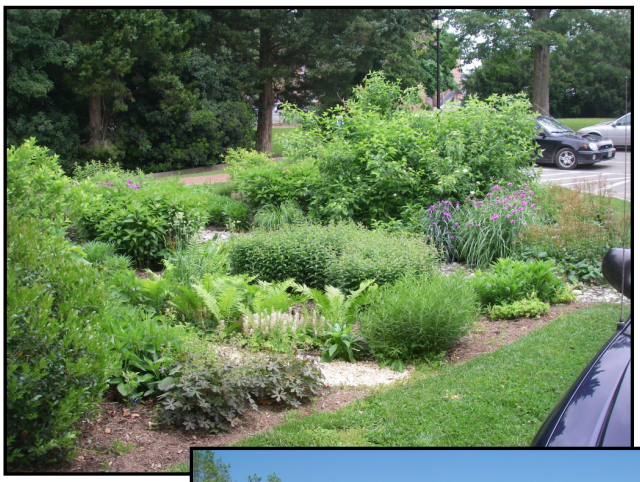
STORMWATER UTILITY FEASIBILITY STUDY

Centreville Town Council
101 Lawyers Row
Centreville, Maryland 21617



October 18, 2010

DUFFIELD ASSOCIATES
5400 Limestone Road
Wilmington, DE 19808

URS
4051 Ogletown Road
Newark, DE 19713

Financial assistance provided by the Coastal Zone Management Act of 1972, as amended, administered by the Office of Ocean and Coastal Resource Management, National Oceanic and Atmospheric Administration.

TABLE OF CONTENTS

EXECUTIVE SUMMARY

The objectives of this study were to assess the condition of the existing storm drainage infrastructure and stormwater management facilities, generally determine future needs, and evaluate the issues associated with creating a stormwater utility for the Town of Centreville. The study was geared toward providing a framework for utility development and establishing general feasibility. Resolving the numerous intricacies and actual implementation of a utility were not included and would need to be provided in a subsequent phase. Funding for the study was provided by Maryland Department of Natural Resources (DNR) through the Chesapeake & Coastal Program (CCP), Coastal Programs Initiative (CCI). Components of the study included field reconnaissance, GIS analyses, defining the existing program and identifying potential enhancements, developing a revenue collection framework, and preparing a final report.

The Town is generally responsible for the inspection, maintenance, rehabilitation, and construction of the storm drainage system within the Town limits comprising approximately 700 inlets and an unknown number of miles of storm sewer. Town Public Works uses a trailer-mounted Vac-tron and a Sweeper truck. Several issues are known to exist. For example, the Town is currently repairing a storm sewer located adjacent to a sludge drying bed at the Town's wastewater treatment plant that is badly eroded at the outfall. There are also plans to construct another two or three retrofit projects in the next 12 months using State 319 Funds and 2011 Trust Funds. The on-going maintenance of the existing stormwater retrofit projects, in addition to the proposed projects, will be the responsibility of the Town personnel.

Expenditures coinciding with the Existing Program were summarized into spreadsheet format and were projected out five years using an escalation factor of 2.5 percent to present more than just a "snapshot" of needs and approaches. Projected future costs coinciding with program improvements were derived by interviews with Town personnel, field work performed by URS, and review of provided documents. Three potential levels of service (LOS) were evaluated and are detailed in the spreadsheet in Appendix A:

Level of Service One or "Essential" includes the Existing Program as well as hardware and software costs that would be incurred should a stormwater utility be implemented, replacement of the Vac-tron and the street sweeper, payments into a capital recovery fund or bond payments to enable major capital projects to be undertaken, maintenance of retrofit projects previously undertaken by the Town, and preparation of a more detailed inventory of the drainage infrastructure (inlets, pipes, and outfalls).

Level of Service Two or "Enhanced" includes Level of Service One expenditures plus projects that begin moving the Town toward a more proactive approach to managing stormwater such as construction and subsequent maintenance of low impact stormwater management facilities as recommended in the LID Restoration Master Plan, compliance with TMDLs, and additional staff time.

Level of Service Three or "Optimal" includes Level of Service Two expenditures but more aggressively advances the proactive approach including a higher level of treatment per the LID Master Plan, maintenance of stormwater management basins and payments into a capital recovery fund or bond payments to enable retrofits should the Town decide to assume responsibility for basins currently privately-owned, compliance with the NPDES MS4 permit program, and additional staff time.

The impervious coverage associated with five land uses in Centreville (single family residential, multi-family residential, commercial/industrial, public/institutional, and roads) was estimated through GIS evaluations. These evaluations indicated that the amount of impervious surface for the average single-family detached residential property in Centreville is approximately 3,200 square feet. Therefore, this figure is used as the Equivalent Residential Unit (ERU). ERUs provide a common measure to compare residential and nonresidential properties. The number of ERUs for each of the land uses was determined by simply dividing the total calculated impervious coverage by the ERU figure of 3,200 square feet.

A framework for deriving revenues under this concept was developed and provided in Appendix B. Example Unit Rates show how much revenue would be collected from each land use category with an ERU rate of $1.00. These unit values were extrapolated for other ERU rates (not shown) such that rates corresponding to each level of service could be estimated. Alternatives to this type of ERU approach exist including determining the impervious amount of cover on each and every residential parcel or for each residential zoning district. The framework spreadsheet is based on numerous assumptions and the rates shown are for example only and should not be used for any type of budgeting projection.

Since stormwater management practices employed on some properties may result in a lesser runoff contribution to the drainage system, various credit programs have been developed. For this study, a credit for the approximate 660 residential properties draining to a privately-maintained detention or retention basin was assumed. Also, placeholders for two commercial/industrial credits were included. This assessment assumed that tax-exempt properties in Centreville would contribute to a stormwater utility in the same way that every other property would. (State and County buildings, while exempt from Town property tax, pay water and sewer fees based on usage.) The exception to this would be State and Town roadways which were assumed to be exempted.

One of the most difficult issues regarding surface water management in Maryland and throughout the country is the reliance on private entities for the maintenance of stormwater management structures. Assumption of maintenance responsibilities by the Town would be advantageous for a number of reasons. HOA officers would be relieved from the burden of maintaining their community's basins, total expenditures would be reduced if a single agency performed the maintenance work and/or oversaw contractors due to economies of scale, and water quality in the Town would be improved through enhanced maintenance. However, the costs associated with annual maintenance as well as the inevitable retrofits could significantly increase revenues needed to run the stormwater program. In the end, any such policy change would need to be fully vetted in the public arena with advantages and disadvantages fully explored.

The final phase of utility implementation would necessitate two broad actions by the Town to effectively resolve the issues described in these recommendations:

Create a Citizens Advisory Committee – The Committee, comprised of a diverse group of stakeholders, would better define the program and assure that it matches residents' and merchants' expectations and willingness-to-pay. The Committee could also hold public forums on utility development. A clear mission with overall time frame would be needed from the Town to assure the group stays focused.

Prepare a Business Plan – A utility cannot be created without a solid foundation. A Business Plan which would build upon, but better detail and fine tune, the expenditure and revenue estimates presented herein is essential. The Plan would also address various implementation details and resolve policy issues.

Some jurisdictions have conducted similar assessments only to decide that a utility is not appropriate for them at the current time or under existing conditions. In other words, there is nothing improper with evaluating the potential for utility development and then deciding to not pursue it further. However, proceeding without necessary due diligence and understanding of residents' expectations and then failing in the implementation could be very problematic.

This report was prepared by URS Corporation and Duffield Associates under award number NA09NOS4190170 from the Office of Ocean and Coastal Resource Management (OCRM), National Oceanic and Atmospheric Administration (NOAA), through the Maryland Department of Natural Resources Chesapeake and Coastal Program. The statements, findings, conclusions and recommendations are those of the author(s) and do not necessarily reflect the views of NOAA or the U.S. Department of Commerce.

SECTION ONE. INTRODUCTION AND BACKGROUND

In February 2010, the Town of Centreville retained the services of URS Corporation to perform a Stormwater Utility Feasibility Study. Due to a change in personnel, URS subcontracted a portion of the work to Duffield Associates, Inc. The objectives of the study were to assess the condition of the existing storm drainage infrastructure and stormwater management facilities, generally determine future needs, and evaluate the issues associated with creating a stormwater utility for the Town. The study was geared toward providing a framework for utility development and establishing general feasibility. Resolving the numerous intricacies and actual implementation of a utility were not included and would need to be provided in a subsequent phase. Funding for the study was provided by Maryland Department of Natural Resources (DNR) through the Chesapeake & Coastal Program (CCP), Coastal Programs Initiative (CCI).

A stormwater utility would function similarly to a potable water or electric utility where revenues and expenditures associated with stormwater conveyance and management would be accounted for on an individual property basis and separately from other Town functions. Under the utility concept, businesses and residents are assessed a fee that is based on the amount of stormwater runoff produced by their property which in turn is a function of the amount of impervious surfaces such as roof tops and paving that are present on each site. Whereas usage of other utilities like water and electric can typically be quantified with a meter or similar device, rates of runoff cannot be measured as easily and therefore imperviousness is commonly relied upon as an approximation of the amount a user is contributing to the drainage system.

The number of stormwater utilities in the United States is growing each year. It has been estimated that there are currently about 1,000 nationwide. They vary significantly throughout the country and must be tailored to meet local needs and conditions but in general, involve restructuring existing municipal operations, developing a comprehensive stormwater program, and providing adequate, stable, and equitable funding for the program.

Stormwater utilities operate under the premise that those who contribute more runoff to the drainage infrastructure pay more for constructing and maintaining the system. Therefore, this is considered an equitable method of allocating costs. Centreville currently uses its general revenues, principally derived from property taxes, for its stormwater-related expenditures. In instances where larger, mostly impervious parcels are assessed a higher value than smaller or less developed parcels, equity may already exist. However, if there are cases when smaller lots with less impervious surfaces are assessed a higher value than larger, mostly developed lots, the current funding mechanism could be considered inequitable.

The Town's decision to analyze utility feasibility is timely. Throughout the State and across the country, concerns regarding stormwater management and conveyance are evolving from mostly an individual matter related to flooding concerns to one of more of a community level related to water quality. Regulatory programs such as Total Maximum Daily Loads (TMDLs) and the National Pollutant Discharge Elimination System (NPDES) municipal separate storm sewer system (MS4) permits are resulting in cities and counties evaluating methods by which surface water management programs can be funded.

It should be noted that the Chesapeake Bay TMDL's will be finalized in December 2010 and the Maryland Phase 1 Watershed Implementation Plan (WIP) is currently in a public review period. The Phase II WIP, which is scheduled to be adopted by November 2011, will add specificity to the Phase I WIP and could likely include additional requirements for non-point runoff.

If Centreville decides to implement a stormwater utility, it would most likely be one of the smaller cities in the country, from a population standpoint, to do so. Lewes, Delaware (population 3,200) recently enacted a stormwater "tariff" which is essentially a utility fee. Research found similar programs in cities as small as Bluffton, South Carolina (population 4,100); and Lancaster (population 4,070) and Vernon (population 7,230), both in Wisconsin. This is important as there are certain fixed costs associated with a utility and since Centreville is smaller than most cities that have adopted this approach, the lack of economies of scale could result in higher than average rates.

The scope of work for this Stormwater Utility Feasibility Study was as follows:

Field Reconnaissance

As part of the overall feasibility assessment, URS conducted a field inventory and assessment of stormwater infrastructure located within the Town limits. Field work was divided into two separate tasks as described below.

Best Management Practices (BMPs)

An inventory provided by the Queen Anne's County Department of Public Works (QACDPW) was used to identify the locations of BMPs throughout the Town. BMPs included wet ponds and dry ponds (33), infiltration practices (8), and sand filters (2) for a total of 43 structures. Each facility was surveyed using sub-meter accurate GPS equipment. The survey included the perimeter of the BMP, entry and discharge points as well as the location of any defects. The condition of each BMP was assessed and a series of digital photographs was collected to document the inspection and condition of the BMP. A representative from the QACDPW was present for some of the inspections.

