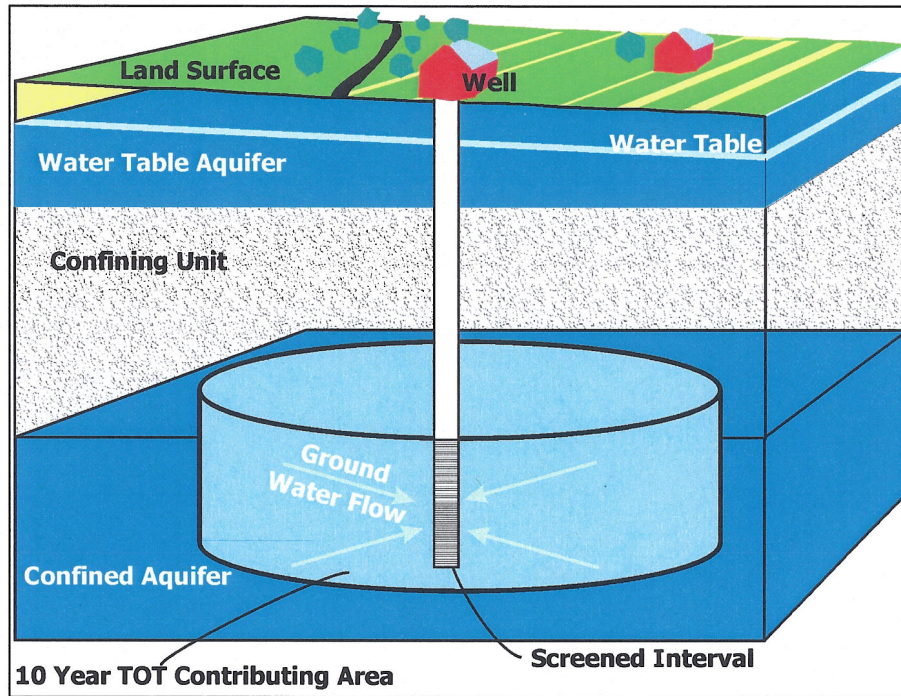


**SOURCE WATER ASSESSMENT
FOR
CALVERT COUNTY, MD**



**Prepared By
Water Management Administration
Water Supply Program
December 2005**



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SUMMARY

The Maryland Department of the Environment's Water Supply Program (WSP) has conducted a Source Water Assessment for one hundred and forty one transient noncommunity water systems in Calvert County. The required components of this report as described in Maryland's Source Water Assessment Program (SWAP) are: 1) delineation of an area that contributes water to the source; 2) identification of potential sources of contamination; and 3) determination of the susceptibility of the water supply to contamination. Recommendations for protecting the drinking water supply conclude this report.

Confined aquifers protect water supplies from contaminants originating on the land surface. Transient water supply systems in Calvert County use only confined aquifers. One hundred forty nine wells supply the one hundred forty one transient systems in Calvert County. Through investigation of MDE records and interviewing system owners, it was concluded that all of these are completed in confined aquifers.

The WSP reviewed water quality results, along with the presence of potential sources of contamination within the individual assessment area, the integrity of the system's well, and the inherent vulnerability of the aquifer. None of the transient systems are susceptible to volatile organic compounds or nitrate/nitrite; however, some systems are susceptible to microbiological contaminants through well construction deficiencies. The sanitary integrity of the water supply systems should be maintained by following the protection recommendations at the end of this report to individual water system owners and county officials. These include disinfecting the well and/or system after any work is performed, replacing deficient well caps with two-piece caps, caulking the electrical conduits and continuing regular inspections of the water system.

INTRODUCTION

The Water Supply Program (WSP) has conducted a Source Water Assessment for one hundred and forty-one transient noncommunity water systems in Calvert County. As defined in Maryland's Source Water Assessment Plan (SWAP), a transient noncommunity water system is any noncommunity water system that does not regularly serve at least twenty-five of the same individuals over six months per year. Some good examples of transient water systems include hotels, restaurants, parks, fire departments, and churches. Figure 1 shows where each of the transient systems is located in Calvert County.

The transient systems must sample for two contaminants. The first is total coliform bacteria, which is an indicator that other microbiological contaminants could be in the water supply. Systems are required to test for coliform organisms regularly. Additional sampling is required for fecal coliform and at other sample taps following positive total coliform results. The second contaminant is nitrogen in the form of nitrate or nitrite. This SWAP report will focus on these two contaminants, but will address other obvious potential sources of contamination.

Calvert County is located in the Southern portion of the State and is located in the Coastal Plain physiographic province. The Coastal Plain, geologically the youngest province in Maryland, covers nearly half of the State and consists entirely of unconsolidated sediments. All of the transient water supplies obtain their water from wells of various size and depth. All of these wells are completed in confined aquifers. Depth of well, lithology, and nitrate data were used to determine whether the wells are completed in confined or unconfined aquifers. An accurate determination of the aquifer type is very important because no assessment area needs to be defined for systems using confined aquifers.

WELL INFORMATION

Well information for each system was obtained from the WSP's database, owner interviews, site visits accompanied by the system engineer for the county, well completion reports, sanitary survey inspection reports, and published reports. A total of one hundred forty-nine wells are used by the one hundred forty-one transient systems assessed in this report. The well tag number, which provides vital well information, was found for one-hundred twenty seven of the one hundred forty-nine wells that are being used by the systems (Table 1). From the well tag information, ground water appropriation data, and with the nitrate sampling data it was concluded that all of the wells are completed in confined aquifers (Aquifer code "C") and none of the wells were completed in unconfined aquifers (Aquifer code "U"). Table 1 contains a summary of the well information for each system.

The well information that was available at the start of this project for the transient systems in Calvert County needed to be supplemented with additional research in order to perform the Source Water Assessment for the county. Using this information, it was

determined that eighty of the wells were completed in confined aquifers. After field investigations, interviews with the system owners, and reviewing the nitrate data for the other wells, it was determined that all of the wells were confined. Well tags were found for an additional forty-seven wells through field observations. Well locations were taken with a GPS unit at the transient systems that required fieldwork. The other wells were located by using both the county sanitary survey and aerial photos. Information was found that at least one hundred twenty four of the one hundred forty-nine wells were completed after 1973, which is when the State adopted the well completion standards for wells.

HYDROGEOLOGY

Ground water flows through pores between gravel, sand, and silt grains in unconsolidated sedimentary aquifers such as those used by the transient non-community water systems in Calvert County. An aquifer is any formation that is capable of yielding a significant amount of water. A confining unit is a layer generally composed of fine material such as clay and silt, which transmits relatively very little water. Confined aquifers are those formations that are overlain by a confining unit. Confined aquifers are recharged from the water stored in the confining unit above and from precipitation that infiltrates into the formation where it is exposed at the surface. Due to the depth and areal extent of the unconsolidated sediments in Southern Maryland, water stored in these aquifers is very old and the water pumped from wells in these aquifers has generally traveled great distances from its origin at the land surface. (DNR, 1987)

Calvert County lies within the Atlantic Coastal Plain physiographic province, which is characterized by low topography due to the underlying horizontal sedimentary layers. This province, which in Maryland includes roughly the area east of Interstate 95, is underlain by unconsolidated clastic sediments of Lower Cretaceous to recent age, which thicken to the southeast. In Calvert County, the transient non-community system wells draw water from the Piney Point/Nanjemoy aquifer, the Aquia aquifer and the Magothy aquifer. (DNR, 1987)

Piney Point (124E)

The Piney Point/Nanjemoy system is a significant aquifer used by transient non-community water systems in Calvert County due to its accessibility at relatively shallow depths, its generally good transmissivity, and its good water quality. The top of the aquifer in Calvert County ranges from fifty feet below sea level near the northern tip of the county, where its limited thickness prohibits its use, to approximately two-hundred fifty feet below sea level at the southeastern end of the county. The Piney Point/Nanjemoy does not crop out at the surface in Maryland and is overlain by the Chesapeake Group sediments, which vary in thickness depending on the geographic location. The Piney Point/Nanjemoy formation is composed primarily of quartz sand, glauconite, and shell fragments. Clay content tends to increase towards the bottom of the formation. The effective thickness (the thickness of the sandy portion of the formation that produces water) of the Piney Point/Nanjemoy in Calvert County ranges from

approximately zero to eighty feet. Transmissivity values, estimated by modeling and aquifer tests, range from less than one hundred to five hundred feet squared per day, and are highest near Solomons in the southern part of the County. (MDE, 2004)

Aquia Aquifer (125B)

The Aquia aquifer is used by a large number of transient non-community water systems in Calvert County due to its accessibility in the northern half of the County, its high transmissivity, and its relatively good water quality. The top of the Aquia aquifer in Calvert County ranges from one-hundred twenty-five feet below sea level near the northern tip of the County to approximately four-hundred fifty feet below sea level at the southern end of the County near Solomons Island. The Aquia is overlain by the Nanjemoy formation, which acts as a leaky confining unit, and is between one hundred and two hundred feet thick depending on the geographic location. The Aquia is composed of fine to medium-grained sands, of varying composition but are generally quartz and glauconite rich with calcite cementation. Shell material is more abundant in the upper portion of the aquifer. Transmissivity values, as determined by aquifer tests, range from six hundred to one thousand three hundred feet squared per day, and tend to be highest in the northernmost portions of the County. (MDE, 2004)

Magothy Aquifer (211D)

The use of the Magothy aquifer is limited to the northernmost reaches of Calvert County. The top of the Magothy aquifer in this part of the county is approximately three hundred to three hundred fifty feet below sea level. The Magothy is a primary water source in Anne Arundel County, but is not present in much of southern Calvert County. The overlying confining units are the Severn and Matawan formations. The Magothy is not well studied in this part of the State due to its limited use, but in other parts of Southern Maryland and the Eastern Shore it is a highly producing aquifer. Published transmissivity values for this aquifer are as high as ten thousand feet squared per day (MGS, 1985). The Magothy is composed of interbedded silt, sand, and clay ranges from three hundred fifty to one thousand seven hundred feet thick depending on geographic location. (MDE, 2004)

WATER QUALITY DATA

Water quality data was reviewed from the Water Supply Program's database for Safe Drinking Water Act (SDWA) contaminants. All data reported is from the water supplied to consumers. Thirteen of the Calvert County Transient Systems are known to have some type of water treatment. Table 3 summarizes the treatment methods and the reason for that treatment. Six of the systems use disinfection. If coliforms are not present in the finished water for the other one hundred thirty-five systems this data can be used to evaluate ground water or source water quality. A review of the monitoring data shows that there is some microbiological contamination believed to be caused by well construction, treatment and/or distribution deficiencies.

Nitrogen compounds

Water quality data indicates that the nitrate levels for all but one of these one hundred forty-one systems are <50% of the SDWA maximum contaminate level (MCL) standards (Table 4). Twin Shields Golf Club had a nitrate result that exceeded 50% of the MCL. The sample came from their old unconfined well that has since been replaced with a new confined well. It is not expected that the system will have any more problems with nitrate contamination because nitrate levels in confined aquifers are very low to nonexistent.

None of the systems had nitrite results that exceeded 50% of the MCL of 1 ppm for nitrite.

Microbiological Contaminants

All of the transient water suppliers are routinely sampled for microbiological contamination (total coliform analysis). If this routine sample is positive the sample is also analyzed for fecal coliform and repeat samples are required within twenty-four hours or as soon as possible. This bacteriological sampling is required by the SDWA. Table 6 summarizes the results of the coliform monitoring carried out for each system since 1996. Twenty-six of the systems have never had a positive bacteriological sample. Fifty-seven systems have had more than twenty-five percent of their bacteriological samples come back positive since 1996. Two of the systems have had positive fecal coliform samples. Both of these samples were taken in 1999, and neither sample was ever confirmed with positive fecal repeat samples.

SUSCEPTIBILITY ANALYSIS

Wells serving the Calvert County Transient Water Systems all draw their water from wells in unconsolidated sedimentary aquifers. All of these wells are completed in confined aquifers. The wells drawing from confined aquifers are protected, if the well is maintained and constructed correctly, and are not susceptible to contamination from surface activity.

Inorganic Compounds

None of the systems are susceptible to nitrogen contamination. There are only significant nitrate results for one of the one hundred forty-one systems. The positive nitrate results for Twin Shields Golf Club were taken from their old shallow well. They have since abandoned that well and are now using a confined well.

