Conv	Dwelling	N	Virginia Landing RV Campground, 40226 Upshur Neck Rd, Quinby, VA 23423	Accomack	TC		
47	96	T126	9/1/2016	CONTRIBUTES POLLUTION, indirect	37.48183017	-75.79131883	333 Heron Drive, Quinby, VA 23423	Uncapped septic hook up.	Conv	Dwelling	N	Virginia Landing RV Campground, 40226 Upshur Neck Rd, Quinby, VA 23423	Accomack	TC		
49	96	T149	9/2/2016	CONTRIBUTES POLLUTION, indirect	37.48170817	-75.79236850	17117 Oceanside Drive, Quinby, VA 23423	Septic hook up is broken off. Back of shed has what looks like a washer drain pipe running out side of building near a uncapped pipe coming from the ground.	Conv	Dwelling	N	Virginia Landing RV Campground, 40226 Upshur Neck Rd, Quinby, VA 23423	Accomack	TC		
51	96	T175	9/8/2016	CONTRIBUTES POLLUTION, indirect	37.48175400	-75.79308175	41077 Bluefish West, Quinby, VA 23423	Sewage pipe from R.V. Not connected to septic system and is also not capped.	Conv	Dwelling	N	Virginia Landing RV Campground, 40226 Upshur Neck Rd, Quinby, VA 23423	Accomack	TC		
30	96	T23	8/24/2016	CONTRIBUTES POLLUTION, indirect	37.55234101	-75.73559542	35550 Upshurs Neck Road, Quinby, VA 23423	Septic vent pipe not connected.	Conv	Dwelling	N	Vent pipe not connected.	Accomack	TC		
53	96	T232	9/16/2016	CONTRIBUTES POLLUTION, indirect	37.55788020	-75.72924567	35289 Bradfords Neck Road, Quinby, VA 23423	Broken lid on septic tank, making inside waste visible.	Conv	Dwelling	Y		Accomack	TC		