In addition to the BMP's noted above, the Town has also recently constructed several stormwater retrofit projects including the Coastal Plain Outfall near Banjo Lane, the Wooded Wetland near the entrance to the Town's wastewater treatment plant and a Bioswale at the Police Station. Funds will need to be budgeted annually for the on-going maintenance of these facilities. The undertaking of additional retrofit projects as recommended in the LID Restoration Master Plan prepared by EcoSite, Inc. will exacerbate this funding situation.

Drainage Inlets

Each drainage inlet (i.e. catch basin) in the Town was located and surveyed using sub-meter accurate GPS equipment. A total of 687 drainage inlets were located, with approximately two thirds located in the Northbrook and Symphony Village developments. Following the GPS survey, the condition of a representative sample of the inlets (57 total) was assessed. Emphasis was placed on older inlets located in the center of the Town, with a smaller sampling of inlets from Northbrook and Symphony Village also included. Inlet walls, frames, grates and pipe connections were assessed and the presence of collected sediment and / or debris was noted. In addition, each of the sample inlets was opened and photographed.

In general, it was found that the storm drainage system in Centreville is in reasonable condition and other than minor maintenance such as removal of obstructions, no further work appeared to be needed in the near-term. However, as noted in Section Two, there may be some capacity issues the Town may need to address.

The location of the facilities described above can be found in Figures 1 and 2.

GIS Analyses

GIS information obtained from the County was used for the purposes of calculating impervious surface coverages for various land uses. This analysis is further described in Section Four.

Defining Existing Program and Identifying Potential Enhancements

Current efforts were determined mostly through interviews with appropriate Town personnel. Potential enhancements were also discussed during the interviews but were also identified by field work and review of documents provided by the Town. Costs associated with program improvements were estimated based on collective asset management experiences coupled with various distributed guidelines. Three potential levels of service were identified as described in Section Three.

Developing Revenue Collection Framework

Utilizing existing GIS data, the approximate amount of impervious cover corresponding to a variety of existing land uses was estimated. Impervious coverage of public roadways was included as these are often exempted from a utility fee. The equivalent residential unit (ERU), as defined in Section Four, was calculated and a framework for calculating corresponding square footage fees matching three potential levels of service was developed. Finally, subdivisions with their own stormwater management basins were identified as these may qualify for a credit.

Final Report and Recommendations

This report concludes the feasibility study and completes Phase I of the CCP, CCI grant. This assessment was based on very approximate expenditure estimates and restrictive GIS data. In-depth evaluations were not possible and also outside the scope of this evaluation. While a framework for potential fees is offered, this report is intended more to provide the Town with the tasks and policy decisions that would be needed should it decide to proceed with the second and final phase of utility implementation.

This report was prepared by URS Corporation and Duffield Associates under award number NA09NOS4190170 from the Office of Ocean and Coastal Resource Management (OCRM), National Oceanic and Atmospheric Administration (NOAA), through the Maryland Department of Natural Resources Chesapeake and Coastal Program. The statements, findings, conclusions and recommendations are those of the author(s) and do not necessarily reflect the views of NOAA or the U.S. Department of Commerce.

Figure 1

Figure 2

SECTION TWO. CURRENT FUNCTIONS AND EXPENDITURES

General Function and Responsibilities

The Town of Centreville is generally responsible for the inspection, maintenance, rehabilitation, and construction of the storm drainage system within the Town limits comprising approximately 700 inlets and an unknown number of miles of storm sewer. Though the Maryland State Highway Administration has maintenance responsibility for the drainage systems within State rights-of-way, the Town will often perform tasks at these locations such as removing debris from grates. Town employees mow and occasionally perform rudimentary work on open channels. Review of the stormwater management and erosion and sediment control portions of development plans, as well as inspections during construction, is handled by Queen Anne's County.

Town Public Works staff is proactive with their maintenance program by routinely inspecting and cleaning inlets particularly before major rain events. They use a trailer-mounted Vac-tron to vacuum sediment from inlets and clear debris from pipes with an attached jet washer. These tasks are usually performed annually in the center of Town and on an as-needed basis elsewhere. The Vac-tron equipment is used on an approximate half time basis for stormwater-related tasks, and is occasionally used by the Water Department as well. The Town also has a Sweeper truck which is used daily in the center of Town as well as weekly on pre-assigned routes in other areas.

Construction, when needed, is handled either by Town crews for smaller projects or under contract for larger projects. Several issues are known to exist. For example, the Town is currently repairing a storm sewer located adjacent to a sludge drying bed at the Town's wastewater treatment plant that is badly eroded at the outfall. There are also plans to construct another two or three retrofit projects in the next 12 months using State 319 Funds and 2011 Trust Funds. As mentioned earlier, the ongoing maintenance of the existing stormwater retrofit projects in addition to the proposed projects will be the responsibility of the Town personnel.

Expenditures

The Vac-tron was estimated by staff to cost approximately $30,000. It requires a two person crew to operate and if used on a half-time basis, this equates to one full-time equivalent (FTE) position. Another FTE is needed for the Sweeper truck. Mowing of open channels necessitates a two person crew but at an estimated one quarter time. Miscellaneous maintenance work also necessitates a two person crew at an estimated one quarter time. Collectively, these tasks result in one FTE. The Public Works Superintendent spends approximately one quarter time on stormwater-related issues as does the Watershed Manager.

Current staffing is considered adequate but not excessive. Enhancing the stormwater program or assuming additional responsibilities as described below could result in the need for additional employees. Also, the Sweeper vehicle is approximately 10 years old and will need to be replaced in the not too distant future.

Needs and Priorities

Ponding in roads often occurs after heavy rains which can create nuisance issues of splashing water as well as safety concerns when ponded water freezes in the winter. In addition to obvious safety concerns, ponding water on roadways can also cause deterioration of paving, base courses and subgrade.

Conditions such as this can be caused by any number of factors such as lack of maintenance, undersized or insufficiently sloped pipes, inlets with insufficient openings, or a general lack of inlets. The Town's inspection and street sweeping program indicates that maintenance is not a likely cause. Major construction would be needed to remedy an undersized system. Although field reconnaissance indicated a generally sound system, portions of the drainage system in the older parts of Town may soon reach the end of their service life and could need rehabilitation in coming years.

The Town also lacks a comprehensive inventory of its drainage structures. URS identified and located just under 700 inlets using Global Positioning System (GPS) equipment during the preparation of this report. In order to complete the inventory, connectivity between these inlets is still needed as well as pipe size and materials. Ideally, information including the approximate age of inlets and pipes would be required in order to develop a more accurate asset management database. Such a management system would enable better tracking of maintenance tasks and allow for a more accurate projection of future restoration costs.

There are currently 43 stormwater management basins and other stormwater best management practices (BMPs) within Centreville. Most of these are privately owned and maintained. The advantages and disadvantages of the Town assuming a more active role in the maintenance of these facilities is discussed in Section Five.

There are two Federal programs each deriving from the Clean Water Act that the Town needs to consider. The first, Total Maximum Daily Loads (TMDLs) has already resulted in expenditures by the Town as noted in Section Two. The second is the National Pollutant Discharge Elimination System (NPDES) permitting program for Municipal Separate Storm Sewer Systems (MS4s).

In 1996, the Corsica River was identified by the State of Maryland's list of water quality limited stream segments impaired by nutrients. TMDLs for nitrogen and phosphorus were subsequently determined. The goal of these TMDLs is to reduce high chlorophyll-a concentrations and maintain dissolved oxygen standards at levels where the designated uses for the Corsica River will be met. Load allocations were established for both point and nonpoint sources. While low flow allocations are based on design flows at the Centreville wastewater treatment plant, which is covered by a discharge permit, average and high flow allocations need to be achieved through nonpoint source pollution reduction programs. Efforts to meet the nonpoint source aspects need to be implemented or continued. Specifically, the Town's actions are integral to the success of the Corsica River Watershed Restoration Action Strategy. TMDLs have also been established for the Corsica River for Fecal Coliform, and TMDLs are pending at EPA for Polychlorinated Biphenyls (PCBs). It is also noted that the County and Town's Water Resources Element of the Comprehensive Plan has recently been adopted by both the County Commissioners and Town Council.

Hundreds of cities and counties across the country have their stormwater discharges regulated under the NPDES MS4 program. This program essentially presumes that non-point source pollution will be reduced in jurisdictions with a comprehensive and successful program. Inclusion in the permitting program is based on population and density. Requirements and policies of this program are set by the U.S. Environmental Protection Agency (EPA) but it is administered in Maryland by the State Department of the Environment (MDE). As previously noted, EPA has indicated its intent to expand the program to more geographic areas as well as focus on jurisdictions within critical watersheds such as the Chesapeake Bay. Eventually, Centreville may be required to obtain and subsequently comply with the conditions of an NPDES stormwater permit. EPA is also using the NPDES program as a vehicle to implement TMDLs in other parts of the country and many of the projects recently undertaken by Centreville on a voluntary basis may some day become mandatory.

The NPDES Phase II program has six components:

- Public education and outreach
- Public participation and involvement
- Illicit discharge detection and elimination
- Construction site stormwater runoff control
- Post construction stormwater management in new development and redevelopments
- Pollution prevention and good housekeeping for municipal operations and maintenance

Costs on a per capita basis vary significantly across the country, but a moderate program could be funded for $10 per person annually or about $35,000 annually.

Other Agencies Performing Services in Centreville

While Town employees perform a majority of stormwater-related work in Centreville, there are other agencies that are also active. As previously noted, the Maryland State Highway Administration has responsibility for drainage system within State rights-of-way and Queen Anne's County performs reviews and inspections of stormwater management facilities related to new construction. MDE provides regulatory oversight for many of the water quality requirements such as stormwater management, erosion and sediment control, and TMDLs. Finally, the Maryland Department of Natural Resources (DNR) provided the funding for this Feasibility Study and also provided technical assistance with the preparation of the Corsica River Watershed Restoration Action Strategy (WRAS).

The Town of Centreville sponsored the WRAS that, according to DNR, makes the action strategies unique in Maryland. The actions recommended in the WRAS include urban stormwater retrofits, public education and outreach, and the implementation of low impact development strategies. Several recent Town projects including the wooded wetlands project adjacent to the wastewater treatment plant, the coastal plain outfall at the end of Banjo Lane, and the Low Impact Development (LID) Restoration Master Plan were all constructed or prepared as a result of the WRAS. Also, the nonprofit Corsica River Conservancy has multiple efforts aligned with the strategies. The Conservancy's four groups: Water Testing, Restoration, Education and Public Information, and Outreach are active throughout the watershed.

SECTION THREE. EXISTING PROGRAM AND PROJECTED FUTURE EXPENDITURES

Expenditures coinciding with the Existing Program activities, as detailed in Section Two, have been summarized into spreadsheet format provided in Appendix A. It is assumed that the development and implementation of a stormwater utility would likely take at least a year and therefore the expenditures are shown in Year 0. These expenditures were projected out five years using an escalation factor of 2.5 percent to present more than just a "snapshot" of needs and approaches.

Projected future costs coinciding with program improvements were derived by interviews with Town personnel, field work performed by URS, and review of provided documents. Three potential levels of service (LOS) were evaluated and are also shown on the spreadsheet entitled Estimates of Expenditures in Appendix A.

Level of Service One – "Essential"

Level of Service One includes the Existing Program as summarized in Section Two as well as hardware and software costs that would be incurred should a stormwater utility be implemented. These would include establishing a new accounting and billing process and an estimate of $20,000 spread over two years has been assumed. A figure of $33,000 was used for the replacement of the Vac-tron (to account for price increases in five years from the current estimate of $30,000) and $100,000 assumed for the street sweeper (spread out over three years to lessen the impact). Level of Service One also includes payments into a capital recovery fund or bond payments to enable major capital projects to be undertaken such as drainage inlet and pipe repair and replacement as well as funds for maintenance of retrofit projects previously undertaken by the Town. Finally, a more detailed inventory of the drainage infrastructure (inlets, pipes, and outfalls) is also included.

Level of Service Two – "Enhanced"

Level of Service Two includes Level of Service One expenditures plus projects that begin moving the Town towards a more proactive approach to managing stormwater. Principally among these is construction and subsequent maintenance of low impact stormwater management facilities as recommended in the LID Restoration Master Plan prepared by EcoSite, Inc. Level of Service Two also includes compliance with TMDLs and a placeholder of $10,000 has been assigned until a program is better defined. These activities would necessitate additional staff time and, in addition, a 10 percent increase over current expenditures has been assumed.

