



Fauquier County, Virginia

Municipal Separate Storm Sewer System (MS4) Fiscal Year 2016 Annual Report

September 30, 2016



Department of Community Development
10 Hotel Street
Warrenton, VA 20186
540-422-8210

**Submitted to the Virginia Department of Environmental Quality in
compliance with Permit No. VAR040123**

MS4 Fiscal Year 2016 Annual Report, Fauquier County

A. *Background Information*

1. *Permittee name and permit number:*

Fauquier County; Permit number VAR040123

2. *The annual report permit year and reporting period:*

The five-year MS4 permit was issued on July 1, 2013. The permit became effective upon Fauquier County's receipt on May 6, 2014. This permit will expire on June 30, 2018. This report is for the period July 1, 2015 – June 30, 2016.

3. *Modifications to any operator's department's roles and responsibilities:*

Fauquier County proposes no modifications.

4. *Number of new MS4 outfalls and associated acreage by HUC added during the permit year:*

None

5. *Signed Certification Statement:*

See final page.

Table 1: There are a total of 11 Fauquier County owned and managed sites within the designated MS4 area that contain stormwater conveyances, and are therefore subject to the requirements of the MS4 Permit. These sites are as follows:

Site	Managing Department	Acres in MS4 Watershed	Watershed	Total Acres within Watershed	# of Outfalls
Vint Hill-Village Green (part 1)	Fauquier County Parks and Recreation Department	3.66	PL32	3.66	0
Vint Hill-Village Green (part 2)	Fauquier County Parks and Recreation Department	17.60	PL33	44.24	0
Auburn Middle School	Fauquier County Schools (and Fauquier County General Services for the newly-acquired parcels, BMP, and outfall)	26.65			1
P.B. Smith Elementary School	Fauquier County Schools	7.41	PL35	15.06	0
C.M. Bradley Elementary School	Fauquier County Schools	7.66			0
Brumfield Elementary School	Fauquier County Schools	18.85	PL36	30.84	3
Taylor Middle School	Fauquier County General Services	7.35			4
Warrenton Community Center	Fauquier County Parks and Recreation Department	4.64			0
Fauquier High School	Fauquier County Schools	38.58	RA07	59.30	17
Maintenance Shop	Fauquier County General Services	1.99			3
Fauquier County and Public Health Department offices	Fauquier County General Services	8.97			3
Warrenton Middle School	Fauquier County Schools	9.76			0
Total		153.10		153.10	31

B. Minimum Control Measure Implementation

1. MCM1 – Public Education and Outreach

- a. *Items relating to Permit Section II.B.1.g(1): A list of the education and outreach activities conducted during the reporting year for each high-priority water quality issue, the estimated number of people reached, and an estimated percentage of the targeted audience or audiences that will be reached.*

Last year's report identified that Priority Topics 1, 3 and 4 were going to be removed from future reports, with a revised focus on employee training due to the properties involved in the County's permit. Priority Topic 2 was revised to reflect a more specific slant. A new Priority Topic 1 has been included with this report identifying that education of County staff is the primary goal for outreach. Beginning in July 2016, the primary focus of Fauquier County's MS4 public education (MCM1 and 2) will be towards employee training. This may lead to some duplication with reporting for MCM6. Beyond these educational and training events, the rest of this Minimum Control Measure will be met by the Town of Warrenton through our MS4 Cooperative Agreement.

- Priority Topic #1: Increase Awareness of County Employees of Groundwater Impacts
- Priority Topic #2: Homeowner Strategies for Urban Stormwater Management

- b. *Items relating to Permit Section II.B.1.g(2): A list of the education and outreach activities that will be conducted during the reporting year for each high-priority water quality issue, the estimated number of people reached, and an estimated percentage of the targeted audience or audiences that will be reached.*

- Fauquier County Schools endeavored to complete a comprehensive plan for school maintenance activities related to custodial operations and the disposal of waste water to be followed with training for their custodial staff. This has not yet been completed and the revised timeline is shown in the updated Fauquier County MS4 Plan.
- Fauquier County Parks and Recreation Department provided a general MS4 orientation training session to the department supervisors.
- Fauquier County Department of Community Development was to provide an MS4 orientation training for the County Schools, Parks and Recreation, and General Services Divisions. While training for the departments as a whole has not yet occurred, regular meetings with the respective department heads has resulted in increased awareness and understanding of the MS4 permit amongst those responsible for MS4 permit compliance.