Microbiological Contaminants

As stated earlier in this report, Calvert County's unconsolidated sediments, and soil, provide protection from microbiological contamination as water percolates through the overlying soil and aquifer sediments. Most, if not all, of the microbiological contamination of unconsolidated wells comes from either well construction problems or contamination of the well water with bacteria in either the treatment or distribution.

Well construction problems can be caused from improper completion of the well by the well driller, but are mostly caused by vehicles, or lawnmowers, hitting unprotected wells. Common problems include cracked or broken well casings, and well caps. Pitless adaptors and the grouting can also be damaged during well accidents. Wells constructed in pits or low areas that are subject to flooding should be inspected and sampled to ensure their integrity. Waterproof caps are also available to be installed on wells drilled in areas prone to flooding.

All of these construction deficiencies can allow surface water containing microbiological contaminants to enter a well. Two-piece insect proof caps should be installed on all wells to prevent insects from entering the wellhead, which can cause bacterial problems.

Contaminating clean well water with coliform is very easy. Ion-exchange units, and cartridge filters can harbor bacteria that will cause positive bacterial samples. Storage or a distribution problem or repair can also introduce coliform into the system. Correctly disinfecting the water system is very important after pulling a well pump or completing improvements to the distribution system. Dead ends in the water distribution can also cause bacterial problems.

Confined Wells with > 25% Positive Bacterial Results:

If there are no well construction problems with a well drawing from a confined aquifer, the supply should be safe from microbiological contamination. A review of Table 5 indicates that at least one hundred eighteen of the one hundred forty-one confined systems have had at least one positive total coliform sample in the past eight years. Fifty-seven of the systems have had greater than 25% of their samples come back positive for coliform.

Any confined water system where >25% of their water samples are positive for bacteria should have their wellhead inspected. This inspection should focus on eliminating any ways that insects or surface water could enter the wellhead. All water systems should also inspect their distribution systems to insure that drinking water is not contaminated through distribution deficiencies. These may include dead ends, cross connections, inadequate backflow prevention and static water in pipes.

MDE did site visits to numerous water systems across Calvert County. Table 5 highlights the wellhead deficiencies that MDE employees noted while on site. The recommended well improvements should be made as soon as possible. The well and entire water system must be chlorinated after the improvements are made.

SUMMARY AND RECOMMENDATIONS FOR PROTECTING WATER SUPPLIES

Key Findings:

This report identified transient water supplies in Calvert County as being more likely to be contaminated by microbiological contaminants than nitrate or nitrite nitrogen. Sources of microbiological contamination, however, are not believed to be related to ground water contamination, but rather the maintenance of the integrity of the individual water supply system. The recommendations that immediately follow are a result of these key findings.

Recommendations for Individual Water System Owners

- Any wellhead deficiencies noted in Table 5 must be corrected as soon as possible.
- The sanitary integrity of the water supply system must be maintained. Sanitary defects noted in county sanitary surveys should be corrected. All work on the water system should be performed in a sanitary manner and followed with a one-time disinfection.
- Coliform testing results are a good indication if the sanitary integrity of the system has been affected. All positive results should be investigated to determine the cause of the positive tests. Corrective action should be taken to eliminate the source of the problem. Any sources with confirmed fecal contamination must be rehabilitated or abandoned.
- Installing new two-piece well caps is a good way to reduce potential contamination from insects. Caulking of the electrical conduit is needed to ensure a sanitary seal.
- Any wells in areas subject to flooding or just above grade should be sampled following significant rain events to demonstrate if they are sensitive to flooding impacts. If they are, a watertight model well cap should be installed.
- Water systems for seasonal facilities should be disinfected and flushed prior to the opening of a new season.
- Wells should be protected from damage by vehicles or other machinery. If a well is or was damaged, it should be repaired. All work on wells should be followed by disinfections to avoid contamination of the water supply.

Recommendations for County Officials

- Continue regular inspection, oversight and testing of transient noncommunity water systems. Ensure that systems correct the cause of positive bacterial test results.
- Test results show that some systems have a high percentage of positive results. Priority should be placed on those systems that have not corrected the root causes of past positive results.

Reference

- Maryland Department of the Environment. Water Supply Program, 1999, Maryland Source Water Assessment Plan
- Maryland Department of the Environment. Water Supply Program, 2004, Source Water Assessment for Community Water Systems in Calvert County, MD
- Maryland Department of Natural Resources (DNR), 1987, The Quantity and Natural Quality of Ground Water in Maryland: DNR Water Resources Administration.
- Bennion V., Dougherty D., and Overbeck R., 1951, The Water Resources of Calvert County: (Department of Geology, Mines and Water Resources) Bulletin 8
- Otton E., 1955, Ground-Water Resources of the Southern Maryland Coastal Plain: (Department of Geology, Mines and Water Resources) Bulletin 15

Other Sources of Data

Water Appropriation and Use Permits
Calvert County Sanitary Survey Inspection Reports
MDE Water Supply Program (PDWIS) Database
MDE Waste Management Sites Database
Department of Natural Resources Digital Orthophoto Quarter Quadrangles
USGS Topographic 7.5 Minute Quadrangles

| PWSID | System Name | Source # | Plant # | Use Code | Ground Water Appropriation | Aquifer Code | Aquifer Type | Well Tag # | Casing Depth | Well Depth |
|---------|--|----------|---------|----------|----------------------------|--------------|--------------|------------|--------------|------------|
| 1040058 | CALVERT CLIFFS NUCLEAR - BALLFIELD | 1 | 1 | P | CA1963G003 | 124E | C | CA733897 | 315 | 415 |
| 1040058 | CALVERT CLIFFS NUCLEAR - BALLFIELD | 2 | 1 | F | CA1963G003 | 125B | C | CA942506 | 530 | 562 |
| 1040059 | CALVERT CLIFFS NUCLEAR - CAMP CANOY POOL | 1 | 1 | P | CA1963G003 | 124E | C | CA733896 | 315 | 390 |
| 1040059 | CALVERT CLIFFS NUCLEAR - CAMP CANOY POOL | 2 | 1 | B | CA1963G003 | 125B | C | CA812152 | 414 | 560 |
| 1040072 | BREEZY POINT BATHHOUSE | 1 | 1 | P | CA2002G113 | 124C | C | CA813107 | 185 | 200 |
| 1040072 | BREEZY POINT BATHHOUSE | 2 | 1 | P | CA2002G113 | 124C | C | CA813114 | 185 | 200 |
| 1041002 | AMERICAN LEGION POST 274 | 1 | 1 | P | CA1977G017 | 124E | C | CA732514 | 336 | 435 |
| 1041004 | BILL'S BOAT RENTAL | 1 | 1 | P | CA1999G004 | 124E | C | CA941558 | 170 | 230 |
| 1041005 | BETHEL WAY CHURCH | 1 | 1 | P | CA1979G013 | 124E | C | CA733401 | 336 | 435 |
| 1041008 | BOWENS GROCERY | 1 | 1 | P | CA1993G003 | 125B | C | CA883521 | 500 | 554 |
| 1041010 | BRIDGE DINER | 1 | 1 | P | CA1977G009 | 125B | C | CA731896 | 380 | 395 |
| 1041012 | CALVERT CLIFFS STATE PARK | 3 | 1 | P | CA1961G004 | 124C | C | CA043867 | 276 | 428 |
| 1041012 | CALVERT CLIFFS STATE PARK | 1 | 1 | P | | 9999 | C | | | |
| 1041012 | CALVERT CLIFFS STATE PARK | 2 | 1 | P | CA1961G004 | 124C | C | CA883894 | 410 | 420 |
| 1041013 | DUNKIRK DISTRICT PARK | 1 | 1 | P | CA1979G004 | 211D | C | CA733129 | 497 | 512 |
| 1041015 | HALLOWING POINT PARK | 1 | 1 | P | CA1976G005 | 124C | C | CA882198 | 420 | 462 |
| 1041018 | CALVERT SKATING CENTER | 1 | 1 | P | CA1982G008 | 125B | C | CA734410 | 334 | 410 |
| 1041023 | CJ'S FOOD STORE | 1 | 1 | P | | 9999 | C | CA813882 | | |
| 1041025 | COOPER UM CHURCH | 1 | 1 | P | CA1978G009 | 125B | C | CA732691 | 200 | 230 |
| 1041026 | DASH IN OWINGS | 1 | 1 | P | CA1984G007 | 125B | C | CA810145 | 320 | 330 |
| 1041028 | BRIGHT CENTER WEST | 1 | 1 | P | CA1985G007 | 125B | C | CA811494 | 322 | 403 |
| 1041031 | DUNKIRK VOL FIRE DEPT | 1 | 1 | P | CA2000G014 | 125B | C | CA943466 | 310 | 350 |
| 1041033 | EMMANUEL U M CHURCH | 1 | 1 | P | | 9999 | C | | | |
| 1041034 | EAST JOHN YOUTH CENTER | 1 | 1 | P | CA1984G010 | 9999 | C | CA811068 | | |
| 1041036 | FRYING PAN | 1 | 1 | P | CA1979G002 | 124E | C | CA733111 | 294 | 435 |
| 1041037 | GATEWAY NORTH | 1 | 1 | P | | 9999 | C | | | |
| 1041039 | GRAY-RAY AMER LEGION | 1 | 1 | P | CA1968G003 | 124E | C | CA884598 | 290 | 325 |
| 1041040 | GREATER BIBLE WAY CHURCH | 1 | 1 | P | | 124C | C | CA050381 | 222 | 338 |
| 1041041 | HARDESTY GROCERY-SUNDERLAND | 1 | 1 | P | | 124C | C | CA734154 | 194 | 325 |
| 1041046 | HUDSON'S SUNOCO | 1 | 1 | P | CA1989G009 | 124C | C | CA880647 | 175 | 190 |
| 1041049 | HUNTINGTOWN UM CHURCH | 1 | 1 | P | CA1986G006 | 124C | C | CA812216 | 240 | 390 |
| 1041050 | HUNTINGTOWN VOL FIRE DEPT | 1 | 1 | P | CA1974G008 | 125B | C | CA945154 | 500 | 605 |
| 1041052 | FLAVOR OF THE SOUTH CAFE | 1 | 1 | P | | 9999 | C | | | |
| 1041053 | KINGS LANDING CAMP | 1 | 1 | P | | 9999 | C | | | |

Table 1, Well Information for Calvert County Transient Systems.