Level of Service Three – "Optimal"

Level of Service Three includes Level of Service Two expenditures but more aggressively advances the proactive approach. It includes a higher level of treatment per the LID Master Plan. More significantly, it includes the maintenance of stormwater management basins as well as payments into a capital recovery fund or bond payments to enable retrofits should the Town decide to assume this responsibility. (Please refer to the policy discussion located in Section Five). Finally, Level of Service Three also includes compliance with the NPDES MS4 permit program. Though Centreville is not currently required to obtain a permit for its stormwater discharges, pending changes in the program by EPA could one day necessitate such coverage. A per capita cost of $10 is being used which is a rough nationwide estimate of program costs. These activities would also necessitate additional staff time and a 20 percent increase over current expenditures has been assumed.

SECTION FOUR. REVENUE COLLECTION FRAMEWORK

There is a direct correlation between amount of impervious surface and the rate and volume of runoff resulting from storm events on any given property. Since this runoff is handled by a public storm conveyance system once it leaves the property, in a stormwater utility scenario, those contributing more flow should be responsible for contributing more revenue as well. Rates for water, sewer, and electric services are determined in a similar fashion. In the case of stormwater though, there is no way to place a meter to measure runoff so the use of Equivalent Residential Units (ERUs) was developed as a commonly accepted and equitable measure. ERUs are intended to represent the amount of imperviousness on an average residential parcel and provide a common measure to compare residential and nonresidential properties. For example, if an ERU of 2,500 square feet is assigned, a property with 10,000 square feet of impervious coverage would represent four ERUs. Other mechanisms do exist that are similar but this study principally followed the ERU concept.

If a stormwater utility is to be formed, the fee level associated with the program requirements would need to be established and the residents' and merchants' willingness to pay determined. It also needs to be determined how the State's and Town's roads will be handled and what sort of credits could be put into place to recognize those areas already providing stormwater management. Finally, other funds need to be accounted for such as grants which may be available to supplement the program.

Stormwater Utility Fees

The impervious coverage associated with five land uses in Centreville (single family residential, multi-family residential, commercial / industrial, public / institutional, and roads) was estimated through GIS evaluations. (See Figure 3.) These evaluations indicated that the amount of impervious surface for the average single-family detached residential property in Centreville is approximately 3,200 square feet. Therefore, this figure is used as the ERU. The number of ERUs for each of the land uses was determined by simply dividing the total calculated impervious coverage by the ERU figure of 3,200 square feet.

A framework for deriving revenues under this concept is shown in Appendix B. This spreadsheet includes the square footage of impervious coverage and the ensuing number of ERUs associated with the five principle land uses: single family residential, multi family residential, commercial / industrial, public / institutional, and roads.

Again referring to the Revenue Collection Framework spreadsheet, the column Existing Program (no SW utility) shows that revenues for current expenditures are derived solely from general fund transfers. Since the Existing Program as defined in Section Three represents staff time only, grants under this column are shown as zero even though Centreville has a demonstrated history of success in obtaining grants (such as the DNR grant used to fund this study).

The column Example Unit Rate shows how much revenue would be collected from each land use category with an ERU rate of $1.00. These unit values were extrapolated for other ERU rates (not shown) such that rates corresponding to each level of service could be estimated. These are shown in columns Existing Program, Level of Service One, Level of Service Two, and Level of Service Three. Note that the latter Existing Program column differs from the former Existing Program (no SW utility) column in that it projects expenditures five years into the future, assumes that general fund transfers cease, and shows continued success obtaining grants to offset program costs.

Alternatives to this type of ERU approach exist. The impervious amount of cover on each and every residential parcel could be determined. This approach would likely result in a more accurate and equitable overall assessment but could be an administrative burden as there are over 1,300 single family residential properties in Centreville. Conversely, a rate could be determined for each residential zoning district by accounting for relative differences in lot sizes and building footprints among the zones.

In order to provide an evaluation of options, the 2007 Stormwater Utility Survey prepared by Black and Veatch, which received responses from 70 utilities around the country, was reviewed in this context. It found that 39 percent of respondents determined rates on an individual parcel basis and another 16 percent use a multi-tiered or by-zoning district approach. The Survey also found that 45 percent use a single tier basis as was utilized in the study. Other variations include what some utilities refer to as a development intensity factor which is essentially a ratio of impervious cover to total lot area.

A single or tiered rate is far simpler and less costly to administer. This is important as Centreville is a small municipality and does not have the same administrative capacity as the larger cities that have implemented stormwater utilities. However, this approach does not provide an incentive to reduce impervious cover on single family parcels (unless structured as part of a credit program as described in following sections) which could be an important goal of the Town. If lot-specific rates were used instead of a single or district-wide rate, a mechanism would be needed to periodically update the impervious coverage for each lot. Commonly used methods include the tracking of building permits or new aerial photographs and subsequent re-assessment every few years.

Credits and Exemptions

Stormwater management practices employed on some properties may result in a lesser runoff contribution to the drainage system than comparable properties. Examples include detention / retention basins maintained by homeowners associations or disconnecting impervious areas (discharging roof downspouts onto green areas instead of paved areas), installing rain barrels, or placing porous pavement in lieu of concrete or asphalt by commercial or industrial property owners. Since these types of activities theoretically reduce the burden on the agency responsible for drainage, various credit programs have been developed. Less quantifiable, but still worthy of credits, are programs such as public education activities. Similarly, lot characteristics such as soil types or vegetation could be considered for credits as well but these are much more difficult to define.

For this study, a credit for the approximate 660 residential properties draining to privately-maintained detention or retention basins was assumed. Also, placeholders for two commercial / industrial credits were included. For demonstration purposes, these were shown as 25 percent. In other words, if the ERU rate was set at $1.00, these residences and businesses would be assessed a rate of $0.75.

A thorough assessment of credit programs nationwide was prepared by AMEC Earth and Environmental in 2007. They compiled data from 50 utilities in all areas of the country. When asked why certain types of credits were not employed, it was commonly answered that the combined cost to the utility to administer the credit as well as the applicant to apply for it often greatly exceeded the amount of the credit. Such a program would complicate a fee system that otherwise should be as simple as possible and would also necessitate audits to assure that the rationale for a credit, such as an on-site detention/retention basin, is functioning properly. Another approach would be to allow credits in non-residential situations only, but then use utility revenues to fund programs in residential areas such as rain barrel installations. Still, a system without credits provides little in the way of incentives for residents to reduce their contribution to the system and therefore should be considered if the Town Council opts to begin utility implementation. Finally, any credit program needs to be based on clear goals and objectives and not done in a piecemeal fashion.

Tax exempt properties, such as State and County lands, churches, or not-for-profit enterprises, create another, often difficult situation. On one hand, they are exempt from property taxes and a stormwater utility fee is essentially a property-based fee. On the other hand, the impervious surfaces on these properties and the resulting runoff must be managed as with any other property. Though the legalities of such fee assessments vary from state to state, courts have typically ruled that assessing a stormwater utility fee on tax-exempt properties is legitimate. This assessment assumed that tax-exempt properties in Centreville would contribute to a stormwater utility in the same way that every other property would. (State and County buildings, while exempt from Town property tax, pay water and sewer fees based on usage.)

The exception to this would be public roadways as these are most often owned by the jurisdiction proposing the utility. For this study it was assumed that roadways, both State and Town, would be exempted. As shown in the Revenue Collection Framework spreadsheet, these make up about a third of the impervious cover in Centreville. If this exemption were not included, the overall rates would decrease accordingly but would also result in the Town essentially paying a fee to itself. However, the decision could be made to exempt Town roads but not those roads owned by the State. Such a decision could have other ramifications. For comparison, the Black and Veatch survey found that 61 percent of utilities exempt roadways.

Assessment

The Revenue Collection Framework spreadsheet provided in Appendix B is intended to demonstrate how revenues would be collected. It is based on numerous assumptions and the rates shown are for example only and should not be used for any type of budgeting projection. In addition to fine-tuning the impervious cover calculations, decisions regarding transfer amounts from the general fund, inclusion or exclusion of grants, and appropriateness and magnitude of credits and exemptions would need to be made before deriving any accurate assessment. These would be the focus of the second phase.

The Black and Veatch Survey also inquired as to the adequacy of program funding. It found that only 8 percent are able to meet all needs, 39 percent meet most needs, and 40 percent meet most urgent needs. Conversely, 13 percent stated available funds are not adequate to meet urgent needs. This indicates that utilities by and large are somewhat underfunded, but this is not a situation unique to stormwater utilities.

Figure 3

SECTION FIVE. RECOMMENDATIONS

Overview

This Study sought to provide a framework for a stormwater utility and establish its feasibility. The creation of a stormwater utility in Centreville, with its own revenue based on impervious cover, would result in a stable, equitable, and dedicated funding source. It is recommended that the Town proceed with the second phase to resolve the issues highlighted below.

Assuming a second phase is initiated, the Town should anticipate that there will be multiple perspectives to be balanced and concerns to be considered. However, the Town and its residents should keep in mind that the "no action" alternative is not desirable. At the very least, it is recommended that internal changes be implemented such that costs and expenditures related to stormwater are more apparent. If Centreville becomes permitted under mandates such as the NPDES program, accurate accounting could make it easier to demonstrate compliance.

Since Centreville derives a substantial portion of its revenues from property taxes, the Town should be aware that if a utility funding mechanism is not adopted, a somewhat inequitable system will continue to exist. Property taxes are based on assessed value but a large, mostly impervious parcel may pay less in property taxes than a smaller parcel with less impervious surfaces.

It is recommended that the Town create a citizen advisory committee to assure that stakeholders such as business organizations, residential groups, churches, other governmental organizations, etc., are adequately represented in the utility development process. This will better assure that the program developed matches resident's needs and expectations. Furthermore, having community leaders involved in the decision-making process could help with community buy-in. If utility development does proceed, at least one, if not more, public meetings would be advisable to better determine residents' and merchants' willingness-to-pay.

Utility Rates

If a utility is implemented, the basis for the fee will need to be decided. This study was based on the assumption that all residential properties pay the same ERU rate regardless of their size. From an administrative approach, this is certainly the most expedient method, but could result in lots with lesser amounts of impervious coverage subsidizing lots with greater amounts. The Town has the option of determining the impervious coverage either on each and every lot or by zoning district. The parcel-by-parcel approach could provide an incentive for homeowners to reduce the impervious cover on their lot but needs to be weighed against the increased costs to determine the degree of imperviousness. The zoning district average approach, more or less, balances administrative efficiency with equity. A variation to these approaches would be to use a development intensity factor which is a ratio of impervious cover to total lot area.

Some jurisdictions have found it advantageous to enact a low fee initially and then increase it gradually over time. This has the benefit of segueing to a new revenue collection method and softening the impact of the new fee. However, proceeding in this manner could prove unwise if the initial rate is set too low. Once residents begin paying a fee, they will expect to see some results and if the program is underfunded, public support could waiver. It may be better to set the fee based on a five year projection of program expenditures.

Whatever rate is determined and allowances or credits offered, the overall collection program will need to be equitable in that those contributing greater loads to the drainage system pay a proportionally greater amount than those contributing lesser loads. There will also need to be a clear relationship between the stormwater expenditures and the collected revenues. If a utility fee is implemented, it cannot be used for non-stormwater purposes or placed in the general coffers for other uses.

Expenditures and Revenue Estimates

Another recommendation relates to the spreadsheet assessment shown in Appendix A. The expenditure portion of this was based on a combination of field reconnaissance and interviews with Town personnel. These estimates would need to be refined. If a utility is implemented and then legally challenged, the Town will need to clearly show that the basis for the fee and the anticipated expenditures are reasonably accurate. If it is found that revenues significantly in excess of needs are being collected, the justification for the utility could be compromised.

The revenue collection portion of the spreadsheet is based on an approximation of impervious coverage (from 2008 aerial photography) using GIS shape files. It is likely that more recent aerial photography with a more exacting calculation of impervious surfaces would be needed prior to the enactment of a stormwater utility. It is noted that the limited scope of work for this Study did not allow for field verification of imperviousness calculations.