Please also see additional discussion in the BMP Assessment section.

- c. *Status of compliance with permit conditions:*

- Public Education for HOAs [Due date: 3/15/16]

This product is a Homeowner's Guide to Stormwater Management that has been prepared by the Rappahannock-Rapidan Regional Commission (RRRC) and released in May of 2016. Fauquier County staff participated in the initial scoping and planning for this Homeowner's Guide. The County has been providing this to homeowners in and near the County's MS4 watersheds.

- Present water quality-oriented educational programs

This is ongoing through the John Marshall Soil and Water Conservation District's (JMSWCD) education program which primarily supports school programming.

- Support John Marshall Soil and Water Conservation by promoting their rain-barrel efforts. The focus on this is individual landowners.

The County has provided information through the County website and additional programs and opportunities will be promoted through the Department of Community Development's social media accounts moving forward.

- Provide homeowners with source material for additional stormwater retrofit options.

This action should take place after the release of the Homeowner's Guide, therefore, this task is being carried over to the 2016-2017 permit year with a due date of June 30, 2017.

- Support Environmental Services' free household chemical disposal collection events by providing advertisement and marketing of their events.

The County has provided information through the County website and additional programs and opportunities will be promoted through the Department of Community Development's social media accounts moving forward.

d. BMP assessment

This is repeated from last year for explanation purposes. This BMP has been problematic in its development and the selection of relevant Priority Topics that has the potential to substantially improve Fauquier County's MS4 Stormwater systems. With minor exceptions, all land that drains into Fauquier County's MS4 stormwater systems is County-owned and managed lands. Therefore, there is no direct public audience to target an MS4 educational system towards. The main audience is County managers and employees; therefore, this audience would be reached through training under the Pollution Prevention/Good Housekeeping Minimum Control Measure #6. During our original MS4 Permit application/registration statement, in order to have something under the "Priority Topics," under Minimum Control Measure #1, we submitted generic stormwater topics that were not unique to Fauquier County or that had any relevance to our specific MS4 stormwater permit or MS4 Program. This decoupling of stated "Priority Topics" from actual real on-the-ground improvements to our MS4 water quality status led to placing these actions on a lower-priority setting and less than full compliance. The best solution would be to replace our existing "High Priority Topics" with topics that have more relevance to the condition of our MS4 system.

Beginning in July 2015, the focus of Fauquier County's MS4 public education (MCM1 and 2) has been towards employee training. Beyond these educational and training events, the rest of this Minimum Control Measure will be met by the Town of Warrenton through our MS4 Cooperative Agreement.

- e. *Progress toward achieving measureable goal identified in the MS4 Program Plan*

See section "d" above.

2. MCM2 – Public Involvement/Participation

- a. *Items relating to Permit Section II.B.2.d(1): Within 30 days the County shall post the updated MS4 Program Plan and annual report to the County's website.*

The County's website experienced a significant redesign during the reporting period. A separate page for the MS4 section has been incorporated into this new design. The County has posted the required MS4 documents this page. The specific path is the following:

<http://www.fauquiercounty.gov/government/departments-a-g/community-development/planning/long-range-planning/ms4-permit-program>

- b. *Items relating to Permit Section II.B.2.d(2): Documentation of compliance with the public participation requirements of this section:*

- 1) *Maintain an updated MS4 Program Plan*

Fauquier County's MS4 Program Plan has been updated and it will be posted to the County's website within 30 days.

- 2) *Post copies of each annual report on the operator's web page within 30 days of submittal to the department and retain copies of annual reports online for the duration of the state permit.*

A copy of this annual report will be posted to the County's website within 30 days.

- c. *Status of compliance with permit conditions.*

Fauquier County is in compliance with permit conditions related to this minimum control measure.