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| PWSID | System Name | Source # | Plant # | Use Code | Ground Water Appropriation | Aquifer Code | Aquifer Type | Well Tag # | Casing Depth | Well Depth |
|---------|--------------------------------------|----------|---------|----------|----------------------------|--------------|--------------|------------|--------------|------------|
| 1041055 | BURNOUTS BAR & GRILL / STETSONS | 1 | 1 | P | CA1986G014 | 125B | C | CA812638 | 400 | 465 |
| 1041056 | LEN'S MARKET | 1 | 1 | P | | 9999 | C | | | |
| 1041059 | LORD CALVERT BOWL | 1 | 1 | P | CA1975G005 | 125B | C | CA731211 | 210 | 385 |
| 1041061 | MT HOPE UM CHURCH | 1 | 1 | P | CA1991G008 | 124C | C | CA882206 | 300 | 315 |
| 1041065 | DON'S GENERAL STORE | 1 | 1 | P | CA1988G010 | 125B | C | CA880282 | 515 | 530 |
| 1041066 | PATUXENT CAMPSITES | 1 | 1 | P | CA1968G008 | 124C | C | CA734069 | 168 | 223 |
| 1041069 | PETERS UM CHURCH | 1 | 1 | P | | 9999 | C | | | |
| 1041070 | PARIS CENTER (FKA GRIFFITHS) | 1 | 1 | P | CA2005G026 | 125B | C | CA733888 | 397 | 460 |
| 1041074 | TASTY KWIK | 1 | 1 | P | | 9999 | C | | | |
| 1041076 | ADAMS RIBS | 1 | 1 | P | CA1969G014 | 124C | C | CA812176 | 275 | 335 |
| 1041079 | SOLID ROCK CHURCH | 1 | 1 | P | CA1981G008 | 125B | C | CA734153 | 360 | 545 |
| 1041080 | AMERICAN LEGION POST 206 | 1 | 1 | P | CA1966G010 | 124C | C | CA731036 | 212 | 285 |
| 1041080 | AMERICAN LEGION POST 206 | 2 | 1 | P | CA1966G010 | 125B | C | CA732592 | 380 | 424 |
| 1041081 | ST EDMONDS UM CHURCH | 1 | 1 | P | | 124C | C | CA730757 | 216 | 365 |
| 1041086 | TWIN SHIELDS GOLF CLUB | 1 | 1 | P | CA1996G241 | 125B | C | CA945656 | 260 | 280 |
| 1041089 | WATERS MEMORIAL UM CHURCH | 1 | 1 | P | CA1965G009 | 124E | C | CA882818 | 320 | 360 |
| 1041093 | HUNTINGTOWN PLAZA SHOPPING CENTER | 1 | 1 | P | CA1985G002 | 124C | C | CA811407 | 328 | 405 |
| 1041095 | PRINCE FREDERICK PROFESSIONAL BLDG | 1 | 1 | P | CA1979G005 | 124C | C | CA882565 | 252 | 295 |
| 1041098 | FAIRVIEW CENTER | 1 | 1 | P | | 9999 | C | | | |
| 1041101 | GRACE BRETHERN CHURCH - EAST WING | 1 | 1 | P | CA1988G003 | 124C | C | CA813975 | 330 | 350 |
| 1041103 | MT HOPE CENTER | 1 | 1 | P | CA1973G007 | 124C | C | CA812409 | 318 | 390 |
| 1041111 | COVE POINT PARK SNACK BAR | 1 | 1 | P | CA1981G001 | 124E | C | | | |
| 1041113 | CALVERT UNITED APOSTOLIC CHURCH | 1 | 1 | P | | 124C | C | CA811303 | 200 | 325 |
| 1041115 | CHRIST EPISCOPAL CHURCH | 1 | 1 | P | CA1983G006 | 124E | C | CA810284 | 305 | 442 |
| 1041116 | CHURCH OF CHRIST | 1 | 1 | P | CA1983G007 | 124C | C | CA810415 | 213 | 310 |
| 1041117 | CHURCH OF LATTER DAY SAINTS | 1 | 1 | P | CA1984G013 | 124C | C | CA811103 | 250 | 285 |
| 1041120 | EMMANUEL BAPTIST CHURCH | 1 | 1 | P | CA1998G010 | 125B | C | CA941104 | 550 | 570 |
| 1041121 | FIRST LUTHERAN CHURCH | 1 | 1 | P | CA1982G006 | 9999 | C | | | |
| 1041123 | JEHOVAHS WITNESS OF PRINCE FREDERICK | 1 | 1 | P | CA1986G010 | 124C | C | CA812576 | 240 | 263 |
| 1041124 | LANDMARK BAPTIST TEMPLE | 1 | 1 | P | | 124C | C | CA733790 | 231 | 250 |
| 1041125 | GUIDOS RESTAURANT | 1 | 1 | P | CA1986G016 | 124E | C | CA812750 | 320 | 365 |
| 1041127 | ISLAND CREEK PROPERTIES | 1 | 1 | P | | 9999 | C | CA883114 | NA | NA |
| 1041129 | MT GETHSEMANE BAPTIST CHURCH | 1 | 1 | P | CA1991G006 | 124E | C | CA882130 | 240 | 264 |
| 1041133 | SMITHVILLE U M CHURCH | 1 | 1 | P | | 125B | C | CA941020 | 320 | 340 |

Table 1 (Continued), Well Information for Calvert County Transient Systems.

| PWSID | System Name | Source # | Plant # | Use Code | Ground Water Appropriation | Aquifer Code | Aquifer Type | Well Tag # | Casing Depth | Well Depth |
|---------|---------------------------------------|----------|---------|----------|----------------------------|--------------|--------------|------------|--------------|------------|
| 1041137 | ST PAUL UM CHURCH | 1 | 1 | P | CA1978G001 | 124E | C | CA732576 | 315 | 445 |
| 1041140 | KINGS LANDING POOL | 1 | 1 | P | CA1966G011 | 125B | C | CA942776 | 345 | 397 |
| 1041144 | APOSTOLIC FAITH CHURCH | 1 | 1 | P | CA1997G028 | 125B | C | CA920466 | 430 | 437 |
| 1041145 | CHINA KING RESTAURANT | 1 | 1 | P | CA2000G008 | 125B | C | CA942499 | 440 | 455 |
| 1041148 | STONEYS CRAB HOUSE | 1 | 1 | P | | 9999 | C | | | |
| 1041150 | WHITE SANDS RESTAURANT | 1 | 1 | P | CA2005G029 | 9999 | C | CA950061 | NA | NA |
| 1041154 | BREEZY POINT BEACH/CAMP | 1 | 1 | P | CA2002G013 | 125B | C | CA943997 | 368 | 425 |
| 1041158 | MARLEY RUN RECREATION AREA | 1 | 1 | P | CA1991G009 | 124E | C | CA883218 | 240 | 264 |
| 1041160 | ALL SAINTS EPISCOPAL CHURCH | 1 | 1 | P | CA1976G007 | 124E | C | CA731499 | 212 | 345 |
| 1041161 | SOUTHERN CALVERT BAPTIST CHURCH | 1 | 1 | P | CA1993G007 | 124E | C | CA883410 | 380 | 420 |
| 1041162 | MIDDLEHAM & ST PETERS PARISH | 1 | 1 | P | | 9999 | C | CA941679 | | |
| 1041164 | CALVARY BIBLE CHURCH | 1 | 1 | P | | 9999 | C | CA920724 | | |
| 1041165 | CALVERT LIGHTHOUSE TABERNACLE | 1 | 1 | P | CA1985G014 | 124C | C | CA943204 | 280 | 305 |
| 1041166 | ROUTE 260 AMOCO | 1 | 1 | P | CA1998G001 | 125B | C | CA940847 | 268 | 275 |
| 1041167 | DUNKIRK CITGO | 1 | 1 | P | CA1996G039 | 125B | C | CA920916 | 308 | 333 |
| 1041168 | EMMANUEL SEVENTH DAY ADVENTIST CHURCH | 1 | 1 | P | | 9999 | C | | | |
| 1041170 | FASTOP #56 | 1 | 1 | P | CA1998G025 | 124E | C | CA941386 | 320 | 335 |
| 1041171 | WINDSORS EZ STOP | 1 | 1 | P | | 124C | C | CA920631 | 280 | 295 |
| 1041172 | ISLAMIC CENTER | 1 | 1 | P | CA1985G003 | 124C | C | CA880860 | 220 | 365 |
| 1041172 | ISLAMIC CENTER | 2 | 1 | P | CA1985G003 | 124C | C | CA811408 | 226 | 365 |
| 1041174 | ROUTE 231 CITGO | 1 | 1 | P | CA1967G005 | 125B | C | CA884517 | 505 | 535 |
| 1041175 | TOWN CENTER AMOCO | 1 | 1 | P | CA1995G010 | 124C | C | CA921044 | 320 | 355 |
| 1041177 | 7TH DAY ADVENTIST CHURCH OF PR. FRED. | 1 | 1 | P | CA1969G008 | 124E | C | CA884261 | 340 | 355 |
| 1041180 | FASTOP #54 | 1 | 1 | P | CA1994G008 | 124C | C | CA920167 | 390 | 415 |
| 1041181 | BREEZY POINT GRILL WINE & SPIRITS | 1 | 1 | P | | 124C | C | CA812985 | 245 | 270 |
| 1041182 | REID BUILDING | 1 | 1 | P | CA1969G007 | 124C | C | CA882638 | 380 | 510 |
| 1041185 | HALLOWING POINT PARK MAINTENANCE BLDG | 1 | 1 | P | CA1976G005 | 125B | C | CA881906 | 450 | 470 |
| 1041186 | COVE POINT PARK MAINTENANCE BLDG | 1 | 1 | P | CA1981G001 | 124E | C | CA734259 | 399 | 433 |
| 1041187 | LEE FUNERAL HOME | 1 | 1 | P | CA1995G048 | 124C | C | CA920386 | 380 | 420 |
| 1041188 | RAUSCH FUNERAL HOME OWINGS | 1 | 1 | P | CA1999G012 | 125B | C | CA941803 | 460 | 470 |
| 1041189 | RAUSCH FUNERAL HOME PORT REPUBLIC | 1 | 1 | P | CA2001G049 | 124E | C | CA943401 | 340 | 375 |
| 1041190 | RAYMOND FUNERAL HOME | 1 | 1 | P | CA1989G021 | 125B | C | CA881173 | 320 | 330 |
| 1041191 | SEWELL FUNERAL HOME | 1 | 1 | P | | 9999 | C | | | |
| 1041195 | LUSBY SUNOCO | 1 | 1 | P | CA1986G002 | 124E | C | CA812071 | 405 | 415 |

Table 1 (Continued), Well Information for Calvert County Transient Systems.

| PWSID | System Name | Source # | Plant # | Use Code | Ground Water Appropriation | Aquifer Code | Aquifer Type | Well Tag # | Casing Depth | Well Depth |
|---------|--|----------|---------|----------|----------------------------|--------------|--------------|------------|--------------|------------|
| 1041197 | CALVERT ARUNDEL MEDICAL | 1 | 1 | P | CA1974G004 | 125B | C | CA730381 | 308 | 333 |
| 1041198 | BENNETT & BATONG MEDICAL | 1 | 1 | P | | 124E | C | CA945545 | 400 | 430 |
| 1041199 | CALVERT DENTAL ASSOCIATES | 1 | 1 | P | | 9999 | C | | | |
| 1041200 | DOUBLE D'S SPORTS | 1 | 1 | P | CA1996G016 | 124C | C | CA940477 | 260 | 289 |
| 1041201 | HOWLIN BUILDING | 1 | 1 | P | CA1985G006 | 125B | C | CA811493 | 300 | 340 |
| 1041202 | NEW CALVERT CO FAIRGROUND | 1 | 1 | P | | 9999 | C | | | |
| 1041203 | SMECO BUILDING | 1 | 1 | P | CA1977G019 | 124C | C | CA943668 | 500 | 562 |
| 1041204 | CALVERT PROFESSIONAL BUILDING | 1 | 1 | P | CA1986G013 | 125B | C | CA812647 | 520 | 530 |
| 1041207 | MCDONALDS 16243 | 1 | 1 | P | CA1994G002 | 125B | C | CA884269 | 280 | 310 |
| 1041208 | GAMETIME DELI / LIQUORS | 1 | 1 | P | | 9999 | C | | | |
| 1041209 | THE PAVILLION AT GODSGRACE | 1 | 1 | P | CA1996G036 | 125B | C | CA920915 | 400 | 430 |
| 1041211 | J & J PHYSICAL THERAPY | 1 | 1 | P | | 9999 | C | | | |
| 1041213 | GATEWAY CENTER/ GREAT WALL RESTAURANT | 1 | 1 | P | CA1989G022 | 125B | C | CA881162 | 340 | 360 |
| 1041214 | GENTLE FAMILY DENTISTRY | 1 | 1 | P | | 124C | C | CA810383 | 270 | 445 |
| 1041215 | CALVERT ELKS LODGE | 1 | 1 | P | | 124C | C | CA880554 | 310 | 320 |
| 1041218 | FIRST BAPTIST CHURCH | 1 | 1 | P | CA1984G012 | 9999 | C | CA811079 | | |
| 1041219 | GRACE BRETHERN CHURCH - WEST WING | 1 | 1 | P | CA1988G003 | 125B | C | CA940087 | 337 | 350 |
| 1041221 | CYPRESS SWAMP NATURE CENTER | 1 | 1 | P | CA1979G008 | 124C | C | CA944182 | 205 | 225 |
| 1041222 | CVS DUNKIRK | 1 | 1 | P | CA2003G004 | 124C | C | CA941212 | 320 | 330 |
| 1041223 | DOMINOS PIZZA-HUNTINGTOWN | 1 | 1 | P | CA1989G010 | 124C | C | CA880648 | 180 | 205 |
| 1041224 | JENEVAS CAKES | 1 | 1 | P | | 125B | C | CA036124 | 210 | 315 |
| 1041226 | DUNKIRK BAPTIST CHURCH | 1 | 1 | P | CA1998G031 | 125B | C | CA941418 | 335 | 345 |
| 1041227 | HUNTINGTOWN MEDICAL BUILDING | 1 | 1 | P | | 124C | C | CA732172 | 175 | 305 |
| 1041227 | HUNTINGTOWN MEDICAL BUILDING | 2 | 1 | P | | 124C | C | CA813084 | 240 | 280 |
| 1041228 | CALVERT MEDICAL CENTER | 1 | 1 | P | CA1977G002 | 124C | C | CA731803 | 175 | 305 |
| 1041229 | OPTIMISTS CLUB BINGO | 1 | 1 | P | CA1978G006 | 124C | C | CA732598 | 216 | 335 |
| 1041231 | MT HARMONY UMC | 1 | 1 | P | CA1981G003 | 125B | C | CA734087 | 446 | 452 |
| 1041232 | HARVEST FELLOWSHIP | 1 | 1 | P | CA1976G006 | 124E | C | CA945204 | 380 | 435 |
| 1041233 | ST NICHOLAS LUTHERAN | 1 | 1 | P | | 124C | C | CA882851 | 270 | 280 |
| 1041234 | HUNTINGTOWN NORTH/FLOOR SYSTEMS | 1 | 1 | P | CA2000G009 | 125B | C | CA942421 | 458 | 500 |
| 1041235 | BAY BREEZE STATE PARK | 1 | 1 | P | | 9999 | C | | | |
| 1041236 | 7-11 SUNDERLAND | 1 | 1 | P | CA2002G018 | 124C | C | CA944022 | 241 | 275 |
| 1041237 | BRIGHT CENTER EAST | 1 | 1 | P | | 9999 | C | | | |
| 1041238 | BROWN CLEARY BUILDING (CALVERT ANIMAL) | 1 | 1 | P | CA1986G001 | 124C | C | CA812119 | 230 | 260 |