A mechanism will also be needed to update the impervious calculations. Assuming Centreville utilizes the ERU concept, either Town-wide or by zoning district, impervious calculations would not be needed in residential areas. However, a tracking mechanism would be needed if a parcel-by-parcel approach was used as well as for non-residential properties such that building additions or parking lot expansions are included in fee calculations. Aerial photographs are periodically taken, but years could go by between flights and revenue could be lost if not up-to-date. A better process may be to track additions and expansions through the building permit process and manually update the billing records of the affected properties. Finally, an appeals mechanism will also be needed for parcels that may be erroneously calculated.

Credits and Exemptions

As noted in Section Four, the use of credits and exemptions needs to be carefully evaluated.

There are 43 stormwater management structures in Centreville of which 41 are privately owned and maintained. If these will remain in private hands, a credit may need to be established for their residents as discussed herein. Alternatively, the Town could seek to assume the maintenance responsibilities in which case a credit would not be appropriate (please see below). In fact, the increased costs accordingly would need to be accounted for. Some jurisdictions are taking over the maintenance of private basins under the premise that these entities often lack the financial and technical resources to do so and that public maintenance may eventually be required by the regulatory agencies. Credits could also be established for residents but the administrative burden of managing this aspect of the program may be prohibitive.

Another approach would be to allow credits in non-residential situations only, but then use utility revenues to fund grant programs in residential areas such as rain barrel installations. Similarly, a business could seek a reduction if it underwrites a public education effort or stream clean up. Since the number of businesses is much smaller than the number of residences, administrative costs would be comparatively less. Any credit program would need to be as simplistic as possible and enacted with clear goals and objectives and not piecemeal.

Policy Implications

One of the most difficult issues regarding surface water management in Maryland and throughout the country is the reliance on private entities for the maintenance of stormwater management structures.

The problem is twofold. First, while homeowner associations (HOAs), in general, perform minimum upkeep like grass cutting, other tasks such as the control of invasive plants, repair of eroded banks, or removal of obstructions from outlets often are not performed which can increase future major maintenance costs. This situation will be compounded as stormwater practices shift away from centralized basins to more dispersed BMPs since the number of structures or facilities needing maintenance will grow more quickly and expertise to address these environmentally complex structures more difficult to obtain. (It should be noted that the Maryland Stormwater Act of 2007 and the ensuing Regulations generally required multiple BMPs and only allow centralized facilities as a last resort.)

Second, even if minor maintenance activities are adequately performed, it is doubtful that many HOAs are setting money aside for major maintenance such as reconstruction which can cost upwards of $50,000 and, in certain cases much more, depending on size and location of the facility.

Assumption of maintenance responsibilities by the Town would be advantageous for a number of reasons. HOA officers, who are often lay people, would be relieved from the burden of maintaining their community's basins and BMPs better assuring the public at-large that this critical aspect of the overall drainage system is functioning properly. Total expenditures would be reduced if a single agency performed the maintenance work and / or oversaw contractors due to economies of scale. Most importantly, water quality in the Town would be improved through enhanced maintenance.

There are, of course, potential downsides that need to be considered as well. The costs associated with annual maintenance as well as the inevitable retrofits could significantly increase revenues needed to run the stormwater program. The Town could seek upfront payments from HOAs in exchange for relieving them of their responsibilities; however, agreeing to a reasonable amount could be problematic. If underestimated, increased revenues would be needed from other portions of the Town potentially raising fairness issues. However, HOA residents could counter-argue that their subdivisions have stormwater controls whereas many parts of Centreville do not and they could therefore claim that residents in other parts of Town are the ones being subsidized.

In the end, any such policy change would need to be fully vetted in the public arena with advantages and disadvantages fully explored.

Legal Issues

The legal consequences of enacting a stormwater utility in Centreville need to be evaluated in concert with the Town's Attorney. The Black and Veatch survey indicated that nearly one quarter of utilities are legally challenged. As noted, it is extremely important that a fee be established that is proportional to users' contributions to the system and is directly related to the amount of stormwater expenditures needed and reasonably anticipated. It is vitally important that the Town have the legal authority to enact such a fee.

Conclusion

The final phase of utility implementation would necessitate two broad actions by the Town to effectively resolve the issues described in these recommendations:

Create a Citizens Advisory Committee – The Committee, comprised of a diverse group of stakeholders, would better define the program and assure that it matches residents' and merchants' expectations and willingness-to-pay. The Committee could also hold public forums on utility development. A clear mission with overall time frame would be needed from the Town to assure the group stays focused.

Prepare a Business Plan – A utility cannot be created without a solid foundation. A Business Plan which would build upon, but better detail and fine tune, the expenditure and revenue estimates presented herein is essential. The Plan would also address various implementation details and resolve policy issues.

This completes the Stormwater Utility Feasibility Study for the Town of Centreville. Some jurisdictions have conducted similar assessments only to decide that a utility is not appropriate for them at the current time or under existing conditions. In other words, there is nothing improper with evaluating the potential for utility development and then deciding to not pursue it further. However, proceeding without necessary due diligence and understanding of residents' expectations and then failing in the implementation could be very problematic. This study is intended to provide the guidance necessary if a consensus is reached that a stormwater utility is best for Centreville.

APPENDIX A

CENTREVILLE, MARYLAND STORMWATER UTILITY FEASIBILITY STUDY

ESTIMATES OF EXPENDITURES

Escalation Factor 2.50 %

	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5
Existing Program						
Vac-tron (2 person crew @ 1/2 time)	$50,000	$51,300	$52,600	$53,900	$55,200	$56,600
Sweeper truck (one employee @ full time)	$50,000	$51,300	$52,600	$53,900	$55,200	$56,600
Mowing and miscellaneous maintenance (equiv. to one person full time)	$50,000	$51,300	$52,600	$53,900	$55,200	$56,600
Public Works Superintendant (1/4 time)	$20,000	$20,500	$21,000	$21,500	$22,000	$22,600
Watershed Manager (1/4 time)	$25,000	$25,600	$26,200	$26,900	$27,600	$28,300
Existing Program	**$195,000**	**$200,000**	**$205,000**	**$210,100**	**$215,200**	**$220,700**
Level of Service One - Essential						
Utility Set Up Costs		$10,000	$10,000	$0	$0	$0
Capital Recovery Fund or Bond Payments for Capital Projects		$25,000	$25,625	$26,266	$26,922	$27,595
Replacement of Vac-tron		$0	$0	$0	$0	$33,000
Replacement of Street Sweeper		$0	$33,000	$33,000	$33,000	$0
Maintenance of Previously Completed Retrofit Projects		$5,000	$5,125	$5,253	$5,384	$5,519
Preparation of Drainage Inventory		$10,000	$0	$0	$0	$0
Level of Service One Subtotal (incl. Existing Program)		**$250,000**	**$278,750**	**$274,619**	**$280,507**	**$286,814**
Level of Service Two - Enhanced						
Additional staff time (10 percent increase over existing program)		$20,000	$20,500	$21,010	$21,520	$22,070
LID Restoration Projects (control of 1 inch storm event)		$89,000	$91,225	$93,506	$95,843	$98,239
LID Projects Maintenance		$12,500	$12,813	$13,133	$13,461	$13,798
Nonpoint Source Reduction Programs (TMDLs) *		$10,000	$10,250	$10,506	$10,769	$11,038
Level of Service Two Subtotal (incl. Exist. Prog. and LOS One)		**$381,500**	**$413,538**	**$412,773**	**$422,100**	**$431,960**
Level of Service Three - Optimal						
Additional staff time (20 percent increase over existing program)		$40,000	$41,000	$42,020	$43,040	$44,140
LID Restoration Projects (higher level of control)		$77,000	$78,925	$80,898	$82,921	$84,994
Stormwater Management Basin Maintenance ($2,000 each x 50 facilities)		$100,000	$102,500	$105,063	$107,689	$110,381
Capital Recovery Fund or Bond Payments for Basin Retrofits		$50,000	$51,250	$52,531	$53,845	$55,191
Permitting Compliance (NPDES) *		$35,000	$35,875	$36,772	$37,691	$38,633
Level of Service Three Subtotal (incl. Exist. Program and LOS One and Two)		**$683,500**	**$723,088**	**$730,057**	**$747,285**	**$765,299**

* = regulatory programs

APPENDIX B

CENTREVILLE, MARYLAND STORMWATER UTILITY FEASIBILITY STUDY

REVENUE COLLECTION FRAMEWORK

ERU size	3,200 square feet		Existing Program (no SW utility)	Example Unit Rate	Existing Program	Level of Service One	Level of Service Two	Level of Service Three
Unit Rate per ERU/Month			**$0.00**	**$1.00**	**$5.87**	**$8.15**	**$13.14**	**$24.61**
Unit Rate per 1,000 sq. ft./month			**$0.00**	**$0.31**	**$1.83**	**$2.55**	**$4.11**	**$7.69**
Utility Revenue	**ft^2**	**ERU's**						
Single Family Residential	4,267,138	1,333	$0	$16,002	$93,959	$130,350	$210,243	$393,724
Multi Family Residential	162,043	51	$0	$608	$3,568	$4,950	$7,984	$14,952
Commercial / Industrial	2,691,137	841	$0	$10,092	$59,257	$82,207	$132,593	$248,308
Public / Institutional	1,400,018	438	$0	$5,250	$30,827	$42,767	$68,979	$129,178
Roads	3,957,426	1,237	$0	$14,840	$87,139	$120,889	$194,983	$365,147
Utility Revenue Subtotal			**$0**	**$46,792**	**$274,750**	**$381,164**	**$614,782**	**$1,151,308**
Other Revenue								
Transfer from General Fund			$195,000	$0	$0	$0	$0	$0
Grants			$0	$50,000	$50,000	$50,000	$50,000	$50,000
Utility and Other Revenue Subtotal			**$195,000**	**$96,792**	**$324,750**	**$431,164**	**$664,782**	**$1,201,308**
Credits								
Credit Amount	25.00 %	**ERU's**	$0.00	$0.25	$1.47	$2.04	$3.28	$6.15
Residences with SWM basins		660	$0	($1,980)	($11,626)	($16,129)	($26,015)	($48,718)
Commercial Credit 1 (for example)		200	$0	($600)	($3,523)	($4,888)	($7,883)	($14,763)
Commercial Credit 2 (for example)		100	$0	($300)	($1,762)	($2,444)	($3,942)	($7,382)
Credits Subtotal			**$0**	**($2,880)**	**($16,911)**	**($23,460)**	**($37,840)**	**($70,862)**
Exemptions								
Exemption Amount		**ERU's**	$0.00	$1.00	$5.87	$8.15	$13.14	$24.61
Roads	3,957,426	1,237	$0	($14,840)	($87,139)	($120,889)	($194,983)	($365,147)
Exemptions Subtotal			**$0**	**($14,840)**	**($87,139)**	**($120,889)**	**($194,983)**	**($365,147)**
Credits and Exemptions Subtotal			**$0**	**($17,720)**	**($104,050)**	**($144,350)**	**($232,823)**	**($436,009)**
Revenues minus Credits and Exemptions			**$195,000**	**$79,071**	**$220,700**	**$286,814**	**$431,960**	**$765,299**

ATTACHMENT 1

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5038	Inlet	A J (Double)	street	Brick

Inspection Date	Inspection Time	Weather
5/19/2010	3:00	Overcast

Development	Address Prefix	Street	address_suffix
		Kidwell	50' east of Tilghman Ave

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	con/asp	0	

Grate Type	Grate Condition	Grate Defect Description
Parallel Bar	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☑		2	0	cast iron material

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Brick	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5039	Inlet	Double A J	street	Brick

Inspection Date	Inspection Time	Weather
5/19/2010	2:00	Overcast

Development	Address Prefix	Street	address_suffix
	208	Kidwell Avenue	front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Parallel Bar	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Concrete	0	1	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Brick	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5060	Inlet	B	street	Brick

Inspection Date	Inspection Time	Weather
5/19/2010	1:00	Overcast

Development	Address Prefix	Street	address_suffix
	319	Little Kidwell Drive	front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Parallel Bar	0	