- d. *BMP assessment*

See BMP Assessment section for Minimum Control Measure #1

- e. *Progress toward achieving measureable goal identified in the MS4 Program Plan*

- *County to participate in a stream-side planting project*

This event was held on April 22, 2016 (Earth Day) and 25 participants helped to plant a half acre property.

- *Fauquier County Extension Office to continue providing their urban nutrient management assistance programs*

This assistance is ongoing and was recently profiled in the local newspaper: http://www.fauquiernow.com/index.php/fauquier_news/entry/fauquier-green-grass-goes-online-improves-lawns-water-quality-2016

In addition to these County activities, there were other related water quality awareness activities and events that the County was involved in, through the John Marshall Soil and Water Conservation District and the Fauquier County Cooperative Extension Office. The County provides financial and administrative support to both of these organizations.

Below is a table containing educational and field activities with a water quality-related focus that were hosted by John Marshall Soil and Water Conservation District within the reporting period. Those highlighted were events located within Fauquier County but presented to non-County residents.

Program Date	Location	Name of Group/Class	Purpose of Program	Children in Attendance	Adults in Attendance	# Programs Presented
8/5/15	Fauquier Education Farm	4-H	Beavers/Macroinvertebrates	9	2	1
8/7/15	Chapman Farm	VT XMNR	Conservation Tour	0	33	1
8/31/15	Liberty High School	Ecology	Water Monitoring Lesson	21	1	1
9/3/15	Kettle Run High School	Ecology/AP Environmental Science	Stream Monitoring Training	45	3	3
9/4/15	Fauquier High School	Ecology	Stream Monitoring Training	32	2	2
9/8/15	Cedar Run	Ecology	Stream Monitoring	32	2	2
9/14/15	Fauquier High School	Ecology	Stream Monitoring Training	18	1	1
9/15/15	Brumfield Elementary School	5th Grade	Leaf Pack - Phase I	38	4	2
9/16/15	Brumfield Elementary School	5th Grade	Leaf Pack Project - Phase I	43	2	2
9/17/15	Vint Hill Park	Ecology/AP Environmental Science	Stream Monitoring	75	3	3
9/25/15	Kinloch Farm	6th Grade	Field Day	26	5	5
9/29/15	Bradley Elementary School	4th Grade	Enviroscape	64	4	4
10/7/15	Cedar Run/FHS	Ecology	Stream Monitoring	32	2	2
10/8/15	Vint Hill Park	Ecology/AP Environmental Science	Stream Monitoring	45	3	3
10/13/15	Messick Dairy Farm	Taylor Middle School 7th Grade	Conservation Farm Day	160	18	8
10/18/15	Sky Meadows State Park	General Public	Watersheds/Macroinvertebrates	46	59	1
10/20/15	Brumfield Elementary School	5th Grade	Leaf Pack - Phase II	38	4	2