Table 1 (Continued), Well Information for Calvert County Transient Systems.

| PWSID | System Name | Source # | Plant # | Use Code | Ground Water Appropriation | Aquifer Code | Aquifer Type | Well Tag # | Casing Depth | Well Depth |
|---------|------------------------------------|----------|---------|----------|----------------------------|--------------|--------------|------------|--------------|------------|
| 1041239 | DUNKIRK ANIMAL HOSPITAL | 1 | 1 | P | CA1994G052 | 125B | C | CA920539 | 323 | 330 |
| 1041240 | DUNKIRK SUPPLY - LUSBY | 1 | 1 | P | | 9999 | C | | | |
| 1041241 | DUNKIRK SUPPLY OWINGS | 1 | 1 | P | | 125B | C | CA810558 | 260 | 320 |
| 1041242 | DUNKIRK SUPPLY - TRUSS PLANT | 1 | 1 | P | | 9999 | C | | | |
| 1041243 | HEGARTY AND KOPICKI BUILDING | 1 | 1 | P | CA1988G001 | 124C | C | CA943414 | 285 | 365 |
| 1041244 | JLH BUILDING | 1 | 1 | P | CA2000G010 | 124C | C | CA942503 | 492 | 517 |
| 1041245 | SCHEIBELS CONSTRUCTION | 1 | 1 | P | CA1998G016 | 125B | C | CA941230 | 450 | 490 |
| 1041247 | SAFEWAY GAS STATION | 1 | 1 | P | CA2002G021 | 125B | C | CA944338 | 360 | 390 |
| 1041248 | WAWA #573 | 1 | 1 | P | CA2002G016 | 125B | C | CA945439 | 330 | 370 |
| 1041250 | ETERNAL BUZZ TATTOO PARLOR | 1 | 1 | P | | 124E | C | CA733559 | 223 | 265 |
| 1041251 | TOWN & COUNTRY LIQUORS/BARBER SHOP | 1 | 1 | P | | 124E | C | CA733715 | 257 | 400 |
| 1041252 | MATTESON SUPPLY COMPANY | 1 | 1 | P | CA2004G008 | 124C | C | CA945137 | 300 | 345 |
| 1041253 | WORLD GYM | 1 | 1 | P | | 125B | C | CA944815 | 560 | 585 |

Table 1 (Continued), Well Information for Calvert County Transient Systems.

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| Aquifer Code | Aquifer Name |
|--------------|--------------|
| 124C | Nanjemoy |
| 124E | Piney Point |
| 125B | Aquia |
| 211D | Magothy |
| 9999 | Unknown |

| PWSID | System Name | Plant ID | SO TREA | Known Treatment Methods | Reason for Treatment |
|---------|--|----------|---------|-------------------------------|----------------------|
| 1041177 | 7TH DAY ADVENTIST CHURCH OF PR. FRED. | 1 | N000 | No Treatment | None |
| 1041076 | ADAMS RIBS | 1 | N000 | No Treatment | None |
| 1041160 | ALL SAINTS EPISCOPAL CHURCH | 1 | F341 | Filter, Cartridge (NON-SDWIS) | Iron Removal |
| 1041080 | AMERICAN LEGION POST 206 | 1 | N000 | No Treatment | None |
| 1041002 | AMERICAN LEGION POST 274 | 1 | N000 | No Treatment | None |
| 1041144 | APOSTOLIC FAITH CHURCH | 1 | N000 | No Treatment | None |
| 1041198 | BENNETT & BATONG MEDICAL | 1 | N000 | No Treatment | None |
| 1041005 | BETHEL WAY CHURCH | 1 | N000 | No Treatment | None |
| 1041004 | BILL'S BOAT RENTAL | 1 | N000 | No Treatment | None |
| 1041008 | BOWENS GROCERY | 1 | N000 | No Treatment | None |
| 1040072 | BREEZY POINT BATHHOUSE | 1 | D421 | Post Hypochlorination | Disinfection |
| 1041154 | BREEZY POINT BEACH/CAMP | 1 | D421 | Post Hypochlorination | Disinfection |
| 1041181 | BREEZY POINT GRILL WINE & SPIRITS | 1 | N000 | No Treatment | None |
| 1041010 | BRIDGE DINER | 1 | N000 | No Treatment | None |
| 1041028 | BRIGHT CENTER WEST | 1 | N000 | No Treatment | None |
| 1041055 | BURNOUTS BAR & GRILL / STETSONS | 1 | N000 | No Treatment | None |
| 1041164 | CALVARY BIBLE CHURCH | 1 | N000 | No Treatment | None |
| 1041197 | CALVERT ARUNDEL MEDICAL | 1 | N000 | No Treatment | None |
| 1040058 | CALVERT CLIFFS NUCLEAR - BALLFIELD | 1 | N000 | No Treatment | None |
| 1040059 | CALVERT CLIFFS NUCLEAR - CAMP CANOY POOL | 1 | N000 | No Treatment | None |
| 1041012 | CALVERT CLIFFS STATE PARK | 1 | D421 | Post Hypochlorination | Disinfection |
| 1041199 | CALVERT DENTAL ASSOCIATES | 1 | N000 | No Treatment | None |
| 1041215 | CALVERT ELKS LODGE | 1 | N000 | No Treatment | None |
| 1041165 | CALVERT LIGHTHOUSE TABERNACLE | 1 | N000 | No Treatment | None |
| 1041204 | CALVERT PROFESSIONAL BUILDING | 1 | N000 | No Treatment | None |
| 1041018 | CALVERT SKATING CENTER | 1 | N000 | No Treatment | None |
| 1041113 | CALVERT UNITED APOSTOLIC CHURCH | 1 | N000 | No Treatment | None |
| 1041019 | CAMP CANOY EAGLES DEN | 1 | N000 | No Treatment | None |
| 1041145 | CHINA KING RESTAURANT | 1 | N000 | No Treatment | None |
| 1041115 | CHRIST EPISCOPAL CHURCH | 1 | N000 | No Treatment | None |
| 1041116 | CHURCH OF CHRIST | 1 | N000 | No Treatment | None |
| 1041117 | CHURCH OF LATTER DAY SAINTS | 1 | N000 | No Treatment | None |
| 1041023 | CJ'S FOOD STORE | 1 | N000 | No Treatment | None |
| 1041025 | COOPER UM CHURCH | 1 | N000 | No Treatment | None |
| 1041186 | COVE POINT PARK MAINTENANCE BLDG | 1 | D423 | Pre Hypochlorination | Disinfection |

Table 2, Known Treatment methods for Calvert County Transient Systems.

| PWSID | System Name | Plant ID | SO TREA | Known Treatment Methods | Reason for Treatment |
|---------|---------------------------------------|----------|---------|-------------------------|----------------------|
| 1041111 | COVE POINT PARK SNACK BAR | 1 | N000 | No Treatment | None |
| 1041163 | CROSSROADS CHRISTIAN CHURCH | 1 | N000 | No Treatment | None |
| 1041222 | CVS DUNKIRK | 1 | N000 | No Treatment | None |
| 1041221 | CYPRESS SWAMP NATURE CENTER | 1 | N000 | No Treatment | None |
| 1041026 | DASH IN OWINGS | 1 | N000 | No Treatment | None |
| 1041223 | DOMINOS PIZZA-HUNTINGTOWN | 1 | N000 | No Treatment | None |
| 1041065 | DON'S GENERAL STORE | 1 | N000 | No Treatment | None |
| 1041200 | DOUBLE D'S SPORTS | 1 | N000 | No Treatment | None |
| 1041167 | DUNKIRK CITGO | 1 | N000 | No Treatment | None |
| 1041013 | DUNKIRK DISTRICT PARK | 1 | D423 | Pre Hypochlorination | Disinfection |
| 1041077 | DUNKIRK VILLAGE SHOPPING CENTER | 1 | N000 | No Treatment | None |
| 1041031 | DUNKIRK VOL FIRE DEPT | 1 | N000 | No Treatment | None |
| 1041034 | EAST JOHN YOUTH CENTER | 1 | N000 | No Treatment | None |
| 1041120 | EMMANUAL BAPTIST CHURCH | 1 | N000 | No Treatment | None |
| 1041168 | EMMANUEL SEVENTH DAY ADVENTIST CHURCH | 1 | N000 | No Treatment | None |
| 1041033 | EMMANUEL U M CHURCH | 1 | N000 | No Treatment | None |
| 1041098 | FAIRVIEW CENTER | 1 | N000 | No Treatment | None |
| 1041180 | FASTOP #54 | 1 | N000 | No Treatment | None |
| 1041170 | FASTOP #56 | 1 | N000 | No Treatment | None |
| 1041218 | FIRST BAPTIST CHURCH | 1 | N000 | No Treatment | None |
| 1041121 | FIRST LUTHERAN CHURCH | 1 | N000 | No Treatment | None |
| 1041036 | FRYING PAN | 1 | N000 | No Treatment | None |
| 1041208 | GAMETIME DELI / LIQUORS | 1 | N000 | No Treatment | None |
| 1041213 | GATEWAY CENTER/ GREAT WALL RESTAURANT | 1 | N000 | No Treatment | None |
| 1041037 | GATEWAY NORTH | 1 | N000 | No Treatment | None |
| 1041214 | GENTLE FAMILY DENTISTRY | 1 | N000 | No Treatment | None |
| 1041101 | GRACE BRETHREN CHURCH - EAST WING | 1 | N000 | No Treatment | None |
| 1041219 | GRACE BRETHREN CHURCH - WEST WING | 1 | N000 | No Treatment | None |
| 1041039 | GRAY-RAY AMER LEGION | 1 | N000 | No Treatment | None |
| 1041040 | GREATER BIBLE WAY CHURCH | 1 | N000 | No Treatment | None |
| 1041125 | GUIDOS RESTAURANT | 1 | N000 | No Treatment | None |
| 1041015 | HALLOWING POINT PARK | 1 | P341 | Filtration, Cartridge | Particulate Removal |
| 1041185 | HALLOWING POINT PARK MAINTENANCE BLDG | 1 | N000 | No Treatment | None |
| 1041041 | HARDESTY GROCERY-SUNDERLAND | 1 | N000 | No Treatment | None |
| 1041232 | HARVEST FELLOWSHIP | 1 | N000 | No Treatment | None |

Table 2 (Continued), Known Treatment methods for Calvert County Transient Systems.