Inlet	Inlet Condition	Inlet Defect Description
☐	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Brick	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5061	Inlet	Double "B"	street	Brick

Inspection Date	Inspection Time	Weather
5/19/2010	1:00	Overcast

Development	Address Prefix	Street	address_suffix
	324	Little Kidwell Drive	

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Parallel Bar	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Brick	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5071	Inlet	2 X B	street	Brick

Inspection Date	Inspection Time	Weather
5/19/2010	2:00	Overcast

Development	Address Prefix	Street	address_suffix
		Brown Street	at white building

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Parallel Bar	0	

Inlet	Inlet Condition	Inlet Defect Description
☐	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☑	PVC	3	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Brick	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5076	Inlet	B	street	Brick

Inspection Date	Inspection Time	Weather
5/19/2010	2:00	Overcast

Development	Address Prefix	Street	address_suffix
	110	Brown St	front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	Asp/con	0	

Grate Type	Grate Condition	Grate Defect Description
Parallel Bar	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Brick	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5108	Inlet	A J	Street	Brick

Inspection Date	Inspection Time	Weather
5/14/2010	11:00	Overcast

Development	Address Prefix	Street	address_suffix
	120	Hope Road (Rt 305)	Front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	Asphalt	0	

Grate Type	Grate Condition	Grate Defect Description
Reticuline	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	3	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Brick	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5112	Inlet	AJ	street	Brick

Inspection Date	Inspection Time	Weather
5/14/2010	1:00	Sunny

Development	Address Prefix	Street	address_suffix
	204	Hope Road	(305) front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	con/asphalt	0	

Grate Type	Grate Condition	Grate Defect Description
Reticuline	0	

Inlet	Inlet Condition	Inlet Defect Description
☐	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Brick	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5113	Inlet	AJ	street	Brick

Inspection Date	Inspection Time	Weather
5/14/2010	1:00	Sunny

Development	Address Prefix	Street	address_suffix
	213	Hope Rd	(305) front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	asphalt	0	

Grate Type	Grate Condition	Grate Defect Description
Reticuline	0	

Inlet	Inlet Condition	Inlet Defect Description
☐	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Brick	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5120	Inlet	AJ	street	Brick

Inspection Date	Inspection Time	Weather
5/14/2010	2:00	Sunny

Development	Address Prefix	Street	address_suffix
	116	Kings Ct	front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	con/asphalt	0	

Grate Type	Grate Condition	Grate Defect Description
Reticuline	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Brick	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5122	Inlet	AJ	street	Brick

Inspection Date	Inspection Time	Weather
5/14/2010	2:00	Sunny

Development	Address Prefix	Street	address_suffix
	115	Kings Ct	front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	con/asphalt	0	

Grate Type	Grate Condition	Grate Defect Description
Reticuline	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Brick	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5123	Inlet	AJ	street	Brick

Inspection Date	Inspection Time	Weather
5/14/2010	2:00	Sunny

Development	Address Prefix	Street	address_suffix
	138	Kings Ct	front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	con/aspalt	0	

Grate Type	Grate Condition	Grate Defect Description
Reticuline	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Brick	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5124	Inlet	COG	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/14/2010	12:00	Sunny

Development	Address Prefix	Street	address_suffix
	235	Heritage Way	side of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	2	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☑	PVC	2	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5127	Inlet	COG	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/14/2010	12:00	Sunny

Development	Address Prefix	Street	address_suffix
	235	Heritage Way	Side of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	2	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☑	PVC	1	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☐		0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5128	Inlet	COG	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/14/2010	12:00	Sunny

Development	Address Prefix	Street	address_suffix
	236	Heritage Way	side od , at pond

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	1	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5131	Inlet	COG	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/14/2010	12:00	Sunny

Development	Address Prefix	Street	address_suffix
		Heritage Way	Top of retention Pond at fence

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	2	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5133	Inlet	COG	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/14/2010	1:00	Sunny

Development	Address Prefix	Street	address_suffix
	148	Autumn Lane	front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	2	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5135	Inlet	COG	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/14/2010	1:00	Sunny

Development	Address Prefix	Street	address_suffix
	135	Autumn Lane	front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	1	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5139	Inlet	COG	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/14/2010	2:00	Sunny

Development	Address Prefix	Street	address_suffix
	219	Autumn Lane	front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	2	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5140	Inlet	COG	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/14/2010	2:00	Sunny

Development	Address Prefix	Street	address_suffix
	225	Autumn Lane	Front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	2	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5141	Inlet	AJ	street	Brick

Inspection Date	Inspection Time	Weather
5/14/2010	12:00	Sunny

Development	Address Prefix	Street	address_suffix
	305	Inter Walnut St & Hop Rd	

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	con/asp	0	

Grate Type	Grate Condition	Grate Defect Description
Reticuline	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Brick	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5142	Inlet	AJ	street	Brick

Inspection Date	Inspection Time	Weather
5/14/2010	12:00	Sunny

Development	Address Prefix	Street	address_suffix
	305	Inter of Walnut St & Hope Rd	

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Reticuline	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Brick	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5143	Inlet	COG	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/14/2010	11:00	Sunny

Development	Address Prefix	Street	address_suffix
	138	Cypress Ct	Front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	1	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☑	PVC	3	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5145	Inlet	COG	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/14/2010	11:00	Sunny

Development	Address Prefix	Street	address_suffix
	160	Cypress Ct.	Front of pond

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	1	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☑	PVC	2	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5146	Inlet	AJ	Street	Brick

Inspection Date	Inspection Time	Weather
5/14/2010	11:00	Sunny

Development	Address Prefix	Street	address_suffix
		Pine St & Hope Rd	

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	Con/Asphalt	0	

Grate Type	Grate Condition	Grate Defect Description
Reticuline	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Brick	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5147	Inlet	AJ	street	Brick

Inspection Date	Inspection Time	Weather
5/14/2010	11:00	Sunny

Development	Address Prefix	Street	address_suffix
		Pine Street & Hope Road	

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	Asphalt/con	0	

Grate Type	Grate Condition	Grate Defect Description
Reticuline	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Concrete	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5159	Inlet	cog		Pre Cast

Inspection Date	Inspection Time	Weather
5/14/2010	9:00	Overcast

Development	Address Prefix	Street	address_suffix
	164	Edenderry Ave	Front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	Concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	2	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5177	Inlet	COG	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/14/2010	10:00	Overcast

Development	Address Prefix	Street	address_suffix
	108	Gronard Ave	Front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	Concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5192	Inlet	COG	Street	Pre Cast

Inspection Date	Inspection Time	Weather
5/14/2010	9:00	Overcast

Development	Address Prefix	Street	address_suffix
	136	Banbridge Ave	

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	Concrete	0	Concrete

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5210	Junction Box	manhole	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/14/2010	10:00	Overcast

Development	Address Prefix	Street	address_suffix
			Inter of FieldCroft Way and Brook Run Lane

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	Ssphalt	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☐	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5247	Inlet	COG	Street	Pre Cast

Inspection Date	Inspection Time	Weather
5/14/2010	10:00	Overcast

Development	Address Prefix	Street	address_suffix
	246	Northfield Way	Front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	Concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5285	Inlet	COG	Street	Pre Cast

Inspection Date	Inspection Time	Weather
5/14/2010	10:00	Overcast

Development	Address Prefix	Street	address_suffix
	607	Brookfield Drive	Front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	Concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	1	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5309	Inlet	COG	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/14/2010	10:00	Overcast

Development	Address Prefix	Street	address_suffix
	109	East Meadow Dr	Front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	Concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5349	Inlet	B	street	Concrete

Inspection Date	Inspection Time	Weather
5/14/2010	2:00	Sunny

Development	Address Prefix	Street	address_suffix
		Inter of Windsor Ave & Newm	

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Perpendicular	0	Perpend bar (seized grate)

Inlet	Inlet Condition	Inlet Defect Description
☐	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Concrete	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5352	Inlet	AJ	street	Brick

Inspection Date	Inspection Time	Weather
5/14/2010	2:00	Sunny

Development	Address Prefix	Street	address_suffix
	205	Glandale Ave	across from

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	stone/asphalt	3	

Grate Type	Grate Condition	Grate Defect Description
Parallel Bar	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Brick	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5353	Inlet	B	street	Concrete

Inspection Date	Inspection Time	Weather
5/14/2010	3:00	Sunny

Development	Address Prefix	Street	address_suffix

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
	0	

Inlet	Inlet Condition	Inlet Defect Description
☐	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Concrete	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5389	Inlet	AJ	street	

Inspection Date	Inspection Time	Weather
5/19/2010	1:00	

Development	Address Prefix	Street	address_suffix
		S. Liberty Street	Front of Millstream Park on

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	asphalt	3	frame sinking around asphalt

Grate Type	Grate Condition	Grate Defect Description
Reticuline	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	5	curb displaced from structure

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Brick	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5395	Inlet	cog/retic	street	Concrete

Inspection Date	Inspection Time	Weather
5/19/2010	1:00	Sunny

Development	Address Prefix	Street	address_suffix
	415	S. Commerce St	100' south, front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	asphalt/concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Reticuline	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Concrete	0	1	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☑	Aluminum	3	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Concrete	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5399	Inlet	cog	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/19/2010	1:00	Overcast

Development	Address Prefix	Street	address_suffix
		Ridgeview Ave	

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☐			0	

Grate Type	Grate Condition	Grate Defect Description
	0	

Inlet	Inlet Condition	Inlet Defect Description
☐	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☐		0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5411	Inlet	Reticuline	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/19/2010	11:00	Overcast

Development	Address Prefix	Street	address_suffix
		Frederick Drive	at circle

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	asphalt	0	

Grate Type	Grate Condition	Grate Defect Description
Reticuline	0	

Inlet	Inlet Condition	Inlet Defect Description
☐	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	1	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5412	Inlet	COG	street	

Inspection Date	Inspection Time	Weather
5/19/2010	11:00	Overcast

Development	Address Prefix	Street	address_suffix
	113	Fredrick Drive	front of at circle

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	4	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5424	Inlet	cog	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/19/2010	12:00	Overcast

Development	Address Prefix	Street	address_suffix
	125	Comet Drive	front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	2	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5425	Inlet	cog	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/19/2010	11:00	Overcast

Development	Address Prefix	Street	address_suffix
	125	Comet Drive	across from

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	2	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5432	Inlet	cog	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/19/2010	12:00	Overcast

Development	Address Prefix	Street	address_suffix
	152	Comet Dr	front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	2	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5433	Inlet	cog	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/19/2010	12:00	Overcast

Development	Address Prefix	Street	address_suffix
		Comet Drive	end of circle across from 255

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Concrete	0	1	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☐		0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5455	Inlet	cog	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/19/2010	11:00	Overcast

Development	Address Prefix	Street	address_suffix
		Taylor Mill Road	100Yds W of Symphony Blvd

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5495	Inlet		street	Pre Cast

Inspection Date	Inspection Time	Weather
5/19/2010	10:00	Overcast

Development	Address Prefix	Street	address_suffix
	631	Harmony Way	front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	3	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5537	Inlet	COG	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/19/2010	10:00	Overcast

Development	Address Prefix	Street	address_suffix
	122	Encore Ct	front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	1	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5574	Inlet	COG	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/19/2010	10:00	Overcast

Development	Address Prefix	Street	address_suffix
	227	Orchestra Pace	Front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑		0	2	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5594	Inlet	COG	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/19/2010	9:00	Overcast

Development	Address Prefix	Street	address_suffix
	223	Concerto Way	Front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	1	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5598	Inlet	cog	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/19/2010	10:00	Overcast

Development	Address Prefix	Street	address_suffix
	133	Sonata Way	front of

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☐		0	0	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

INLET INSPECTION REPORT

Condition Key: 0 = Good 3 = Fair 5 = Poor

Structure Part Number	Structure Type	Structure Description	Location	Material
5626	Inlet	cog	street	Pre Cast

Inspection Date	Inspection Time	Weather
5/19/2010	10:00	Overcast

Development	Address Prefix	Street	address_suffix
		Taylor Hill Road	300 yds from Symphony Blvd