10/21/15	Brumfield Elementary School	5th Grade	Leaf Pack - Phase II	43	2	2
10/21/15	P.B. Smith Elementary School	Ecology Club	Leaf Pack Project - Phase I	39	2	1
10/22/15	Fauquier High School	Ecology	Pond Monitoring	20	1	1
10/27/15	Liberty High School	Ecology	Leaf Pack - Phase I	23	1	1
11/10/15	Cedar Run	Ecology	Stream Monitoring	32	2	2
11/12/15	Vint Hill Park	Ecology/AP Environmental Science	Stream Monitoring	45	4	3
11/17/15	Midland Christian Academy	5th-7th Grade	Water Monitoring	7	2	1
11/18/15	P.B. Smith Elementary School	Ecology Club	Leaf Pack Project - Phase III	43	1	1
11/20/15	Cedar Lee Middle School	6th Grade	Enviroscape	36	3	2
11/20/15	Outdoor Lab	Coleman Elementary School 5th Grade	Macroinvertebrates	68	6	6
11/23/15	Cedar Lee Middle School	6th Grade	Enviroscape	80	5	4
11/24/15	Cedar Lee Middle School	6th Grade	Enviroscape	73	5	4
12/1/15	Liberty High School	Ecology	Leaf Pack Project - Phase II	23	3	1
12/2/15	P.B. Smith Elementary School	Ecology Club	Leaf Pack Project - Part III	43	2	1
12/3/15	Fauquier High School	Ecology	Pond Monitoring	16	1	1
12/10/15	Vint Hill Park	Ecology/AP Environmental Science	Stream Monitoring	45	3	3
12/14/15	Cedar Run	Ecology	Stream Monitoring	32	4	2
1/29/16	Liberty High School	Honors Biology	Water Monitoring	18	1	1
2/2/16	Fauquier High School	Ecology	Stream Monitoring Training	65	3	6
2/3/16	Kettle Run High School	Ecology	Stream Monitoring Training	22	1	1
2/10/16	Vint Hill Park	Ecology	Stream Monitoring	22	1	1
2/26/16	Homeschool	The Hagarty Group (Homeschool)	Water Quality/Habitat	6	1	1
3/2/16	Vint Hill Park	Ecology	Stream Monitoring	22	1	1
3/3/16	Lord Fairfax Community College	MVGS - Government	Riparian Buffers	16	3	1
3/8/16	Cedar Run	Ecology	Stream Monitoring	65	3	3
3/22/16	Marriott Ranch	Essex, Lancaster, Richmond Co. Teachers	Teacher Training (Water)	0	13	2
3/29/16	Bower Farm	Fauquier High School Ecology	Tree Planting	28	2	4
3/31/16	Plum Run Farm	Highland School AP Environmental Science	Tree Planting	12	4	4
4/4/16	Taylor Middle School	6th Grade	Water Testing	92	6	4
4/5/16	Taylor Middle School	6th Grade	Water Testing	68	4	3
4/6/16	Vint Hill Park	Ecology	Water Monitoring	22	1	1
4/7/16	Wildcat Hollow	Saunders Middle School	Trout Release/Macros Station	140	12	6
4/11/16	Liberty High School	Ecology/Environmental Science	Water Monitoring	72	6	4
4/12/16	Cedar Run	Ecology	Stream Monitoring	65	6	3
4/13/16	Choice Longhorns/Fauquier Education Farm	3rd Grade	3rd Grade Farm Field Days	276	45	16

4/14/16	Choice Longhorns/Fauquier Education Farm	3rd Grade	3rd Grade Farm Field Days	272	53	16
4/16/16	White's Mill Trail	5th Grade	Stream Cleanup	7	6	1
4/17/16	Marriott Ranch	General Public	From the Rappahannock, For the Rappahannock	15	100	1
4/19/16	Highland School	Upper School	Macroinvertebrates	48	6	4
4/22/16	Sky Meadows State Park	Homeschool	Macroinvertebrates	22	9	2
4/22/16	Bower Farm	Fauquier County Employees	Tree Planting	0	18	1
4/23/16	Sky Meadows State Park	Boy Scouts	Macroinvertebrates	15	4	1
				2782	504	167

In addition to these public outreach/involvement events, the remaining elements of the County's MS4 public outreach/involvement minimum control measure will be met by the Town of Warrenton through our MS4 cooperative agreement.

- The County's Parks and Recreation, General Services and Schools Divisions were also intended to participate in a water-oriented support function, though this activity was not clearly defined nor was there a due date established. In the future plans, a specific activity and date will be identified.

3. **MCM3 – Illicit Discharge Detection and Elimination**

- a. *Items relating to Permit Section II.B.3.f(1): A list of any written notifications of physical interconnection given by the operator to other MS4s*

Fauquier County has two interconnections to other MS4s - the Town of Warrenton and Virginia Department of Transportation. Written notification to both was mailed on July 24, 2014.

- b. *Items relating to Permit Section II.B.3.f(2): The total number of outfalls screened during the reporting period, the screening results, and detail of any follow-up actions necessitated by the screening results.*

The County's former MS4 Coordinator spent a considerable amount of time during the previous reporting period conducting outfall inventories, assessments, field reconnaissance, digitizing outfalls, and producing a system-wide GIS layer for all of the County's MS4 outfalls (see table on Page 2). Maps and other products from this mapping effort are posted on the County's MS4 webpage.