## SECTION B: SEWAGE POLLUTION SOURCES

FID_1	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	Date of Correction	Correction Notes
54	96	T249	9/16/2016	CONTRIBUTES POLLUTION, indirect	37.58882419	-75.70227706	22005 Killmon Lane, Melfa, VA 23410	Cracked clean out pipe on septic tank.	Conv	Dwelling	Y		Accomack	TC		
33	96	T36	8/25/2016	CONTRIBUTES POLLUTION, indirect	37.55017533	-75.74013600	19493 Pefley Drive, Quinby, VA 23423	Concrete Septic tank lid chipped on edge and not s Alex properly.	Conv	Dwelling	N		Accomack	TC		
34	96	T44	8/25/2016	CONTRIBUTES POLLUTION, indirect	37.55174182	-75.74303035	35509 Northam Road, Quinby, VA 23423	Septic clean out in front yard is broken completely off at base.	Conv	Dwelling	N	Septic clean out in front yard is broken completely off at base.	Accomack	TC		
29	96	T5	8/24/2016	CONTRIBUTES POLLUTION, indirect	37.55660210	-75.73154212	35362 Bradfords Neck Road, Melfa, VA 23410	Uncapped septic pipe above septic tank.	Conv	Dwelling	N	Two story House with tan vinyl siding, red shutters, and a brown shingled roof.	Accomack	TC		
36	96	T51	8/25/2016	CONTRIBUTES POLLUTION, indirect	37.55084574	-75.74343122	9398 Northam Road, Quinby, VA 23423	Septic lid missing piece. Appears to be nearly full of liquid.	Conv	Dwelling	Y		Accomack	TC		
18	96	B160	8/8/2016	CONTRIBUTES POLLUTION (Kitchen or Laundry), indirect	37.52041333	-75.81270300	4188 Willis Wharf Road, Exmore, VA 23350	One inch pvc pipe coming out of the back of the house to the ground.	Conv	Dwelling	N	Single story white wood house. One inch white pic pipe exits the back of the house and terminates on the ground. Owned by J.C. Walker Brothers Inc., PO Box 10, Willis Wharf, VA 23486	Northampton	BS		
32	96	B409	8/25/2016	CONTRIBUTES POLLUTION (Kitchen or Laundry), indirect	37.55920353	-75.77453617	35280 Seaside Road, Painter, VA 23420	3 inch PVC pipe terminates at the side of the property	Conv	Dwelling	N	Willie Lee Smith, 35280 Seaside Road, Painter, VA 23420	Accomack	BS		
41	96	T103	9/1/2016	CONTRIBUTES POLLUTION (Kitchen or Laundry), indirect	37.48380779	-75.78954813	575 Delaware Avenue, Quinby, VA 23423	Sewage line uncapped making soil wet underneath.	Conv	Dwelling	N	Virginia Landing RV Campground, 40226 Upshur Neck Rd, Quinby, VA 23423	Accomack	TC	10/14/2016	RV's waste pipe capped.
42	96	T104	9/1/2016	CONTRIBUTES POLLUTION (Kitchen or Laundry), indirect	37.48382667	-75.78948167	574 Delaware Avenue, Quinby, VA 23423	Uncapped sewage line showing evidence of past liquid discharge into a cinder block.	Conv	Dwelling	N	Virginia Landing RV Campground, 40226 Upshur Neck Rd, Quinby, VA 23423	Accomack	TC	10/14/2016	RV's waste pipe capped.
44	96	T113	9/1/2016	CONTRIBUTES POLLUTION (Kitchen or Laundry), indirect	37.48260250	-75.78971333	511 New York Avenue, Quinby, VA 23423	Uncapped sewage line with visible moisture on ground.	Conv	Dwelling	N	Virginia Landing RV Campground, 40226 Upshur Neck Rd, Quinby, VA 23423	Accomack	TC		
48	96	T143	9/2/2016	CONTRIBUTES POLLUTION (Kitchen or Laundry), indirect	37.48102259	-75.79092156	41198 Seagull Drive, Quinby, VA 23423	Laundry water running from back of shed to the ground. Also uncapped pipe sticking out of ground near the back of the shed.	Conv	Dwelling	N	Virginia Landing RV Campground, 40226 Upshur Neck Rd, Quinby, VA 23423	Accomack	TC		
35	96	T49	8/25/2016	CONTRIBUTES POLLUTION (Kitchen or Laundry), indirect	37.54867406	-75.74243102	19440 Holden Drive, Quinby, VA 23423	Pipe coming off back of house from kitchen sink into a bucket.	Conv	Dwelling	Y	Pipe coming off back of house from kitchen sink into a bucket.	Accomack	TC		
37	96	T67	8/26/2016	CONTRIBUTES POLLUTION (Kitchen or Laundry), indirect	37.54777050	-75.73853100	36138 Upshurs Neck Road, Quinby, VA 23423	Pipe coming from back of shed appears to be laundry waste.	Conv	Dwelling	N		Accomack	TC		
0	96	B507	6/20/2016	NO FACILITIES, direct	37.56543615	-75.74396074	19466 Quinby Bridge Road, Melfa, VA 23410	Crab shedding operation with no facilities.	NA	Business	N		Accomack	BS		
1	96	B508	6/20/2016	NO FACILITIES, direct	37.56491946	-75.74337873	19490 Quinby Bridge Road, Melfa, VA 23410		NA	Business	N	Mark Wallace, PO Box 55, 20193 Quinby Bridge Road, Quinby, VA 23423	Accomack	BS		
31	96	T25	8/24/2016	POTENTIAL POLLUTION	37.55189199	-75.73574847	Upshurs Neck Road, Quinby, VA 23423	Multiple travel trailers, boats, propane tanks, fuel/oil containers.	NA	Dwelling	N		Accomack	TC		

## SECTION C: NONSEWAGE WASTE SITES

FID_1	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
55	96	T238	9/20/2016	INDUSTRIAL WASTES, indirect	37.57179330	-75.71586668	34247 Bradfords Neck Road, Quinby, VA 23423	Facility uses approximately 5,000 gallons of water per day. This volume is below the threshold that would require a permit from DEQ.	NA	Business	Y	Fish aquaculture facility.	Accomack	TC