Frame	Frame_mat	Frame_surf	Frame Condition	Frame Defect Description
☑	Cast Iron	concrete	0	

Grate Type	Grate Condition	Grate Defect Description
Solid	0	

Inlet	Inlet Condition	Inlet Defect Description
☑	0	

Riser Ring	Riser Ring Material	Riser Ring Condition	Riser Ring Number	Riser Ring Defect Description
☑	Brick	0	2	

Step	Step Material	Step Numner	Step Condition	Step Defect Description
☐		0	0	

Wall	Wall Material	Wall Condition	Wall Defect Descrition
☑	Pre Cast	0	

POND REPORT

Facility No 100 **County** Queen Anne's **District**

Inspection Date 06-May-10 **Inspection Time** 12:10:00 PM **Overall Condition**

Pond Type Wet Pond **Embankment Pond** ☐ **As-Builts Available** ☐

BMP Location At the centerlink & Coursevall Dr, Front of MD 213

Setting

Erosion Issues

Component	Condition	MWO
Emergency Spillway	Good	☐
Inlet Structure or Channels	Good	☐
Outlet Channel	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Inlet Structures or Channels	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Component	Condition	MWO
Inlet Channel	Good	☐
Outlet Channel	Good	☐

Riser and Trash Rack Issues

Principal Spillway Barrel Issues

Inadequate Vegetative Cover Issues

Debris Issues

Trash Issues

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	
Other	Within Pond	☐	Cattails
Phragmites	Surrounding Pond	☐	
Phragmites	Within Pond	☐	

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☐

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 101 **County** **District**

Inspection Date 14-May-10 **Inspection Time** 1:03:00 PM **Overall Condition**

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☐

BMP Location MD Rte 213 at Food Lion

Setting

Erosion Issues

Component	Condition	MWO
Inlet Structure or Channels	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Inlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Component	Condition	MWO
Inlet Channel	Good	☐
Outlet Channel	Good	☐

Riser and Trash Rack Issues

Principal Spillway Barrel Issues

Inadequate Vegetative Cover Issues

Debris Issues

Trash Issues

Unwanted_Vegetation Issues

Bike Trails and Animal Burrows

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 102 **County** Queen Anne's **District**

Inspection Date 06-May-10 **Inspection Time** 11:10:00 AM **Overall Condition**

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☐

BMP Location Rear of Food Lion on Rt 213, Off Coursevall Drive, 300-400 yds

Setting

Erosion Issues

Component	Condition	MWO
Inlet Structure or Channels	Good	☐
Outlet Channel	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Inlet Structures or Channels	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Component	Condition	MWO
Inlet Channel	Fair	☐
Outlet Channel	Fair	☐

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Concrete	Exposed Reinforce	☐
Concrete	Spalling	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Concrete	Exposed Reinf	☐	☐
Concrete	Spalling	☐	☐

Inadequate Vegetative Cover Issues

Debris Issues

Trash Issues

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	
Phragmites	Surrounding Pond	☐	

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☐

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 13 **County** Queen Anne's **District**

Inspection Date 11-May-10 **Inspection Time** 11:45:00 AM **Overall Condition** Good

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☐

BMP Location Off Route 305 in Center Village, Side of 129 Kings Court

Setting

Erosion Issues

Component	Condition	MWO
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Pond Bottom	Fair	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Metal	None	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Metal	None	☐	☐

Inadequate Vegetative Cover Issues

Debris Issues

Debris Present	Comment
☑	Moderate to Heavy

Trash Issues

Trash Present	Comment
☑	minor
☐	Minor

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	
Canada Thistle	Within Pond	☐	
Other	Within Pond	☐	Cattails
Phragmites	Surrounding Pond	☐	
Trees	Surrounding Pond	☐	
Trees	Within Pond	☐	

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☐

Embankment Pond Issues

Other Issues

Problem	MWO
Large amount of Vegetation, Brush and Trees around pond.	☐

POND REPORT

Facility No 14 **County** Queen Anne's **District**

Inspection Date 11-May-10 **Inspection Time** 12:35:00 PM **Overall Condition**

Pond Type Wet Pond **Embankment Pond** ☐ **As-Builts Available** ☐

BMP Location Off Route 305 in Centreville Village, ear of 138 and 134 Kings Court

Setting Could not Find or Locate, appears to be a Marsh

Erosion Issues

Sedimentation Issues

RipRap Issues

Riser and Trash Rack Issues

Principal Spillway Barrel Issues

Inadequate Vegetative Cover Issues

Debris Issues

Trash Issues

Unwanted_Vegetation Issues

Bike Trails and Animal Burrows

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 157 **County** Queen Anne's **District**

Inspection Date 11-May-10 **Inspection Time** 11:00:00 AM **Overall Condition** Good

Pond Type Wet Pond **Embankment Pond** ☐ **As-Builts Available** ☐

BMP Location Off Route 305 in Heritage Subdivsion, Side od 225 Autumn Court

Setting

Erosion Issues

Component	Condition	MWO
Inlet Structure or Channels	Good	☐
Outlet Channel	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Inlet Structures or Channels	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Concrete	None	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Concrete	None	☐	☐

Inadequate Vegetative Cover Issues

Debris Issues

Trash Issues

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	
Other	Within Pond	☐	Cattails
Phragmites	Surrounding Pond	☐	
Phragmites	Within Pond	☐	

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☐

Embankment Pond Issues

Other Issues

Problem	MWO
Minor erosion on South West area of Pond.	☐

POND REPORT

Facility No 158 **County** Queen Anne's **District**

Inspection Date 11-May-10 **Inspection Time** 10:15:00 AM **Overall Condition** Good

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☐

BMP Location Off Route 305 in Heritage Subdivision, Back of Heritage Court, Side of 236 Heritage C

Setting

Erosion Issues

Component	Condition	MWO
Inlet Structure or Channels	Good	☐
Outlet Channel	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Inlet Structures or Channels	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Concrete	None	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Concrete	None	☐	☐

Inadequate Vegetative Cover Issues

Debris Issues

Trash Issues

Trash Present	Comment
☐	very minor

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	
Phragmites	Surrounding Pond	☐	
Phragmites	Within Pond	☐	

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☐

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 187 **County** Queen Anne's **District**

Inspection Date 12-May-10 **Inspection Time** 12:11:00 PM **Overall Condition** Good

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☐

BMP Location Side of Acme in Centreville Plaza, off Little Hut Lane

Setting

Erosion Issues

Component	Condition	MWO
Emergency Spillway	Good	☐
Inlet Structure or Channels	Good	☐
Outlet Channel	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Forebay	Good	☐
Inlet Structures or Channels	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Concrete	None	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Concrete	None	☐	☐

Inadequate Vegetative Cover Issues

Debris Issues

Debris Present	Comment
☑	Minor

Trash Issues

Trash Present	Comment
☑	Very Minor

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	
Other	Within Pond	☐	Cattails, Large amount within pond
Phragmites	Surrounding Pond	☐	Large amount Surrounding pond
Phragmites	Within Pond	☐	Large smount within pond

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☐

Embankment Pond Issues

Other Issues

Problem	MWO
6' Fence surrounding Pond, Could not access, Inspected outside of Fence.	☐

POND REPORT

Facility No 2 **County** Queen Anne's **District**

Inspection Date 12-May-10 **Inspection Time** 1:47:00 PM **Overall Condition** Good

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☐

BMP Location Rear of Ashley Mini Storage off Railroad Ave, Side of Center Park Apts., on Little Hut

Setting

Erosion Issues

Component	Condition	MWO
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Pond Bottom	Fair	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Riser and Trash Rack Issues

Principal Spillway Barrel Issues

Inadequate Vegetative Cover Issues

Debris Issues

Debris Present	Comment
☑	Minor

Trash Issues

Trash Present	Comment
☑	garbage present
☐	Minor

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	Minor to Moderate amount
Canada Thistle	Within Pond	☐	Moderate amount
Phragmites	Surrounding Pond	☐	Minor to Moderate amount
Phragmites	Within Pond	☐	Moderate amount
Trees	Surrounding Pond	☐	Minor to Moderate amount
Trees	Within Pond	☐	Moderate amount

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☐

Embankment Pond Issues

Other Issues

Problem	MWO
6' Fence and Barbed Wire at Fence, could not access into pond area.	☐

POND REPORT

Facility No 201 **County** Queen Anne's **District**

Inspection Date 31-Mar-10 **Inspection Time** 2:20:00 PM **Overall Condition**

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☐

BMP Location Northbrook Subdivision Lurgan Stand Edenderry Ave

Setting

Erosion Issues

Component	Condition	MWO
Emergency Spillway	Good	☐
Inlet Structure or Channels	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Inlet Structures or Channels	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Component	Condition	MWO
Inlet Channel	Good	☐
Outlet Channel	Good	☐

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Concrete	Exposed Reinforce	☐
Concrete	Spalling	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Concrete	Exposed Reinf	☐	☐
Concrete	Spalling	☐	☐

Inadequate Vegetative Cover Issues

Debris Issues

Debris Present	Comment
☑	Very minor

Trash Issues

Trash Present	Comment
☑	Very minor

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	
Phragmites	Surrounding Pond	☐	
Phragmites	Within Pond	☐	

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☐

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 202 **County** **District**

Inspection Date 31-Mar-10 **Inspection Time** 1:01:00 PM **Overall Condition**

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☐

BMP Location Northbrook Subdivision, Lurgen and Granard Avenue

Setting

Erosion Issues

Component	Condition	MWO
Emergency Spillway	Good	☐
Inlet Structure or Channels	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Inlet Structures or Channels	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Component	Condition	MWO
Inlet Channel	Good	☐
Outlet Channel	Good	☐

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Concrete	Exposed Reinforce	☐
Concrete	Spalling	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Concrete	Exposed Reinf	☐	☐
Concrete	Spalling	☐	☐

Inadequate Vegetative Cover Issues

Debris Issues

Trash Issues

Trash Present	Comment
☑	Minor

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	
Other	Within Pond	☐	Cattail
Phragmites	Surrounding Pond	☐	
Phragmites	Within Pond	☐	
Trees	Surrounding Pond	☐	
Trees	Within Pond	☐	

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☐

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 241 **County** **District**

Inspection Date 06-May-10 **Inspection Time** 9:35:00 AM **Overall Condition**

Pond Type Dry Pond **Embankment Pond** ☐ **As-Builts Available** ☑

BMP Location Inter of Rt 213 and Rt 18

Setting

Erosion Issues

Component	Condition	MWO
Outlet Channel	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Riser and Trash Rack Issues

Principal Spillway Barrel Issues

Inadequate Vegetative Cover Issues

Debris Issues

Trash Issues

Trash Present	Comment
☑	

Unwanted_Vegetation Issues

Bike Trails and Animal Burrows

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 308 **County** Queen Anne's **District**

Inspection Date 06-May-10 **Inspection Time** 1:15:00 PM **Overall Condition**

Pond Type Wet Pond **Embankment Pond** ☐ **As-Builts Available** ☐

BMP Location At End of Circle on Comet Drive, Rear of Building 152

Setting

Erosion Issues

Component	Condition	MWO
Emergency Spillway	Good	☐
Inlet Structure or Channels	Good	☐
Outlet Channel	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Forebay	Good	☐
Inlet Structures or Channels	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Component	Condition	MWO
Inlet Channel	Good	☐
Outlet Channel	Good	☐

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Concrete	Exposed Reinforce	☐
Concrete	Spalling	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Concrete	Exposed Reinf	☐	☐
Concrete	Spalling	☐	☐

Inadequate Vegetative Cover Issues

Inadequate Cover	Location
☐	

Debris Issues

Trash Issues

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	
Phragmites	Surrounding Pond	☐	Very Minor
Phragmites	Within Pond	☐	
Trees	Within Pond	☐	Minor

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☐

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 321 **County** Queen Anne's **District**

Inspection Date 14-May-10 **Inspection Time** 9:50:00 AM **Overall Condition**

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☑

BMP Location Symphony Village, Near Sonata Way & Symphony Way

Setting

Erosion Issues

Component	Condition	MWO
Emergency Spillway	Good	☐
Inlet Structure or Channels	Good	☐
Outlet Channel	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Forebay	Good	☐
Inlet Structures or Channels	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Component	Condition	MWO
Inlet Channel	Good	☐
Outlet Channel	Good	☐