Due to the former coordinator's departure late in the reporting period, staff was not able to conduct screenings during the reporting period. Staff from Community Development performed dry-weather screenings of the thirty-one County identified outfalls between August 23 and August 26, 2016. Four outfalls were not located due to overgrowth or suspected sediment clogging. Of the twenty-seven outfalls inspected, only one outfall contained flowing water.

Although only one pipe contained an illicit dry-weather discharge, there were several outfalls that were noted to be degrading surface waters due to active erosion or evidence

of sediment located within outlet protection or outfall channels above the confluence with the stream. **Outfall deficiencies will be noted and repairs will be coordinated with the responsible parties throughout the next year.**

The suspected sediment clogged pipes are labeled in the Appendix as Outfalls O-FH11 and O-FH12. As the vicinity of the outfalls is fully stabilized, and clogged pipes cannot be a source of illicit discharges, these pipes will not be on the list of required repairs. **The vicinity will continue to be monitored in case the outfalls are uncovered in the future.**

The table that follows contains a summary of the outfalls and their condition at the time of inspection.

Table MCM3.1 Discharge Monitoring Results

Outfall ID	Outfall Location	Outfall Type	Date of Inspection	Outfall Condition
O-OA01	Alice Jane Childs Office Building	36" RCP pipe	8/24/2016	Not located due to overgrowth. The outfall did not appear to be located in the location called out on the location map. Further investigation will be conducted in the next year to identify the precise outfall location and update the location map.
O-OA02	Alice Jane Childs Office Building	21" RCP pipe	8/24/2016	Dry with fine road sediment located in outlet protection.
O-OA03	Alice Jane Childs Office Building	Swale	8/24/2016	Dry and in good condition.
O-BR01	Brumfield Elementary School	Swale	8/23/2016	Dry and in good condition.
O-BR02	Brumfield Elementary School	18" RCP pipe	8/23/2016	Dry and in good condition.
O-BR03	Brumfield Elementary School	Swale	8/23/2016	Dry and in good condition.
O-TA01	Taylor Middle School	12" RCP pipe	8/23/2016	Dry. Outfall is obstructed by vegetation.
O-TA02	Taylor Middle School	16" HDPE pipe	8/23/2016	Dry with no outlet protection and a lot of scour around the pipe. Repairs are necessary at this outfall location.
O-SH02	Maintenance Shop	12" CMP pipe	8/24/2016	The pipe is clogged and has evidence of standing water in the pipe. Mosquitoes were flying in and out of the culvert.

Outfall ID	Outfall Location	Outfall Type	Date of Inspection	Outfall Condition
O-TA03	Taylor Middle School	Swale	8/23/2016	Dry. Swale outfalls over TA02 and is scouring around the outfall pipe. The scour will need to be repaired and the swale and outfall will need to be stabilized.
O-TA04	Taylor Middle School	Swale	8/23/2016	Dry and in good condition.
O-SH01	Maintenance Shop	Gully	8/24/2016	Eroded channel has dumped parking lot gravel and sediment into channel over time. The gully needs to be repaired and stabilized.
O-SH03	Maintenance Shop	6" HDPE pipe	8/24/2016	Dry and in good condition. There is standing water in the grooves in the pipe. Asian Tiger mosquitoes were flying in and out of the pipe at the time of inspection.
O-FH01	Fauquier High School	15" CMP pipe	8/24/2016	Dry with fine road sediment in outlet protection.
O-FH02	Fauquier High School	18" HDPE pipe	8/24/2016	Not located due to overgrowth. Previous inspections were conducted in the winter.
O-FH03	Fauquier High School	12" Clay pipe	8/24/2016	Standing water in outfall.
O-FH04	Fauquier High School	18" HDPE pipe	8/24/2016	Dry and in good condition.
O-FH05	Fauquier High School	Concrete Flume	8/24/2016	Dry eroded channel downstream of flume. Erosion will need to be repaired and stabilized with outlet protection. Flowing springs adjacent to the flume.
O-FH06	Fauquier High School	18" RCP pipe	8/23/2016	Dry and in good condition.
O-FH07	Fauquier High School	12" RCP pipe	8/23/2016	Dry and in good condition.
O-FH08	Fauquier High School	12" Clay pipe	8/23/2016	Dry. End of pipe is broken, but operable.
O-FH09	Fauquier High School	Swale	8/23/2016	Dry and in good condition.