## SECTION D: BOATING ACTIVITY

FID_1	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Address	Pollutant Remarks	Septic System Type	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
22	96	B204	8/10/2016	BOATING ACTIVITY	37.50915038	-75.80636817	5089 Willis Wharf Road, Exmore, VA 23350	There is an in-out ramp.	Privy	Marine	NA	Willis Wharf Boat Harbor	Northampton	Marina	61	4	3	N	BS
23	96	B205	8/10/2016	BOATING ACTIVITY	37.51050250	-75.80651345	5039 Willis Wharf Road, Exmore, VA 23350	Marina for Company boats.	Privy	Marine	NA	Shellfish shucker-packer facility.	Northampton	Marina	16	3	1	N	BS
27	96	B209	8/10/2016	BOATING ACTIVITY	37.51433678	-75.80631727	4483 Willis Wharf Road, Exmore, VA 23350	Aquaculture facility	Privy	Business	NA	Shellfish shucker packer facility	Northampton	Marina	6	1	0	N	BS
9	96	B525	6/20/2016	BOATING ACTIVITY	37.54896141	-75.73261980	Harbor Point Road, Quinby, VA 23423	Public marina	Privy	Marine	NA	Public marina, Quinby Public Harbor, Accomack County, 23296 Courthouse Avenue, Accomac, VA 23301	Accomack	Marina	88	19	3	N	BS
52	96	T222	9/9/2016	BOATING ACTIVITY	37.48061457	-75.79844277	no address defined	Southern dock not being maintained, making old slips unusable. Fresh water is available, no visible pump out station, bathroom facilities are in near by "adult recreational building",and has boat ramp.	Conv	Marine	N	Virginia Landing RV Campground, 40226 Upshur Neck Rd, Quinby, VA 23423	Accomack	Marina	7	0	0	N	TC
10	96	508	6/20/2016	BOATING ACTIVITY	37.56491946	-75.74337873	19490 Quinby Bridge Road, Melfa, VA 23410		NA	Marine	NA	Mark Wallace, PO Box 55, 20193 Quinby Bridge Road, Quinby, VA 23423	Accomack	Under Surv	0	0	0	N	BS
21	96	B203	8/10/2016	BOATING ACTIVITY	37.50705735	-75.80517304	5179 Willis Wharf Road, Exmore, VA 23350	Aquaculture facility. There are no boating services and no boat holding tank facilities provided at this location. One vault privy is available.	Privy	Business	NA		Northampton	Under Surv	0	0	0	N	BS
24	96	B206	8/10/2016	BOATING ACTIVITY	37.51187433	-75.80672267	4553 Willis Wharf Road, Exmore, VA 23350		Conv	Business	NA	Cherrystone Aquafarms, PO Box 437, Cheriton, VA 23316	Northampton	Under Surv	5	0	0	N	BS
25	96	B207	8/10/2016	BOATING ACTIVITY	37.51371067	-75.80673650	4509 Willis Wharf Road, Exmore, VA 23350		Conv	Business	NA	Aquaculture facility with a dock. Owned by J.C. Walker Brothers, PO Box 10, Willis Wharf, VA 23486	Northampton	Under Surv	3	0	0	N	BS
26	96	B208	8/10/2016	BOATING ACTIVITY	37.51424010	-75.80652537	4495 Willis Wharf Road, Exmore, VA 23350	Marine railway with no facilities	NA	Business	NA		Northampton	Under Surv	3	0	0	N	BS
14	96	B6	6/20/2016	BOATING ACTIVITY	37.47468846	-75.82220261	Brownsville Road, Nassawadox, VA 23413		NA	Marine	NA	Nature Conservancy	Northampton	Under Surv	3	3	0	N	BS



## SUMMARY

Growing Area # 096  
Machipongo River  
8 November 2016

### SECTION B: SEWAGE POLLUTION SOURCES

#### 1. SEWAGE TREATMENT FACILITIES

0 – DIRECT – None  
1 – INDIRECT – # B464  
1 – 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 – # T271  
21 – CONTRIBUTES POLLUTION, INDIRECT – # B80, B139, B189, B515, B527, D2, D27, T5, T23, T36, T44, T51, T100, T111, T115, T116, T126, T149, T175, T232, T249  
0 – CP (Kitchen or Laundry Wastes), DIRECT – None  
8 – CP (Kitchen or Laundry Wastes), INDIRECT – # B160, B409, T49, T67, T103, T104, T113, T143  
2 – NO FACILITIES, DIRECT – # B507, B508  
0 – NO FACILITIES, INDIRECT – None  
32 – B.2. TOTAL

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

1 – POTENTIAL POLLUTION – # T25

### SECTION C: NON-SEWAGE WASTE SITES

#### 1. INDUSTRIAL WASTE SITES

0 – DIRECT – None.  
1 – INDIRECT – # T238  
1 – C.1. TOTAL

#### 2. SOLID WASTE DUMPSITES

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

### SECTION D: BOATING ACTIVITY

5 – MARINAS – # B204, B205, B209, B525, T222  
0 – OTHER PLACES WHERE BOATS ARE MOORED – None.  
6 – UNDER SURVEILLANCE – # B6, B203, B206, B207, B208, 508  
11 – D. TOTAL

### SECTION E: CONTRIBUTES ANIMAL POLLUTION

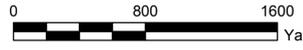
0 – DIRECT – None  
4 – INDIRECT – # B136, B348, B73, D18  
4 – E. TOTAL

Virginia Department of Health  
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# 096  
Shoreline Sanitary Survey

Accomack and  
Northampton Counties

Date: 8 November 2016  
Survey By: B.T. Charnock, R.F. Sloan,  
& D.P. Miller  
Number of Properties Surveyed: 926