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Concrete	Exposed Reinforce	☐
Concrete	Spalling	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Concrete	Exposed Reinf	☐	☐
Concrete	Spalling	☐	☐

Inadequate Vegetative Cover Issues

Debris Issues

Trash Issues

Trash Present	Comment
☑	

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Phragmites	Surrounding Pond	☐	Large amount of vegetation at discharge pipe (c

Bike Trails and Animal Burrows

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 322 **County** **District**

Inspection Date 04-May-10 **Inspection Time** 10:45:00 AM **Overall Condition**

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☐

BMP Location Symphony Village, Near Overture Way & Encore Ct

Setting

Erosion Issues

Component	Condition	MWO
Emergency Spillway	Good	☐
Inlet Structure or Channels	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Forebay	Good	☐
Inlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Component	Condition	MWO
Inlet Channel	Good	☐
Outlet Channel	Good	☐

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Concrete	Exposed Reinforce	☐
Concrete	Spalling	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Concrete	Exposed Reinf	☐	☐
Concrete	Spalling	☐	☐

Inadequate Vegetative Cover Issues

Debris Issues

Trash Issues

Unwanted_Vegetation Issues

Bike Trails and Animal Burrows

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 334 **County** **District**

Inspection Date 31-Mar-10 **Inspection Time** 10:45:00 AM **Overall Condition**

Pond Type Wet Pond **Embankment Pond** ☐ **As-Builts Available** ☐

BMP Location Northbrook Subdivision (Northbrook Drive & Long Creek Way)

Setting

Erosion Issues

Component	Condition	MWO
Emergency Spillway	Good	☐
Inlet Structure or Channels	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Forebay	Good	☐
Inlet Structures or Channels	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Component	Condition	MWO
Inlet Channel	Good	☐
Outlet Channel	Good	☐

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Concrete	Exposed Reinforce	☐
Concrete	Spalling	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Concrete	Exposed Reinf	☐	☐
Concrete	Spalling	☐	☐

Inadequate Vegetative Cover Issues

Debris Issues

Trash Issues

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Phragmites	Surrounding Pond	☐	

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☐

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 335 **County** **District**

Inspection Date 31-Mar-10 **Inspection Time** 11:30:00 AM **Overall Condition**

Pond Type Wet Pond **Embankment Pond** ☐ **As-Builts Available** ☐

BMP Location Northbrook Subdivision (South end of Northbrook Drive between Circles)

Setting

Erosion Issues

Component	Condition	MWO
Emergency Spillway	Good	☐
Inlet Structure or Channels	Poor	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Forebay	Good	☐
Inlet Structures or Channels	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Component	Condition	MWO
Inlet Channel	Good	☐
Outlet Channel	Good	☐

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Concrete	Exposed Reinforce	☐
Concrete	Spalling	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Concrete	Exposed Reinf	☐	☐
Concrete	Spalling	☐	☐

Inadequate Vegetative Cover Issues

Debris Issues

Debris Present	Comment
☑	Very Minor

Trash Issues

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	
Phragmites	Surrounding Pond	☐	

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☐

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 337 **County** Queen Anne's **District**

Inspection Date 04-May-10 **Inspection Time** 11:35:00 AM **Overall Condition**

Pond Type Wet Pond **Embankment Pond** ☐ **As-Builts Available** ☐

BMP Location Symphony Village, Near Taylor Mill Rd. & Bravo Rd, off Harmony Way

Setting

Erosion Issues

Component	Condition	MWO
Access Road	Good	☐
Emergency Spillway	Good	☐
Inlet Structure or Channels	Good	☐
Outlet Channel	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Forebay	Good	☐
Inlet Structures or Channels	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Concrete	Exposed Reinforce	☐
Concrete	Spalling	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Concrete	Exposed Reinf	☐	☐
Concrete	Spalling	☐	☐

Inadequate Vegetative Cover Issues

Debris Issues

Trash Issues

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	
Phragmites	Surrounding Pond	☐	Canada Thistle on surrounding west side near In
Phragmites	Within Pond	☐	Phragmites surround both bottom of pond and s

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☐

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 369 **County** Queen Anne's **District**

Inspection Date 12-May-10 **Inspection Time** 10:30:00 AM **Overall Condition** Good

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☐

BMP Location Centreville United Methodist Church, 608 Church Hill Road

Setting

Erosion Issues

Component	Condition	MWO
Emergency Spillway	Good	☐
Outlet Channel	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Forebay	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Concrete	None	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Concrete	None	☐	☐

Inadequate Vegetative Cover Issues

Debris Issues

Trash Issues

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	
Other	Surrounding Pond	☐	Cattails
Other	Within Pond	☐	Cattails
Phragmites	Surrounding Pond	☐	
Phragmites	Within Pond	☐	

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☐

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 387 **County** Queen Anne's **District**

Inspection Date 13-May-10 **Inspection Time** 11:10:00 AM **Overall Condition** Good

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☐

BMP Location Side of Crossroad Community Center, Off Banjo Lane

Setting

Erosion Issues

Component	Condition	MWO
Inlet Structure or Channels	Good	☐
Outlet Channel	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Inlet Structures or Channels	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Plastic	None	☐

Principal Spillway Barrel Issues

Inadequate Vegetative Cover Issues

Debris Issues

Debris Present	Comment
☐	

Trash Issues

Unwanted_Vegetation Issues

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☑

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 388 **County** **District**

Inspection Date 04-May-10 **Inspection Time** 2:00:00 PM **Overall Condition**

Pond Type Dry Pond **Embankment Pond** ☑ **As-Builts Available** ☐

BMP Location Centreville Diagnostic Center, 2540 on Rt 213

Setting

Erosion Issues

Component	Condition	MWO
Emergency Spillway	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Riser and Trash Rack Issues

Principal Spillway Barrel Issues

Inadequate Vegetative Cover Issues

Debris Issues

Trash Issues

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	
Phragmites	Surrounding Pond	☐	
Phragmites	Within Pond	☐	

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☐

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 389 **County** Queen Anne's **District**

Inspection Date 06-May-10 **Inspection Time** 2:10:00 PM **Overall Condition**

Pond Type Wet Pond **Embankment Pond** ☐ **As-Builts Available** ☐

BMP Location Side of 408 S. Liberty St, and side of Millstream Park

Setting

Erosion Issues

Component	Condition	MWO
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Pond Bottom	Fair	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Component	Condition	MWO
Inlet Channel	Good	☐
Outlet Channel	Good	☐

Riser and Trash Rack Issues

Principal Spillway Barrel Issues

Inadequate Vegetative Cover Issues

Debris Issues

Debris Present	Comment
☑	Minor debris in pond

Trash Issues

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	(Minor)
Trees	Surrounding Pond	☐	Surrounding Pond has Large Amounts of Trees,
Trees	Within Pond	☐	

Bike Trails and Animal Burrows

Embankment Pond Issues

Other Issues

Problem	MWO
Good - based on exterior observation, interior of pond unaccessible due to trees, vegetation and fence.	☐

POND REPORT

Facility No 405 **County** **District**

Inspection Date 04-May-10 **Inspection Time** 2:45:00 PM **Overall Condition**

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☐

BMP Location Rear of G&G Distributors (213) Pond Off Rt. 18

Setting

Erosion Issues

Component	Condition	MWO
Emergency Spillway	Good	☐
Inlet Structure or Channels	Good	☐
Outlet Channel	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Forebay	Good	☐
Inlet Structures or Channels	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Component	Condition	MWO
Inlet Channel	Good	☐
Outlet Channel	Good	☐

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Concrete	Exposed Reinforce	☐
Concrete	Spalling	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Concrete	Exposed Reinf	☐	☐
Concrete	Spalling	☐	☐

Inadequate Vegetative Cover Issues

Debris Issues

Trash Issues

Unwanted_Vegetation Issues

Bike Trails and Animal Burrows

Embankment Pond Issues

Other Issues

Problem	MWO
Sinkhole & Erosion Around Riser	☐

POND REPORT

Facility No 42 **County** Queen Anne's **District**

Inspection Date 13-May-10 **Inspection Time** 1:35:00 PM **Overall Condition** Good

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☐

BMP Location Side of Kennard School, Providence Farm on Little Kidwell Ave

Setting

Erosion Issues

Component	Condition	MWO
Inlet Structure or Channels	Good	☐
Outlet Channel	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Inlet Structures or Channels	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Concrete	None	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Concrete	None	☐	☐

Inadequate Vegetative Cover Issues

Debris Issues

Debris Present	Comment
☑	Minor

Trash Issues

Trash Present	Comment
☑	Minor - From School and Develo

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	
Other	Within Pond	☐	Cattails
Phragmites	Surrounding Pond	☐	
Phragmites	Within Pond	☐	Large amount within pond bottom

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☑

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 422 **County** Queen Anne's **District**

Inspection Date 31-Mar-10 **Inspection Time** 8:50:00 AM **Overall Condition**

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☑

BMP Location Northbrook Subdivision (MD 213/Wexford Drive)

Setting

Erosion Issues

Component	Condition	MWO
Emergency Spillway	Good	☐
Inlet Structure or Channels	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Forebay	Good	☐
Inlet Structures or Channels	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Component	Condition	MWO
Inlet Channel	Good	☐
Other	Good	☐
Outlet Channel	Good	☐

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Concrete	Exposed Reinforce	☐
Concrete	Spalling	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Concrete	Exposed Reinf	☐	☐
Concrete	Spalling	☐	☐

Inadequate Vegetative Cover Issues

Inadequate Cover	Location
☐	

Debris Issues

Debris Present	Comment
☑	minor from development
☐	

Trash Issues

Trash Present	Comment
☑	Minor from development

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	
Phragmites	Surrounding Pond	☐	

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☐

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 423 **County** **District**

Inspection Date 31-Mar-10 **Inspection Time** 2:55:00 PM **Overall Condition**

Pond Type Wet Pond **Embankment Pond** ☐ **As-Builts Available** ☐

BMP Location Northbrook Subdivision (Wexford Drive & Trickling Brook)

Setting

Erosion Issues

Component	Condition	MWO
Emergency Spillway	Good	☐
Inlet Structure or Channels	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Forebay	Good	☐
Inlet Structures or Channels	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Component	Condition	MWO
Inlet Channel	Good	☐
Outlet Channel	Good	☐

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Concrete	Exposed Reinforce	☐
Concrete	Spalling	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Concrete	Exposed Reinf	☐	☐
Concrete	Spalling	☐	☐

Inadequate Vegetative Cover Issues

Debris Issues

Trash Issues

Unwanted_Vegetation Issues

Bike Trails and Animal Burrows

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 424 **County** **District**

Inspection Date 31-Mar-10 **Inspection Time** 9:53:00 AM **Overall Condition**

Pond Type Wet Pond **Embankment Pond** ☐ **As-Builts Available** ☐

BMP Location Northbrook Subdivision (MD213) Brookfiel Dr & Northbrook Dr

Setting

Erosion Issues

Component	Condition	MWO
Emergency Spillway	Good	☐
Inlet Structure or Channels	Good	☐
Outlet Channel	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Forebay	Good	☐
Inlet Structures or Channels	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Component	Condition	MWO
Inlet Channel	Good	☐
Outlet Channel	Good	☐

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Concrete	Exposed Reinforce	☐
Concrete	Spalling	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Concrete	Exposed Reinf	☐	☐
Concrete	Spalling	☐	☐

Inadequate Vegetative Cover Issues

Debris Issues

Debris Present	Comment
☑	Minor

Trash Issues

Trash Present	Comment
☑	Minor

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	
Phragmites	Surrounding Pond	☐	

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☐

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 449 **County** Queen Anne's **District**

Inspection Date 13-May-10 **Inspection Time** 2:40:00 PM **Overall Condition** Good

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☐

BMP Location Rear of 2601 (Rt 213) Centreville Rd (cvach Financial)