| PWSID | System Name | Plant ID | SO TREA | Known Treatment Methods | Reason for Treatment |
|---------|--------------------------------------|----------|---------|-------------------------------|----------------------|
| 1041201 | HOWLIN BUILDING | 1 | N000 | No Treatment | None |
| 1041046 | HUDSON'S SUNOCO | 1 | N000 | No Treatment | None |
| 1041227 | HUNTINGTOWN MEDICAL BUILDING | 1 | S460 | Ion Exchange | Softening |
| 1041234 | HUNTINGTOWN NORTH/FLOOR SYSTEMS | 1 | N000 | No Treatment | None |
| 1041093 | HUNTINGTOWN PLAZA SHOPPING CENTER | 1 | N000 | No Treatment | None |
| 1041049 | HUNTINGTOWN UM CHURCH | 1 | N000 | No Treatment | None |
| 1041050 | HUNTINGTOWN VOL FIRE DEPT | 1 | N000 | No Treatment | None |
| 1041172 | ISLAMIC CENTER | 1 | N000 | No Treatment | None |
| 1041127 | ISLAND CREEK PROPERTIES | 1 | N000 | No Treatment | None |
| 1041211 | J & J PHYSICAL THERAPY | 1 | N000 | No Treatment | None |
| 1041123 | JEHOVAHS WITNESS OF PRINCE FREDERICK | 1 | N000 | No Treatment | None |
| 1041053 | KINGS LANDING CAMP | 1 | N000 | No Treatment | None |
| 1041140 | KINGS LANDING POOL | 1 | N000 | No Treatment | None |
| 1041124 | LANDMARK BAPTIST TEMPLE | 1 | N000 | No Treatment | None |
| 1041187 | LEE FUNERAL HOME | 1 | N000 | No Treatment | None |
| 1041056 | LEN'S MARKET | 1 | N000 | No Treatment | None |
| 1041059 | LORD CALVERT BOWL | 1 | N000 | No Treatment | None |
| 1041195 | LUSBY SUNOCO | 1 | N000 | No Treatment | None |
| 1041158 | MARLEY RUN RECREATION AREA | 1 | D421 | Post Hypochlorination | Disinfection |
| 1041027 | MARYLAND COUNTRY CATERERS | 1 | N000 | No Treatment | None |
| 1041207 | MCDONALDS 16243 | 1 | N000 | No Treatment | None |
| 1041162 | MIDDLEHAM & ST PETERS PARISH | 1 | N000 | No Treatment | None |
| 1041129 | MT GETHSEMANE BAPTIST CHURCH | 1 | N000 | No Treatment | None |
| 1041231 | MT HARMONY UMC | 1 | N000 | No Treatment | None |
| 1041103 | MT HOPE CENTER | 1 | N000 | No Treatment | None |
| 1041061 | MT HOPE UM CHURCH | 1 | N000 | No Treatment | None |
| 1041202 | NEW CALVERT CO FAIRGROUND | 1 | N000 | No Treatment | None |
| 1041070 | PARIS CENTER (FKA GRIFFITHS) | 1 | N000 | No Treatment | None |
| 1041066 | PATUXENT CAMPSITES | 1 | N000 | No Treatment | None |
| 1041069 | PETERS UM CHURCH | 1 | N000 | No Treatment | None |
| 1041095 | PRINCE FREDERICK PROFESSIONAL BLDG | 1 | F341 | Filter, Cartridge (NON-SDWIS) | Iron Removal |
| 1041188 | RAUSCH FUNERAL HOME OWINGS | 1 | N000 | No Treatment | None |
| 1041189 | RAUSCH FUNERAL HOME PORT REPUBLIC | 1 | N000 | No Treatment | None |
| 1041190 | RAYMOND FUNERAL HOME | 1 | N000 | No Treatment | None |
| 1041182 | REID BUILDING | 1 | N000 | No Treatment | None |

Table 2 (Continued), Known Treatment methods for Calvert County Transient Systems.

| PWSID | System Name | Plant ID | SO TREA | Known Treatment Methods | Reason for Treatment |
|---------|---------------------------------|----------|---------|-------------------------|----------------------|
| 1041174 | ROUTE 231 CITGO | 1 | N000 | No Treatment | None |
| 1041166 | ROUTE 260 AMOCO | 1 | S460 | Ion Exchange | Softening |
| 1041247 | SAFEWAY GAS STATION | 1 | N000 | No Treatment | None |
| 1041245 | SCHEIBELS CONSTRUCTION | 1 | S460 | Ion Exchange | Softening |
| 1041191 | SEWELL FUNERAL HOME | 1 | N000 | No Treatment | None |
| 1041203 | SMECO BUILDING | 1 | N000 | No Treatment | None |
| 1041133 | SMITHVILLE U M CHURCH | 1 | N000 | No Treatment | None |
| 1041079 | SOLID ROCK CHURCH | 1 | N000 | No Treatment | None |
| 1041161 | SOUTHERN CALVERT BAPTIST CHURCH | 1 | N000 | No Treatment | None |
| 1041081 | ST EDMONDS UM CHURCH | 1 | N000 | No Treatment | None |
| 1041233 | ST NICHOLAS LUTHERAN | 1 | N000 | No Treatment | None |
| 1041137 | ST PAUL UM CHURCH | 1 | N000 | No Treatment | None |
| 1041148 | STONEYS CRAB HOUSE | 1 | N000 | No Treatment | None |
| 1041074 | TASTY KWIK | 1 | N000 | No Treatment | None |
| 1041209 | THE PAVILLION AT GODSGRACE | 1 | N000 | No Treatment | None |
| 1041175 | TOWN CENTER AMOCO | 1 | N000 | No Treatment | None |
| 1041086 | TWIN SHIELDS GOLF CLUB | 1 | N000 | No Treatment | None |
| 1041089 | WATERS MEMORIAL UM CHURCH | 1 | N000 | No Treatment | None |
| 1041248 | WAWA #573 | 1 | SSSS | Hardness Removal | Softening |
| 1041248 | WAWA #573 | 1 | F660 | Sedimentation | Iron Removal |
| 1041150 | WHITE SANDS RESTAURANT | 1 | N000 | No Treatment | None |
| 1041171 | WINDSORS EZ STOP | 1 | N000 | No Treatment | None |

Table 2 (Continued), Known Treatment methods for Calvert County Transient Systems.

| PWSID | System Name | Total # of Nitrate Samples | >1 ppm | >50% MCL | Total # of Nitrite Samples | Number of Nitrite Samples > 50% MCL |
|---------|--|----------------------------|--------|----------|----------------------------|-------------------------------------|
| 1041236 | 7-11 SUNDERLAND | 2 | 0 | 0 | 1 | 0 |
| 1041177 | 7TH DAY ADVENTIST CHURCH OF PR. FRED. | 8 | 0 | 0 | 4 | 0 |
| 1041076 | ADAMS RIBS | 10 | 0 | 0 | 6 | 0 |
| 1041160 | ALL SAINTS EPISCOPAL CHURCH | 9 | 0 | 0 | 4 | 0 |
| 1041080 | AMERICAN LEGION POST 206 | 8 | 0 | 0 | 4 | 0 |
| 1041002 | AMERICAN LEGION POST 274 | 7 | 0 | 0 | 2 | 0 |
| 1041144 | APOSTOLIC FAITH CHURCH | 9 | 0 | 0 | 5 | 0 |
| 1041235 | BAY BREEZE STATE PARK | 1 | 0 | 0 | 0 | 0 |
| 1041198 | BENNETT & BATONG MEDICAL | 5 | 0 | 0 | 3 | 0 |
| 1041005 | BETHEL WAY CHURCH | 8 | 0 | 0 | 4 | 0 |
| 1041004 | BILL'S BOAT RENTAL | 4 | 0 | 0 | 3 | 0 |
| 1041008 | BOWENS GROCERY | 9 | 0 | 0 | 4 | 0 |
| 1040072 | BREEZY POINT BATHHOUSE | 7 | 0 | 0 | 6 | 0 |
| 1041154 | BREEZY POINT BEACH/CAMP | 7 | 0 | 0 | 5 | 0 |
| 1041181 | BREEZY POINT GRILL WINE & SPIRITS | 6 | 0 | 0 | 2 | 0 |
| 1041010 | BRIDGE DINER | 9 | 0 | 0 | 5 | 0 |
| 1041237 | BRIGHT CENTER EAST | 2 | 0 | 0 | 1 | 0 |
| 1041028 | BRIGHT CENTER WEST | 9 | 0 | 0 | 3 | 0 |
| 1041238 | BROWN CLEARY BUILDING (CALVERT ANIMAL) | 2 | 0 | 0 | 1 | 0 |
| 1041055 | BURNOUTS BAR & GRILL / STETSONS | 8 | 0 | 0 | 4 | 0 |
| 1041164 | CALVARY BIBLE CHURCH | 7 | 0 | 0 | 3 | 0 |
| 1041197 | CALVERT ARUNDEL MEDICAL | 8 | 0 | 0 | 3 | 0 |
| 1040058 | CALVERT CLIFFS NUCLEAR - BALLFIELD | 10 | 0 | 0 | 6 | 0 |
| 1040059 | CALVERT CLIFFS NUCLEAR - CAMP CANOY POOL | 20 | 0 | 0 | 13 | 0 |
| 1041012 | CALVERT CLIFFS STATE PARK | 5 | 0 | 0 | 3 | 0 |
| 1041199 | CALVERT DENTAL ASSOCIATES | 9 | 0 | 0 | 4 | 0 |
| 1041215 | CALVERT ELKS LODGE | 8 | 0 | 0 | 4 | 0 |
| 1041165 | CALVERT LIGHTHOUSE TABERNACLE | 9 | 0 | 0 | 5 | 0 |
| 1041228 | CALVERT MEDICAL CENTER | 5 | 0 | 0 | 2 | 0 |
| 1041204 | CALVERT PROFESSIONAL BUILDING | 6 | 0 | 0 | 3 | 0 |
| 1041018 | CALVERT SKATING CENTER | 8 | 0 | 0 | 4 | 0 |
| 1041113 | CALVERT UNITED APOSTOLIC CHURCH | 9 | 0 | 0 | 5 | 0 |
| 1041019 | CAMP CANOY EAGLES DEN | 4 | 0 | 0 | 1 | 0 |

Table 3, Total IOC water quality samples collected for transient systems.