Outfall ID	Outfall Location	Outfall Type	Date of Inspection	Outfall Condition
O-FH10	Fauquier High School	4" HDPE pipe	8/26/2016	Dry and in good condition.
O-FH11	Fauquier High School	4" HDPE pipe	8/24/2016	Not located. May be buried.
O-FH12	Fauquier High School	6" PVC pipe	8/24/2016	Not located. May be buried.
O-FH13	Fauquier High School	24" Clay pipe	8/23/2016	Dry and in good condition.
O-FH14	Fauquier High School	12" RCP pipe	8/23/2016	Flowing water. Monitoring results included in the next section. Vicinity is in good condition.
O-FH15	Fauquier High School	Swale	8/23/2016	Dry and in good condition.
O-FH16	Fauquier High School	Swale	8/23/2016	Dry and in good condition.
O-FH17	Fauquier High School	Swale	8/23/2016	Dry and in good condition.
O-AU01	Auburn Middle School	40" RCP pipe	8/24/2016	Dry and in good condition.

- c. *Items relating to Permit Section II.B.3.f(3): A summary of each investigation conducted by the operator of any suspected illicit discharge. The summary must include: the date the suspected discharge was observed, reported, or both; how the investigation was resolved; and resolution of the investigation and the date the investigation was closed.*

Of the thirty-one identified outfalls, outfall O-FH14 at Fauquier High School was the sole source of illicit discharge. Monitoring was conducted on August 26, 2016 to determine the source of the flows. The flow was colorless, odorless, and lacked floatables. Results of the tested parameters are shown in the table below.

Table MCM3.2 Discharge Testing Results

Outfall O-FH14			August 26, 2016, 10AM			Sunny; High = 90s; Low = 60s			
Temp	Free Chlorine	Conductivity	Total Dissolved Solids	pH	DO (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Phosphates (mg/L)	Detergents (mg/L)
26.5°C	102 mV	217.3 µS	140 ppm	7.82	61	2	0	0	0

The lack of chlorine and the slightly basic pH would indicate that groundwater is accessing the pipe. The presence of springs in the general vicinity would support the groundwater conclusion. The location of the groundwater access point in the pipe was not visible when

tracing the line upstream at junction structures. As the water is not a source of the trace chemicals tested, the dry-weather discharge is not concerning. **Flows will continue to be monitored annually.**

d. *Status of compliance with permit conditions*

Monitoring for illicit discharge this summer has revealed that the equipment purchased for the monitoring does not provide details of Hardness or Total Suspended Solids. Furthermore, the free chlorine quantities are reported in milliVolts which may not be as descriptive as measuring chlorine in ppm. **The testing procedures for identified dry-weather discharges will be refined throughout the next year to include Hardness and Total Suspended Solids in the tested parameters. In addition, the procedure for responding to identified illicit discharges will be developed and reviewed internally throughout the next year.**

e. *BMP assessment*

Due to the small and simple nature of Fauquier County's MS4 stormwater conveyance systems, the formal requirements of the MS4 Permit is greater than necessary. The watershed draining into the County's MS4 stormwater systems is almost entirely from County-managed lands. In addition, these watersheds are extremely small. For instance, one is only two acres. There are only a couple of input points within this two acres, so if there is any illicit discharge it would not take much investigation to discover the source of this discharge since all the input points are visible from the outfall. However, the County is aware of and understands the Permit requirements and will implement appropriate-scale protocols that make sense given the County's system while being in full compliance with Permit requirements and state standards.

f. *Progress toward achieving measureable goal identified in the MS4 Program Plan*

- Inventory County Stormwater Conveyances [Due date: 12/31/15]

This item is complete. The County made a lot of progress on this element in the previous reporting cycle. Highly detailed inventories were conducted and placed in an MS4 Stormwater features GIS layer. The data in this GIS layer was then field-checked for accuracy. This layer has been maintained and is now an available resource.