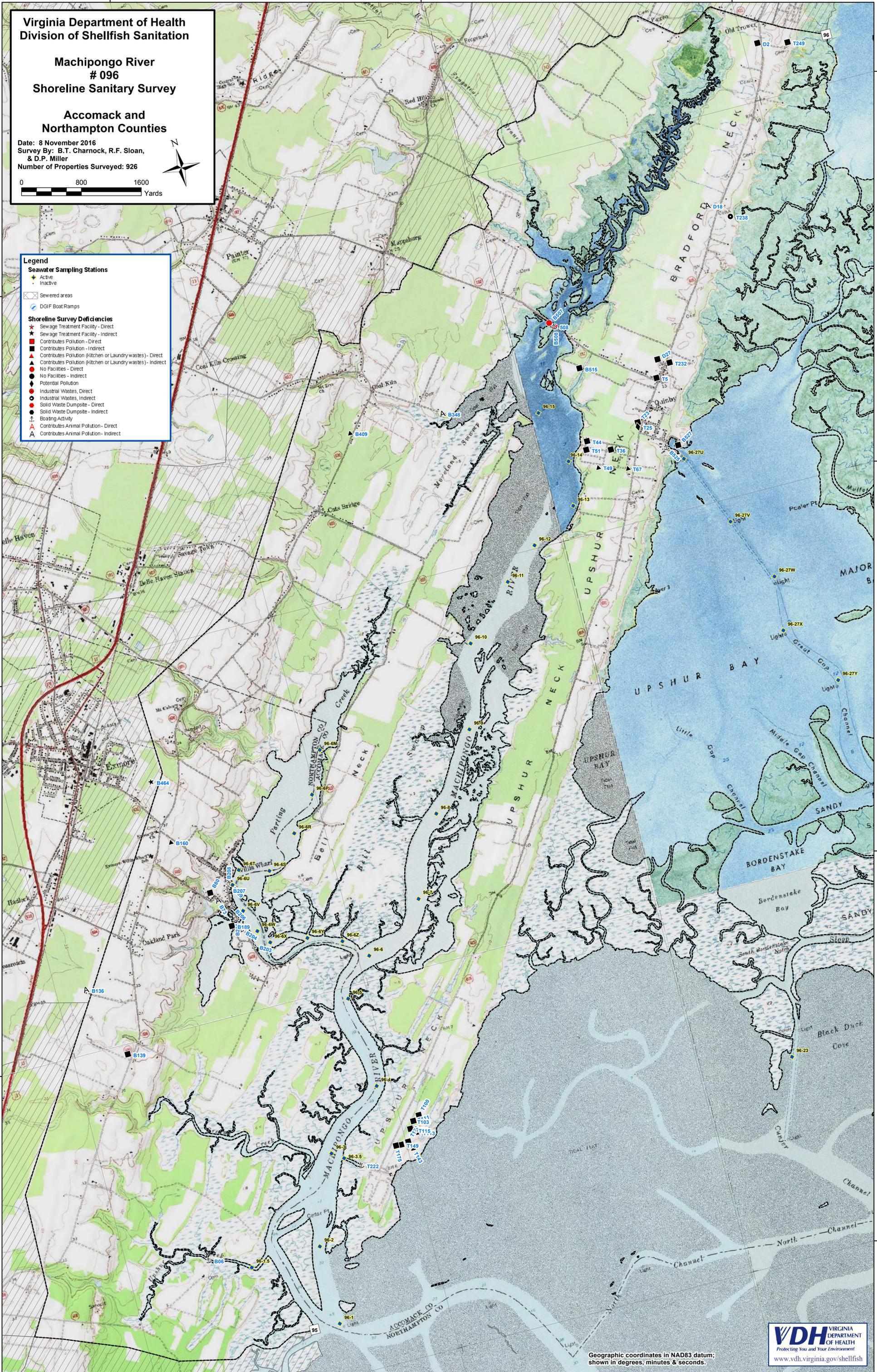
**Legend**

**Seawater Sampling Stations**

- Active (Yellow star)
- Inactive (Black star)

**Shoreline Survey Deficiencies**

- Sewerage Treatment Facility - Direct (Red star)
- Sewerage Treatment Facility - Indirect (Black star)
- Contributes Pollution - Direct (Red square)
- Contributes Pollution - Indirect (Black square)
- Contributes Pollution (Kitchen or Laundry wastes) - Direct (Red triangle)
- Contributes Pollution (Kitchen or Laundry wastes) - Indirect (Black triangle)
- No Facilities - Direct (Red circle)
- No Facilities - Indirect (Black circle)
- Potential Pollution (Red diamond)
- Industrial Wastes, Direct (Red diamond)
- Industrial Wastes, Indirect (Black diamond)
- Solid Waste Dumpsite - Direct (Red circle with dot)
- Solid Waste Dumpsite - Indirect (Black circle with dot)
- Boating Activity (Red triangle with dot)
- Contributes Animal Pollution - Direct (Red circle with dot)
- Contributes Animal Pollution - Indirect (Black circle with dot)



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