| PWSID | System Name | Total # of Nitrate Samples | >1 ppm | >50% MCL | Total # of Nitrite Samples | Number of Nitrite Samples > 50% MCL |
|---------|---------------------------------------|----------------------------|--------|----------|----------------------------|-------------------------------------|
| 1041145 | CHINA KING RESTAURANT | 9 | 0 | 0 | 4 | 0 |
| 1041115 | CHRIST EPISCOPAL CHURCH | 8 | 0 | 0 | 3 | 0 |
| 1041116 | CHURCH OF CHRIST | 8 | 0 | 0 | 3 | 0 |
| 1041117 | CHURCH OF LATTER DAY SAINTS | 8 | 0 | 0 | 4 | 0 |
| 1041023 | CJ'S FOOD STORE | 8 | 0 | 0 | 3 | 0 |
| 1041025 | COOPER UM CHURCH | 7 | 0 | 0 | 3 | 0 |
| 1041186 | COVE POINT PARK MAINTENANCE BLDG | 8 | 0 | 0 | 4 | 0 |
| 1041111 | COVE POINT PARK SNACK BAR | 7 | 0 | 0 | 3 | 0 |
| 1041163 | CROSSROADS CHRISTIAN CHURCH | 5 | 0 | 0 | 2 | 0 |
| 1041222 | CVS DUNKIRK | 6 | 0 | 0 | 2 | 0 |
| 1041221 | CYPRESS SWAMP NATURE CENTER | 8 | 0 | 0 | 4 | 0 |
| 1041026 | DASH IN OWINGS | 10 | 0 | 0 | 4 | 0 |
| 1041223 | DOMINOS PIZZA-HUNTINGTOWN | 7 | 0 | 0 | 2 | 0 |
| 1041065 | DON'S GENERAL STORE | 9 | 0 | 0 | 5 | 0 |
| 1041200 | DOUBLE D'S SPORTS | 8 | 0 | 0 | 4 | 0 |
| 1041239 | DUNKIRK ANIMAL HOSPITAL | 2 | 0 | 0 | 1 | 0 |
| 1041226 | DUNKIRK BAPTIST CHURCH | 7 | 0 | 0 | 3 | 0 |
| 1041167 | DUNKIRK CITGO | 9 | 0 | 0 | 4 | 0 |
| 1041013 | DUNKIRK DISTRICT PARK | 8 | 0 | 0 | 5 | 0 |
| 1041240 | DUNKIRK SUPPLY - LUSBY | 3 | 0 | 0 | 1 | 0 |
| 1041242 | DUNKIRK SUPPLY - TRUSS PLANT | 2 | 0 | 0 | 1 | 0 |
| 1041241 | DUNKIRK SUPPLY OWINGS | 2 | 0 | 0 | 1 | 0 |
| 1041077 | DUNKIRK VILLAGE SHOPPING CENTER | 8 | 0 | 0 | 4 | 0 |
| 1041031 | DUNKIRK VOL FIRE DEPT | 9 | 0 | 0 | 4 | 0 |
| 1041034 | EAST JOHN YOUTH CENTER | 5 | 0 | 0 | 3 | 0 |
| 1041120 | EMMANUAL BAPTIST CHURCH | 10 | 0 | 0 | 4 | 0 |
| 1041168 | EMMANUEL SEVENTH DAY ADVENTIST CHURCH | 8 | 0 | 0 | 6 | 0 |
| 1041033 | EMMANUEL U M CHURCH | 9 | 0 | 0 | 4 | 0 |
| 1041098 | FAIRVIEW CENTER | 9 | 0 | 0 | 5 | 0 |
| 1041180 | FASTOP #54 | 7 | 0 | 0 | 3 | 0 |
| 1041170 | FASTOP #56 | 7 | 0 | 0 | 3 | 0 |
| 1041218 | FIRST BAPTIST CHURCH | 9 | 0 | 0 | 4 | 0 |
| 1041121 | FIRST LUTHERAN CHURCH | 9 | 0 | 0 | 3 | 0 |

Table 3 (Continued), Total IOC water quality samples collected for transient systems.

| PWSID | System Name | Total # of Nitrate Samples | >1 ppm | >50% MCL | Total # of Nitrite Samples | Number of Nitrite Samples > 50% MCL |
|---------|---------------------------------------|----------------------------|--------|----------|----------------------------|-------------------------------------|
| 1041052 | FLAVOR OF THE SOUTH CAFE | 6 | 0 | 0 | 2 | 0 |
| 1041036 | FRYING PAN | 8 | 0 | 0 | 3 | 0 |
| 1041208 | GAMETIME DELI / LIQUORS | 8 | 0 | 0 | 3 | 0 |
| 1041213 | GATEWAY CENTER/ GREAT WALL RESTAURANT | 7 | 0 | 0 | 2 | 0 |
| 1041037 | GATEWAY NORTH | 10 | 0 | 0 | 5 | 0 |
| 1041214 | GENTLE FAMILY DENTISTRY | 7 | 0 | 0 | 2 | 0 |
| 1041101 | GRACE BRETHREN CHURCH - EAST WING | 9 | 0 | 0 | 3 | 0 |
| 1041219 | GRACE BRETHREN CHURCH - WEST WING | 8 | 0 | 0 | 3 | 0 |
| 1041039 | GRAY-RAY AMER LEGION | 7 | 0 | 0 | 4 | 0 |
| 1041040 | GREATER BIBLE WAY CHURCH | 8 | 0 | 0 | 4 | 0 |
| 1041125 | GUIDOS RESTAURANT | 8 | 0 | 0 | 3 | 0 |
| 1041015 | HALLOWING POINT PARK | 8 | 0 | 0 | 5 | 0 |
| 1041185 | HALLOWING POINT PARK MAINTENANCE BLDG | 10 | 0 | 0 | 5 | 0 |
| 1041041 | HARDESTY GROCERY-SUNDERLAND | 10 | 0 | 0 | 4 | 0 |
| 1041232 | HARVEST FELLOWSHIP | 6 | 0 | 0 | 1 | 0 |
| 1041243 | HEGARTY AND KOPICKI BUILDING | 2 | 0 | 0 | 1 | 0 |
| 1041201 | HOWLIN BUILDING | 8 | 0 | 0 | 3 | 0 |
| 1041046 | HUDSON'S SUNOCO | 7 | 0 | 0 | 3 | 0 |
| 1041227 | HUNTINGTOWN MEDICAL BUILDING | 6 | 0 | 0 | 2 | 0 |
| 1041234 | HUNTINGTOWN NORTH/FLOOR SYSTEMS | 5 | 0 | 0 | 1 | 0 |
| 1041093 | HUNTINGTOWN PLAZA SHOPPING CENTER | 9 | 0 | 0 | 4 | 0 |
| 1041049 | HUNTINGTOWN UM CHURCH | 7 | 0 | 0 | 3 | 0 |
| 1041050 | HUNTINGTOWN VOL FIRE DEPT | 10 | 0 | 0 | 5 | 0 |
| 1041172 | ISLAMIC CENTER | 8 | 0 | 0 | 3 | 0 |
| 1041127 | ISLAND CREEK PROPERTIES | 11 | 0 | 0 | 6 | 0 |
| 1041211 | J & J PHYSICAL THERAPY | 8 | 0 | 0 | 3 | 0 |
| 1041123 | JEHOVAHS WITNESS OF PRINCE FREDERICK | 8 | 0 | 0 | 4 | 0 |
| 1041224 | JENEVAS CAKES | 5 | 0 | 0 | 2 | 0 |
| 1041244 | JLH BUILDING | 1 | 0 | 0 | 5 | 0 |
| 1041053 | KINGS LANDING CAMP | 10 | 0 | 0 | 0 | 0 |
| 1041140 | KINGS LANDING POOL | 5 | 0 | 0 | 4 | 0 |
| 1041124 | LANDMARK BAPTIST TEMPLE | 7 | 0 | 0 | 3 | 0 |
| 1041187 | LEE FUNERAL HOME | 8 | 0 | 0 | 3 | 0 |

Table 3 (Continued), Total IOC water quality samples collected for transient systems.

| PWSID | System Name | Total # of Nitrate Samples | >1 ppm | >50% MCL | Total # of Nitrite Samples | Number of Nitrite Samples > 50% MCL |
|---------|------------------------------------|----------------------------|--------|----------|----------------------------|-------------------------------------|
| 1041056 | LEN'S MARKET | 9 | 0 | 0 | 5 | 0 |
| 1041059 | LORD CALVERT BOWL | 9 | 0 | 0 | 5 | 0 |
| 1041195 | LUSBY SUNOCO | 7 | 0 | 0 | 3 | 0 |
| 1041158 | MARLEY RUN RECREATION AREA | 9 | 0 | 0 | 5 | 0 |
| 1041027 | MARYLAND COUNTRY CATERERS | 8 | 0 | 0 | 3 | 0 |
| 1041252 | MATTESON SUPPLY COMPANY | 1 | 0 | 0 | 0 | 0 |
| 1041207 | MCDONALDS 16243 | 8 | 0 | 0 | 3 | 0 |
| 1041162 | MIDDLEHAM & ST PETERS PARISH | 7 | 0 | 0 | 3 | 0 |
| 1041129 | MT GETHSEMANE BAPTIST CHURCH | 9 | 0 | 0 | 4 | 0 |
| 1041231 | MT HARMONY UMC | 6 | 0 | 0 | 2 | 0 |
| 1041103 | MT HOPE CENTER | 9 | 0 | 0 | 5 | 0 |
| 1041061 | MT HOPE UM CHURCH | 9 | 0 | 0 | 5 | 0 |
| 1041202 | NEW CALVERT CO FAIRGROUND | 2 | 0 | 0 | 1 | 0 |
| 1041229 | OPTIMISTS CLUB BINGO | 7 | 0 | 0 | 2 | 0 |
| 1041070 | PARIS CENTER (FKA GRIFFITHS) | 4 | 0 | 0 | 2 | 0 |
| 1041066 | PATUXENT CAMPSITES | 9 | 0 | 0 | 6 | 0 |
| 1041069 | PETERS UM CHURCH | 9 | 0 | 0 | 3 | 0 |
| 1041095 | PRINCE FREDERICK PROFESSIONAL BLDG | 9 | 0 | 0 | 5 | 0 |
| 1041188 | RAUSCH FUNERAL HOME OWINGS | 8 | 0 | 0 | 3 | 0 |
| 1041189 | RAUSCH FUNERAL HOME PORT REPUBLIC | 7 | 0 | 0 | 3 | 0 |
| 1041190 | RAYMOND FUNERAL HOME | 10 | 0 | 0 | 4 | 0 |
| 1041182 | REID BUILDING | 9 | 0 | 0 | 4 | 0 |
| 1041174 | ROUTE 231 CITGO | 9 | 0 | 0 | 5 | 0 |
| 1041166 | ROUTE 260 AMOCO | 8 | 0 | 0 | 4 | 0 |
| 1041247 | SAFEWAY GAS STATION | 2 | 0 | 0 | 1 | 0 |
| 1041245 | SCHEIBELS CONSTRUCTION | 2 | 0 | 0 | 1 | 0 |
| 1041191 | SEWELL FUNERAL HOME | 8 | 0 | 0 | 4 | 0 |
| 1041203 | SMECO BUILDING | 8 | 0 | 0 | 4 | 0 |
| 1041133 | SMITHVILLE U M CHURCH | 11 | 0 | 0 | 6 | 0 |
| 1041079 | SOLID ROCK CHURCH | 6 | 0 | 0 | 2 | 0 |
| 1041161 | SOUTHERN CALVERT BAPTIST CHURCH | 7 | 0 | 0 | 3 | 0 |
| 1041081 | ST EDMONDS UM CHURCH | 8 | 0 | 0 | 4 | 0 |
| 1041233 | ST NICHOLAS LUTHERAN | 4 | 0 | 0 | 1 | 0 |

Table 3 (Continued), Total IOC water quality samples collected for transient systems.

| PWSID | System Name | Total # of Nitrate Samples | >1 ppm | >50% MCL | Total # of Nitrite Samples | Number of Nitrite Samples > 50% MCL |
|---------|------------------------------------|----------------------------|--------|----------|----------------------------|-------------------------------------|
| 1041137 | ST PAUL UM CHURCH | 8 | 0 | 0 | 4 | 0 |
| 1041148 | STONEYS CRAB HOUSE | 6 | 0 | 0 | 5 | 0 |
| 1041074 | TASTY KWIK | 7 | 0 | 0 | 3 | 0 |
| 1041209 | THE PAVILLION AT GODSGRACE | 9 | 0 | 0 | 4 | 0 |
| 1041251 | TOWN & COUNTRY LIQUORS/BARBER SHOP | 1 | 0 | 0 | 4 | 0 |
| 1041175 | TOWN CENTER AMOCO | 9 | 0 | 0 | 0 | 0 |
| 1041086 | TWIN SHIELDS GOLF CLUB * | 11 | 9 | 1 | 1 | 0 |
| 1041089 | WATERS MEMORIAL UM CHURCH | 9 | 0 | 0 | 5 | 0 |
| 1041248 | WAWA #573 | 1 | 0 | 0 | 1 | 0 |
| 1041150 | WHITE SANDS RESTAURANT | 5 | 0 | 0 | 3 | 0 |
| 1041171 | WINDSORS EZ STOP | 10 | 0 | 0 | 5 | 0 |
| 1041253 | WORLD GYM | 1 | 0 | 0 | 0 | 0 |

Table 3 (Continued), Total IOC water quality samples collected for transient systems.