Setting

Erosion Issues

Component	Condition	MWO
Emergency Spillway	Good	☐
Inlet Structure or Channels	Good	☐
Outlet Channel	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Forebay	Good	☐
Inlet Structures or Channels	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Concrete	None	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Concrete	None	☐	☐

Inadequate Vegetative Cover Issues

Debris Issues

Debris Present	Comment
☑	Minor

Trash Issues

Trash Present	Comment
☑	minor amounts
☐	Minor

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	
Phragmites	Surrounding Pond	☐	
Phragmites	Within Pond	☐	

Bike Trails and Animal Burrows

Embankment Pond Issues

Problem	Condition	MWO
Local Depression or Bulges	Good	☐

Other Issues

Problem	MWO
Some Minor Erosion on North and South Side of Pond	☐

POND REPORT

Facility No 51 **County** Queen Anne's **District**

Inspection Date 10-May-10 **Inspection Time** 1:10:00 PM **Overall Condition** Good

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☐

BMP Location Intersection of Johnstown Ln and Powell, Rear of Queen Annes County Senior Center

Setting

Erosion Issues

Component	Condition	MWO
Inlet Structure or Channels	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Inlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Riser and Trash Rack Issues

Principal Spillway Barrel Issues

Inadequate Vegetative Cover Issues

Debris Issues

Trash Issues

Unwanted_Vegetation Issues

Bike Trails and Animal Burrows

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 52 **County** Queen Anne's **District**

Inspection Date 12-May-10 **Inspection Time** 2:47:00 PM **Overall Condition** Good

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☐

BMP Location Rear of Queen Annes County detention Center on Little Hut Lane

Setting

Erosion Issues

Component	Condition	MWO
Emergency Spillway	Good	☐
Inlet Structure or Channels	Good	☐
Outlet Channel	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Inlet Structures or Channels	Good	☐
Outlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Riser and Trash Rack Issues

Principal Spillway Barrel Issues

Inadequate Vegetative Cover Issues

Debris Issues

Debris Present	Comment
☐	Minor

Trash Issues

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	
Other	Within Pond	☐	Cattails
Phragmites	Surrounding Pond	☐	
Phragmites	Within Pond	☐	Large amount in Pond

Bike Trails and Animal Burrows

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 81 **County** **District**

Inspection Date 06-May-10 **Inspection Time** 10:18:00 AM **Overall Condition**

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☐

BMP Location At Weatherbee Subdivision on Frederick Drive, Rear side of G&G Distributors

Setting

Erosion Issues

Component	Condition	MWO
Emergency Spillway	Fair	☐
Inlet Structure or Channels	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Inlet Structures or Channels	Good	☐
Pond Bottom	Fair	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Riser and Trash Rack Issues

Principal Spillway Barrel Issues

Inadequate Vegetative Cover Issues

Debris Issues

Debris Present	Comment
☑	Some Minor - Moderate

Trash Issues

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	
Phragmites	Surrounding Pond	☑	
Trees	Surrounding Pond	☑	Surrounding Pond has large amounts of trees an

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☐

Embankment Pond Issues

Other Issues

Problem	MWO
Fair - based on exterior observations of pond, some parts of pond unaccessible to get to	☐

POND REPORT

Facility No 83 **County** Queen Anne's **District**

Inspection Date 12-May-10 **Inspection Time** 11:35:00 PM **Overall Condition** Good

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☐

BMP Location Side of Acme in Centreville Plaza, off Little Hut Lane

Setting

Erosion Issues

Component	Condition	MWO
Inlet Structure or Channels	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Inlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Riser and Trash Rack Issues

Principal Spillway Barrel Issues

Inadequate Vegetative Cover Issues

Debris Issues

Trash Issues

Unwanted_Vegetation Issues

Bike Trails and Animal Burrows

Embankment Pond Issues

Other Issues

POND REPORT

Facility No 99 **County** Queen Anne's **District**

Inspection Date 11-May-10 **Inspection Time** 2:50:00 PM **Overall Condition** Good

Pond Type Wet Pond **Embankment Pond** ☑ **As-Builts Available** ☐

BMP Location 160 Cypress Court, Rear of, in Circle

Setting

Erosion Issues

Component	Condition	MWO
Emergency Spillway	Good	☐
Inlet Structure or Channels	Good	☐
Outlet Channel	Good	☐
Side Slope and Buffer	Good	☐
Top of Slope	Good	☐

Sedimentation Issues

Component	Condition	MWO
Inlet Structures or Channels	Good	☐
Pond Bottom	Good	☐
Side Slope and Buffers	Good	☐

RipRap Issues

Riser and Trash Rack Issues

Material	Problem	Debris on trash rack
Concrete	None	☐

Principal Spillway Barrel Issues

Material	Problem	Joint Problem	MWO
Concrete	None	☐	☐

Inadequate Vegetative Cover Issues

Debris Issues

Debris Present	Comment
☑	Minor amount in Pond

Trash Issues

Trash Present	Comment
☑	Very minor amount from Develo

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Canada Thistle	Surrounding Pond	☐	Large amount of Vegetation, Brush and Trees ar
Phragmites	Surrounding Pond	☐	
Phragmites	Within Pond	☐	
Trees	Surrounding Pond	☐	
Trees	Within Pond	☐	

Bike Trails and Animal Burrows

Problem	MWO
Animal Burrows	☐

Embankment Pond Issues

Other Issues

INFILTRATION FACIILTY REPORT

Facility No 12 **County** Queen Anne's

Inspection Date 12-May-10 **Inspection Time** 1:15:00 PM **Overall Condition** Good

BMP Type Infiltration Basin / Trench **Embankment Pond** ☐ **As-Builts Available** ☐

BMP Location Center Park Apt., Behind Railroad Ave, off Little Hut Lane

Setting

Erosion Issues

Component	Condition	MWO
Trench Basin Area	Good	☐
Upland drainage basin	Good	☐

Sedimentation Issues

Component	Condition	MWO
Trench/Basin Area	Good	☐

Debris Issues

Trash Issues

Unwanted_Vegetation Issues

Seeding Required

Mowing Issues

Pretreatment Area

Aggregate

Surface of Aggregate Clean	Stone replacement needed	MWO
☑	☐	☐

BMP Outlet

Ponding

INFILTRATION FACIILTY REPORT

Facility No 124 **County** Queen Anne's

Inspection Date 10-May-10 **Inspection Time** 2:05:00 PM **Overall Condition** Good

BMP Type Infiltration Basin / Trench **Embankment Pond** ☐ **As-Builts Available** ☐

BMP Location End of Armstrong Drive, Front of Corsica Hills Long Term Care and Rehab

Setting

Erosion Issues

Component	Condition	MWO
Trench Basin Area	Good	☐
Upland drainage basin	Good	☐

Sedimentation Issues

Component	Condition	MWO
Trench/Basin Area	Good	☐

Debris Issues

Trash Issues

Unwanted_Vegetation Issues

Seeding Required

Mowing Issues

Pretreatment Area

Aggregate

BMP Outlet

Outlet Material	Condition
RipRap	

Ponding

INFILTRATION FACIILTY REPORT

Facility No **183** **County** Queen Anne's

Inspection Date 11-May-10 **Inspection Time** 1:15:00 PM **Overall Condition** Good

BMP Type Infiltration Basin / Trench **Embankment Pond** ☐ **As-Builts Available** ☐

BMP Location 335 N. Liberty St (Rt 213) Across from Centreville Police Dept.

Setting

Erosion Issues

Component	Condition	MWO
BMP Outlet	Good	☐
Trench Basin Area	Good	☐
Upland drainage basin	Good	☐

Sedimentation Issues

Component	Condition	MWO
Forebay/Pretreatment Inlet Ar	Good	☐
Forebay/Pretreatment Inlet Pi	Good	☐
Trench/Basin Area	Good	☐

Debris Issues

Trash Issues

Unwanted_Vegetation Issues

Type	Location	MWO	Comment
Phragmites	Surrounding Pond	☐	

Seeding Required

Mowing Issues

Pretreatment Area

Aggregate

BMP Outlet

Outlet Material	Condition
Riprap	

Ponding

INFILTRATION FACIILTY REPORT

Facility No 25 **County** Queen Anne's

Inspection Date 10-May-10 **Inspection Time** 2:40:00 PM **Overall Condition** Good

BMP Type Infiltration Basin / Trench **Embankment Pond** ☐ **As-Builts Available** ☐

BMP Location Armstrong Ave., Rear of Corsica Hill Long Term Care and Rehab

Setting

Erosion Issues

Component	Condition	MWO
BMP Outlet	Good	☐
Trench Basin Area	Good	☐
Upland drainage basin	Good	☐

Sedimentation Issues

Component	Condition	MWO
Trench/Basin Area	Good	☐

Debris Issues

Trash Issues

Unwanted_Vegetation Issues

Seeding Required

Mowing Issues

Pretreatment Area

Aggregate

BMP Outlet

Outlet Material	Condition
RipRap	

Ponding

INFILTRATION FACIILTY REPORT

Facility No 257 **County** Queen Anne's

Inspection Date 11-May-10 **Inspection Time** 2:15:00 PM **Overall Condition** Good

BMP Type Infiltration Basin / Trench **Embankment Pond** ☐ **As-Builts Available** ☐

BMP Location Side of 202 Ridgeview Court, at Townhomes, Side of

Setting This appears to be a Storm Well per JK ON 5/11/10

Erosion Issues

Sedimentation Issues

Debris Issues

Trash Issues

Unwanted_Vegetation Issues

Seeding Required

Mowing Issues

Pretreatment Area

Aggregate

BMP Outlet

Ponding

INFILTRATION FACIILTY REPORT

Facility No 27 **County** Queen Anne's

Inspection Date 10-May-10 **Inspection Time** 11:20:00 AM **Overall Condition** Good

BMP Type Infiltration Basin / Trench **Embankment Pond** ☐ **As-Builts Available** ☐

BMP Location Rear of Delmarva Power and Light on Rt 213, 2600 Centreville Road

Setting

Erosion Issues

Component	Condition	MWO
Trench Basin Area	Good	☐
Upland drainage basin	Good	☐

Sedimentation Issues

Component	Condition	MWO
Trench/Basin Area	Good	☐

Debris Issues

Trash Issues

Trash Present	Comment
☐	very minor debris

Unwanted_Vegetation Issues

Seeding Required

Mowing Issues

Pretreatment Area

Aggregate

Surface of Aggregate Clean	Stone replacement needed	MWO
☐	☐	☐

BMP Outlet

Ponding

INFILTRATION FACIILTY REPORT

Facility No 3 **County** Queen Anne's

Inspection Date 13-May-10 **Inspection Time** 9:40:00 AM **Overall Condition**

BMP Type Infiltration Basin / Trench **Embankment Pond** ☐ **As-Builts Available** ☐

BMP Location 505 Railroad Ave, Side of Police / Sheriffs Dept

Setting

Erosion Issues

Component	Condition	MWO
BMP Outlet	Good	☐
Trench Basin Area	Good	☐
Upland drainage basin	Good	☐

Sedimentation Issues

Component	Condition	MWO
Trench/Basin Area	Good	☐

Debris Issues

Debris Present	Comment
☐	

Trash Issues

Trash Present	Comment
☐	

Unwanted_Vegetation Issues

Seeding Required

Mowing Issues

Pretreatment Area

Aggregate

BMP Outlet

Ponding

INFILTRATION FACIILTY REPORT

Facility No **Temp 500** **County** Queen Anne's

Inspection Date 13-May-10 **Inspection Time** 12:20:00 PM **Overall Condition** Good

BMP Type Rain Garden **Embankment Pond** ☐ **As-Builts Available** ☐

BMP Location Queen Annes County Free Library, on Rt 213 (S. Commerce St) Rear of

Setting

Erosion Issues

Component	Condition	MWO
BMP Outlet	Good	☐
Trench Basin Area	Good	☐
Upland drainage basin	Good	☐

Sedimentation Issues

Component	Condition	MWO
Trench/Basin Area	Good	☐

Debris Issues

Trash Issues

Trash Present	Comment
☑	Minor litter

Unwanted_Vegetation Issues

Seeding Required

Mowing Issues

Pretreatment Area

Aggregate

BMP Outlet

Outlet Material	Condition
RipRap	

Ponding

ATTACHMENT 2