* In 2005 a new club well was drilled for use by this system. The most recent results are <1 ppm.

| PWSID | System Name | Total Number of Samples Taken | Number of Positive Bacti. Samples | Percentage of Total Samples Positive | Number of Positive Fecal Samples |
|---------|--|-------------------------------|-----------------------------------|--------------------------------------|----------------------------------|
| 1041236 | 7-11 SUNDERLAND | 9 | 0 | 0 | 0 |
| 1041177 | 7TH DAY ADVENTIST CHURCH OF PR. FRED. | 23 | 6 | 26 | 0 |
| 1041076 | ADAMS RIBS | 42 | 18 | 43 | 0 |
| 1041160 | ALL SAINTS EPISCOPAL CHURCH | 29 | 8 | 28 | 0 |
| 1041080 | AMERICAN LEGION POST 206 | 24 | 6 | 26 | 0 |
| 1041002 | AMERICAN LEGION POST 274 | 17 | 0 | 0 | 0 |
| 1041144 | APOSTOLIC FAITH CHURCH | 25 | 13 | 52 | 0 |
| 1041198 | BENNETT & BATONG MEDICAL | 41 | 27 | 66 | 0 |
| 1041005 | BETHEL WAY CHURCH | 31 | 7 | 23 | 0 |
| 1041004 | BILL'S BOAT RENTAL | 7 | 0 | 0 | 0 |
| 1041008 | BOWENS GROCERY | 25 | 2 | 8 | 0 |
| 1040072 | BREEZY POINT BATHHOUSE | 10 | 2 | 20 | 0 |
| 1041154 | BREEZY POINT BEACH/CAMP | 16 | 1 | 6 | 0 |
| 1041181 | BREEZY POINT GRILL WINE & SPIRITS | 22 | 4 | 18 | 0 |
| 1041010 | BRIDGE DINER | 36 | 11 | 31 | 0 |
| 1041237 | BRIGHT CENTER EAST | 16 | 10 | 63 | 0 |
| 1041028 | BRIGHT CENTER WEST | 23 | 1 | 4 | 0 |
| 1041238 | BROWN CLEARLY BUILDING (CALVERT ANIMAL) | 13 | 8 | 62 | 0 |
| 1041055 | BURNOUTS BAR & GRILL / STETSONS | 24 | 3 | 13 | 0 |
| 1041164 | CALVARY BIBLE CHURCH | 30 | 10 | 33 | 0 |
| 1041197 | CALVERT ARUNDEL MEDICAL | 24 | 2 | 8 | 0 |
| 1040058 | CALVERT CLIFFS NUCLEAR - BALLFIELD | 6 | 0 | 0 | 0 |
| 1040059 | CALVERT CLIFFS NUCLEAR - CAMP CANOY POOL | 8 | 0 | 0 | 0 |
| 1041012 | CALVERT CLIFFS STATE PARK | 22 | 3 | 14 | 1 |
| 1041199 | CALVERT DENTAL ASSOCIATES | 23 | 4 | 17 | 0 |
| 1041215 | CALVERT ELKS LODGE | 27 | 18 | 67 | 0 |
| 1041165 | CALVERT LIGHTHOUSE TABERNACLE | 23 | 13 | 57 | 0 |
| 1041228 | CALVERT MEDICAL CENTER | 17 | 0 | 0 | 0 |
| 1041204 | CALVERT PROFESSIONAL BUILDING | 27 | 17 | 63 | 0 |
| 1041018 | CALVERT SKATING CENTER | 23 | 2 | 9 | 0 |
| 1041113 | CALVERT UNITED APOSTOLIC CHURCH | 22 | 13 | 59 | 0 |
| 1041019 | CAMP CANOY EAGLES DEN | 3 | 0 | 0 | 0 |
| 1041145 | CHINA KING RESTAURANT | 25 | 6 | 24 | 0 |

Table 4, Routine and repeat bacteriological samples for each system since 1996.

| PWSID | System Name | Total Number of Samples Taken | Number of Positive Bacti. Samples | Percentage of Total Samples Positive | Number of Positive Fecal Samples |
|--------------|---------------------------------------|--------------------------------------|--|---|---|
| 1041115 | CHRIST EPISCOPAL CHURCH | 28 | 6 | 21 | 0 |
| 1041116 | CHURCH OF CHRIST | 24 | 2 | 8 | 0 |
| 1041117 | CHURCH OF LATTER DAY SAINTS | 17 | 1 | 6 | 0 |
| 1041023 | CJ'S FOOD STORE | 21 | 2 | 10 | 0 |
| 1041025 | COOPER UM CHURCH | 24 | 10 | 42 | 0 |
| 1041186 | COVE POINT PARK MAINTENANCE BLDG | 27 | 11 | 41 | 0 |
| 1041111 | COVE POINT PARK SNACK BAR | 21 | 8 | 38 | 0 |
| 1041163 | CROSSROADS CHRISTIAN CHURCH | 20 | 5 | 25 | 0 |
| 1041222 | CVS DUNKIRK | 18 | 0 | 0 | 0 |
| 1041221 | CYPRESS SWAMP NATURE CENTER | 26 | 7 | 27 | 0 |
| 1041026 | DASH IN OWINGS | 37 | 23 | 62 | 0 |
| 1041223 | DOMINOS PIZZA-HUNTINGTOWN | 24 | 3 | 13 | 0 |
| 1041065 | DON'S GENERAL STORE | 37 | 23 | 62 | 0 |
| 1041200 | DOUBLE D'S SPORTS | 23 | 2 | 9 | 0 |
| 1041239 | DUNKIRK ANIMAL HOSPITAL | 13 | 7 | 54 | 0 |
| 1041226 | DUNKIRK BAPTIST CHURCH | 20 | 0 | 0 | 0 |
| 1041167 | DUNKIRK CITGO | 24 | 3 | 13 | 0 |
| 1041013 | DUNKIRK DISTRICT PARK | 24 | 14 | 58 | 0 |
| 1041240 | DUNKIRK SUPPLY - LUSBY | 11 | 10 | 91 | 0 |
| 1041242 | DUNKIRK SUPPLY - TRUSS PLANT | 7 | 1 | 14 | 0 |
| 1041241 | DUNKIRK SUPPLY OWINGS | 16 | 5 | 31 | 0 |
| 1041077 | DUNKIRK VILLAGE SHOPPING CENTER | 21 | 7 | 33 | 0 |
| 1041031 | DUNKIRK VOL FIRE DEPT | 23 | 1 | 4 | 0 |
| 1041034 | EAST JOHN YOUTH CENTER | 19 | 8 | 42 | 0 |
| 1041120 | EMMANUEL BAPTIST CHURCH | 30 | 9 | 30 | 0 |
| 1041168 | EMMANUEL SEVENTH DAY ADVENTIST CHURCH | 20 | 3 | 15 | 0 |
| 1041033 | EMMANUEL U M CHURCH | 29 | 1 | 3 | 0 |
| 1041250 | ETERNAL BUZZ TATTOO PARLOR | 2 | 0 | 0 | 0 |
| 1041098 | FAIRVIEW CENTER | 23 | 9 | 39 | 0 |
| 1041180 | FASTOP #54 | 27 | 9 | 33 | 0 |
| 1041170 | FASTOP #56 | 23 | 1 | 4 | 0 |
| 1041218 | FIRST BAPTIST CHURCH | 29 | 7 | 24 | 0 |
| 1041121 | FIRST LUTHERAN CHURCH | 25 | 4 | 16 | 0 |

Table 4 (Continued), Routine and repeat bacteriological samples for each system since 1996.

| PWSID | System Name | Total Number of Samples Taken | Number of Positive Bacti. Samples | Percentage of Total Samples Positive | Number of Positive Fecal Samples |
|--------------|---------------------------------------|--------------------------------------|--|---|---|
| 1041052 | FLAVOR OF THE SOUTH CAFE | 17 | 0 | 0 | 0 |
| 1041036 | FRYING PAN | 28 | 5 | 18 | 0 |
| 1041208 | GAMETIME DELI / LIQUORS | 20 | 1 | 5 | 0 |
| 1041213 | GATEWAY CENTER/ GREAT WALL RESTAURANT | 29 | 19 | 66 | 0 |
| 1041037 | GATEWAY NORTH | 27 | 6 | 22 | 0 |
| 1041214 | GENTLE FAMILY DENTISTRY | 23 | 2 | 9 | 0 |
| 1041101 | GRACE BRETHREN CHURCH - EAST WING | 27 | 10 | 37 | 0 |
| 1041219 | GRACE BRETHREN CHURCH - WEST WING | 23 | 1 | 4 | 0 |
| 1041039 | GRAY-RAY AMER LEGION | 21 | 1 | 5 | 0 |
| 1041040 | GREATER BIBLE WAY CHURCH | 22 | 1 | 5 | 0 |
| 1041125 | GUIDOS RESTAURANT | 13 | 0 | 0 | 0 |
| 1041015 | HALLOWING POINT PARK | 27 | 14 | 52 | 0 |
| 1041185 | HALLOWING POINT PARK MAINTENANCE BLDG | 36 | 15 | 42 | 0 |
| 1041041 | HARDESTY GROCERY-SUNDERLAND | 33 | 8 | 24 | 0 |
| 1041232 | HARVEST FELLOWSHIP | 23 | 9 | 39 | 0 |
| 1041243 | HEGARTY AND KOPICKI BUILDING | 12 | 3 | 25 | 0 |
| 1041201 | HOWLIN BUILDING | 23 | 5 | 22 | 0 |
| 1041046 | HUDSON'S SUNOCO | 33 | 16 | 49 | 0 |
| 1041227 | HUNTINGTOWN MEDICAL BUILDING | 17 | 1 | 6 | 0 |
| 1041234 | HUNTINGTOWN NORTH/FLOOR SYSTEMS | 17 | 0 | 0 | 0 |
| 1041093 | HUNTINGTOWN PLAZA SHOPPING CENTER | 21 | 11 | 52 | 0 |
| 1041049 | HUNTINGTOWN UM CHURCH | 28 | 13 | 46 | 0 |
| 1041050 | HUNTINGTOWN VOL FIRE DEPT | 26 | 4 | 15 | 0 |
| 1041172 | ISLAMIC CENTER | 22 | 6 | 27 | 0 |
| 1041127 | ISLAND CREEK PROPERTIES | 24 | 3 | 13 | 0 |
| 1041211 | J & J PHYSICAL THERAPY | 23 | 4 | 17 | 0 |
| 1041123 | JEHOVAHS WITNESS OF PRINCE FREDERICK | 27 | 8 | 30 | 0 |
| 1041224 | JENEVAS CAKES | 20 | 9 | 45 | 0 |
| 1041244 | JLH BUILDING | 2 | 0 | 0 | 0 |
| 1041053 | KINGS LANDING CAMP | 19 | 0 | 0 | 0 |
| 1041140 | KINGS LANDING POOL | 8 | 1 | 13 | 0 |
| 1041124 | LANDMARK BAPTIST TEMPLE | 29 | 3 | 10 | 0 |
| 1041187 | LEE FUNERAL HOME | 26 | 6 | 23 | 0 |

Table 4 (Continued), Routine and repeat bacteriological samples for each system since 1996.

| PWSID | System Name | Total Number of Samples Taken | Number of Positive Bacti. Samples | Percentage of Total Samples Positive | Number of Positive Fecal Samples |
|--------------|------------------------------------|--------------------------------------|--|---|---|
| 1041056 | LEN'S MARKET | 26 | 6 | 23 | 0 |
| 1041059 | LORD CALVERT BOWL | 22 | 1 | 5 | 0 |
| 1041195 | LUSBY SUNOCO | 30 | 10 | 33 | 0 |
| 1041158 | MARLEY RUN RECREATION AREA | 18 | 3 | 17 | 0 |
| 1041027 | MARYLAND COUNTRY CATERERS | 21 | 2 | 10 | 0 |
| 1041252 | MATTESON SUPPLY COMPANY | 2 | 0 | 0 | 0 |
| 1041207 | MCDONALDS 16243 | 22 | 0 | 0 | 0 |
| 1041162 | MIDDLEHAM & ST PETERS PARISH | 19 | 9 | 47 | 0 |
| 1041129 | MT GETHSEMANE BAPTIST CHURCH | 27 | 12 | 44 | 0 |
| 1041231 | MT HARMONY UMC | 27 | 14 | 52 | 0 |
| 1041103 | MT HOPE CENTER | 32 | 11 | 34 | 1 |
| 1041061 | MT HOPE UM CHURCH | 28 | 17 | 61 | 0 |
| 1041202 | NEW CALVERT CO FAIRGROUND | 2 | 0 | 0 | 0 |
| 1041229 | OPTIMISTS CLUB BINGO | 16 | 0 | 0 | 0 |
| 1041070 | PARIS CENTER (FKA GRIFFITHS) | 10 | 1 | 10 | 0 |
| 1041066 | PATUXENT CAMPSITES | 24 | 7 | 29 | 0 |
| 1041069 | PETERS UM CHURCH | 22 | 3 | 14 | 0 |
| 1041095 | PRINCE FREDERICK PROFESSIONAL BLDG | 21 | 0 | 0 | 0 |
| 1041188 | RAUSCH FUNERAL HOME OWINGS | 20 | 0 | 0 | 0 |
| 1041189 | RAUSCH FUNERAL HOME PORT REPUBLIC | 21 | 1 | 5 | 0 |
| 1041190 | RAYMOND FUNERAL HOME | 29 | 8 | 28 | 0 |
| 1041182 | REID BUILDING | 24 | 9 | 38 | 0 |
| 1041174 | ROUTE 231 CITGO | 33 | 19 | 58 | 0 |
| 1041166 | ROUTE 260 AMOCO | 32 | 13 | 41 | 0 |
| 1041247 | SAFEWAY GAS STATION | 2 | 0 | 0 | 0 |
| 1041245 | SCHEIBELS CONSTRUCTION | 8 | 0 | 0 | 0 |
| 1041191 | SEWELL FUNERAL HOME | 24 | 3 | 13 | 0 |
| 1041203 | SMECO BUILDING | 23 | 1 | 4 | 0 |
| 1041133 | SMITHVILLE U M CHURCH | 22 | 6 | 27 | 0 |
| 1041079 | SOLID ROCK CHURCH | 19 | 3 | 16 | 0 |
| 1041161 | SOUTHERN CALVERT BAPTIST CHURCH | 20 | 2 | 10 | 0 |
| 1041081 | ST EDMONDS UM CHURCH | 18 | 1 | 6 | 0 |
| 1041233 | ST NICHOLAS LUTHERAN | 28 | 14 | 50 | 0 |

Table 4 (Continued), Routine and repeat bacteriological samples for each system since 1996.

| PWSID | System Name | Total Number of Samples Taken | Number of Positive Bacti. Samples | Percentage of Total Samples Positive | Number of Positive Fecal Samples |
|--------------|------------------------------------|--------------------------------------|--|---|---|
| 1041137 | ST PAUL UM CHURCH | 21 | 2 | 10 | 0 |
| 1041148 | STONEYS CRAB HOUSE | 20 | 3 | 15 | 0 |
| 1041074 | TASTY KWIK | 33 | 12 | 36 | 0 |
| 1041209 | THE PAVILLION AT GODSGRACE | 41 | 18 | 44 | 0 |
| 1041251 | TOWN & COUNTRY LIQUORS/BARBER SHOP | 2 | 0 | 0 | 0 |
| 1041175 | TOWN CENTER AMOCO | 24 | 1 | 4 | 0 |
| 1041086 | TWIN SHIELDS GOLF CLUB | 40 | 6 | 15 | 0 |
| 1041089 | WATERS MEMORIAL UM CHURCH | 23 | 1 | 4 | 0 |
| 1041248 | WAWA #573 | 2 | 0 | 0 | 0 |
| 1041150 | WHITE SANDS RESTAURANT | 20 | 3 | 15 | 0 |
| 1041171 | WINDSORS EZ STOP | 24 | 2 | 8 | 0 |
| 1041253 | WORLD GYM | 2 | 0 | 0 | 0 |

Table 4 (Continued), Routine and repeat bacteriological samples for each system since 1996.

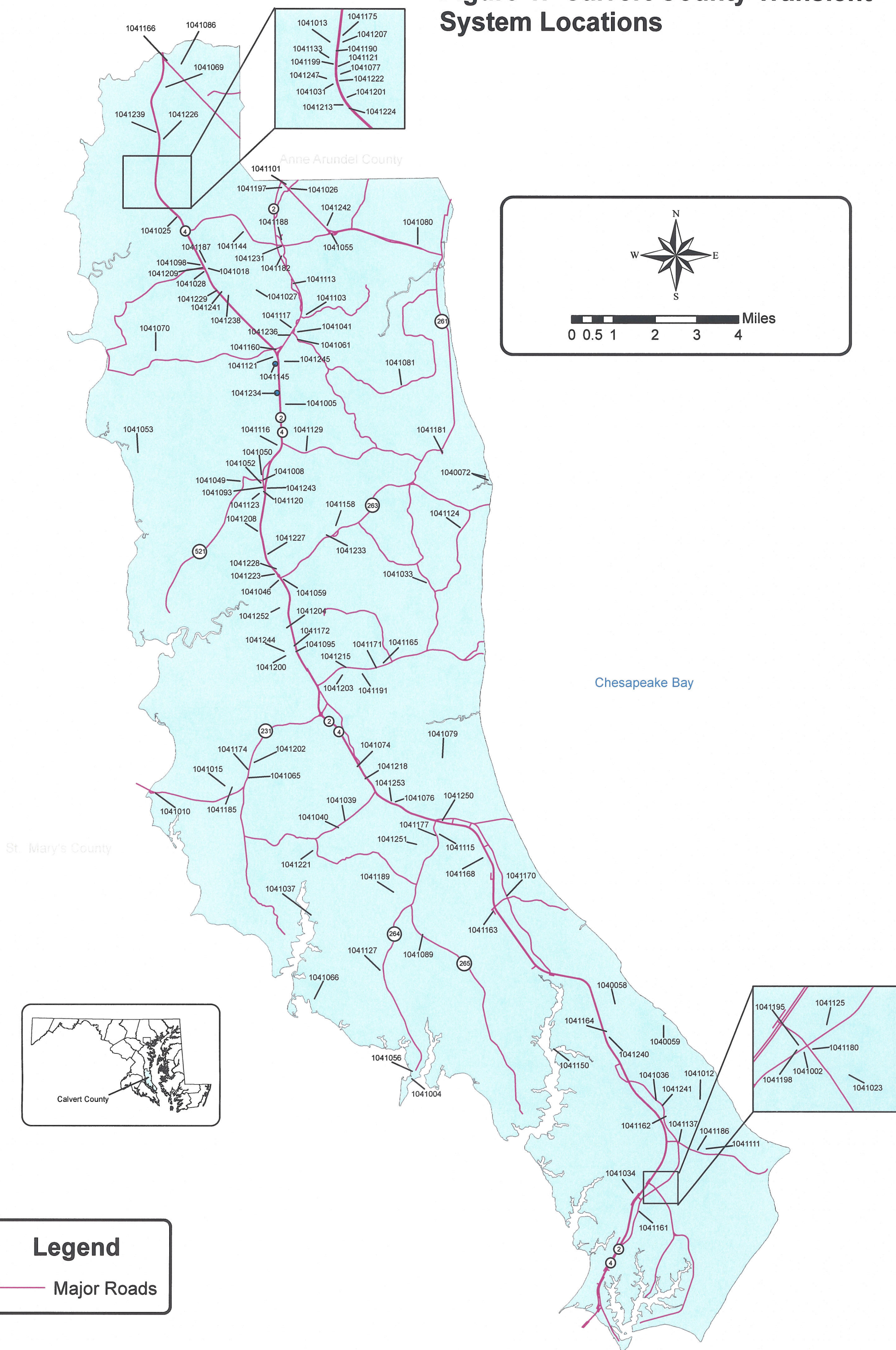
| PWSID | System Name | Install an Insect-proof cap | Install Ballards to protect well | Repair electrical conduit | Extend casing further above grade | Repair Casing | Inspect/Repair Treatment System | Integrity of Wellhead Could Not be Assessed | Well Recently Replaced |
|---------|---|-----------------------------|----------------------------------|---------------------------|-----------------------------------|---------------|---------------------------------|---|------------------------|
| 1041195 | Lusby Sonoco | x | x | | | | | | |
| 1041186 | Cove Point Maintenance Building | x | x | x | | | | | |
| 1041111 | Cove Point Park Snack Bar | | x | | | x | | | |
| 1041034 | East St. John's Youth Center | x | | | | | | | |
| 1041115 | Christ Episcopal Church | x | | | | | | | |
| 1041076 | Adam's Ribs | x | | x | | | | | |
| 1041015 | Hallowing Point Park | | x | x | | | x | | |
| 1041185 | Hallowing Point Park Maintenance Building | x | | | | x | | | |
| 1041065 | Don's General Store | x | x | | | x | | | |
| 1041174 | Route 231 Citgo | x | | x | | | | | |
| 1041074 | Tasty Quick | x | | | | x | | | |
| 1041049 | Huntingtown United Methodist Church | | x | | | x | | | |
| 1041005 | Bethel Way Church | x | | x | | | | | |
| 1041101 | Grace Brethren Church- East Wing | x | | | | x | | | |
| 1041239 | Dunkirk Animal Hospital | x | x | | | x | | | |
| 1041190 | Raymond Funeral Home | x | x | | | x | | | |
| 1041113 | Calvert United Apostolic Church | | | x | | | | | |
| 1041182 | The Reid Building | x | x | x | | | | | |
| 1041144 | Apostolic Faith Church | x | x | | | x | | | |
| 1041145 | China King Restaurant | | x | | | x | | | |
| 1041241 | Dunkirk Supply Owings | x | | | | | | | |
| 1041213 | Gateway Center/ Great Wall Restaurant | | | | x | | | | |
| 1041224 | Jeneva's Cakes | | x | x | | | | | |
| 1041025 | Cooper United Methodist Church | x | | | x | | | | |
| 1041218 | First Baptist Church | x | x | | | x | | | |
| 1041172 | The Islamic Center | x | x | | | x | | | |
| 1041120 | Emmanuel Baptist | x | x | | | | | | |
| 1041215 | Calvert Elks Lodge | x | x | | | x | | | |
| 1041233 | St. Nicholas Lutheran | x | | | | x | | | |
| 1041209 | The Pavillion at God's Grace | x | x | | x | | | | |
| 1041180 | Fast Stop #54 | x | x | | | | | | |

Table 5. Wellhead deficiencies for each system with >25% bacterial results

| PWSID | System Name | Install an Insect-proof cap | Install Ballards to protect well | Repair electrical conduit | Extend casing further above grade | Repair Casing | Inspect/Repair Treatment System | Integrity of Wellhead Could Not be Assessed | Well Recently Replaced |
|---------|---------------------------------------|-----------------------------|----------------------------------|---------------------------|-----------------------------------|---------------|---------------------------------|---|------------------------|
| 1041164 | Calvary Bible Church | x | x | | | | | | |
| 1041066 | Patuxent Campsites | x | | | | | | | |
| 1041177 | Seventh Day Adventist | x | x | | | | | | |
| 1041046 | Hudson Sonoco | x | x | | | | | | |
| 1041061 | Mt. Hope United Methodist Church | x | x | | | | | | |
| 1041231 | Mt. Harmony United Methodist Church | x | x | | | | | | |
| 1041204 | Calvert Professional Building | x | x | | | | | | |
| 1041123 | Jehovah's Witness of Prince Frederick | x | x | | | | | | |
| 1041129 | Mt. Gethsemane | x | x | | | | | | |
| 1041160 | All Saints Episcopal Church | x | x | | | | x | | |
| 1041166 | Route 260 Amoco | | | | | | x | | |
| 1040072 | Breezy Point Bath House | | x | | | x | | | |
| 1041013 | Dunkirk District Park | | | | | | | x | |
| 1041098 | Fairview Center | | | | | | | x | |
| 1041240 | Dunkirk Supply-Lusby | | | | | | | x | |
| 1041103 | Mt. Hope Center | | | | | | | x | |
| 1041026 | Dash Inn Owings | | x | | | | | | |
| 1041162 | Middleham St. Peter's Parish | | x | | | | | | |
| 1041221 | Cypress Swamp Nature Center | | x | | | | | | |
| 1041165 | Calvert Lighthouse Tabernacle | | x | | | | | | |
| 1041243 | Hegarty and Kopicki Building | | x | | | | | | |
| 1041238 | Brown Cleary Building | | x | | | | | | |
| 1041093 | Huntingtown Plaza Shopping Center | | x | | | | | | x |
| 1041010 | Bridge Diner | | x | | | | | | |
| 1041086 | Twin Shields Golf Club | | | | | | | | x |

Table 5 (Continued). Wellhead deficiencies for each system with >25% bacterial results

Figure 1. Calvert County Transient System Locations



Simplified Aquifer Cross Section