4. MCM4 – Construction Site Stormwater Runoff Control

a. *Items relating to Permit Section II.B.4.f(1): Total number of regulated land-disturbing activities.*

There were no regulated land-disturbing activities within the MS4 watershed during this reporting period.

b. *Items relating to Permit Section II.B.4.f(2): Total number of acres disturbed.*

The total number of acres disturbed within the MS4 watershed for this reporting period is zero.

- c. *Items relating to Permit Section II.B.4.f(3): Total number of inspections conducted.*

The total number of inspections conducted within the MS4 area for this reporting period is zero.

- d. *Items relating to Permit Section II.B.4.f(4): A summary of the enforcement actions taken, including the total number and type of enforcement actions taken during the reporting period.*

There were no enforcement actions undertaken within the MS4 area for this reporting period.

- e. *Status of compliance with permit conditions*

Fauquier County is in full compliance with this minimum control measure.

- f. *BMP assessment*

Fauquier County's Stormwater Management/Erosion and Sediment Control Ordinance was adopted by the Fauquier County Board of Supervisors on June 12, 2014 and was subsequently approved by DEQ on March 27, 2015. Included within the Fauquier County VSMP is a set of Administrative Policies and Procedures as it relates to Plan Review, Inspections, Enforcement, Long Term Maintenance of Facilities, Bonding and Reporting and Record Keeping. These policies and procedures were reviewed and subsequently approved by DEQ and are now part of the County's VSMP. A copy of the approved Ordinance, Design Standards Manual Sections and the aforementioned policies and procedures has been placed in the official MS4 files.

- g. *Progress toward achieving measureable goal identified in the MS4 Program Plan*

The MS4 Program Plan shall include a description of the legal authorities utilized to ensure compliance with the minimum control measure related to construction site stormwater runoff control such as ordinances, permits, orders, specific contract language, and interjurisdictional agreements.

These items have been previously included.

5. MCM5 – Post-Construction Stormwater Management

- a. *Items relating to Permit Section II.B.5.e: Stormwater management facility tracking and reporting requirements. The operator shall maintain an updated electronic database of all known operator-owned and privately-owned stormwater management facilities that discharge into the MS4. The operator shall submit an electronic database or spreadsheet of all stormwater management facilities brought online during each reporting year with the appropriate annual report. Upon such time as the department provides the operators access to a statewide web-based reporting electronic database or spreadsheet, the operator shall utilize such database to complete the pertinent reporting requirements of this state permit. The database shall include the following:*

- 1) *The stormwater management facility type.*
- 2) *A general description of the facility's location, including the address or latitude and longitude.*

- 3) *The acres treated by the facility, including total acres, as well as the breakdown of pervious and impervious acres.*
- 4) *The date the facility was brought online (MM/YYYY). If the date is not known, the operator shall use June 30, 2005, as the date brought online for all previously existing stormwater management facilities.*
- 5) *The sixth order hydrologic unit code (HUC) in which the stormwater management facility is located.*
- 6) *The name of any impairment water segments within each HUC listed in the 2010 § 305(b)/303(d) Water Quality Assessment Integrated Report to which the stormwater management facility discharges.*
- 7) *Whether the stormwater management facility is operator-owned or privately-owned.*
- 8) *Whether a maintenance agreement exists if the stormwater management facility is privately owned.*
- 9) *The date of the operator's most recent inspection of the stormwater management facility. In addition, the operator shall annually track and report the total number of inspections completed and, when applicable, the number of enforcement actions taken to ensure long-term maintenance.*

A copy of this information has been provided in an Excel spreadsheet format and is attached. It should be noted that no inspections that we are aware of took place during the reporting period. These facilities have been identified and are being scheduled for inspection during the fall/early winter so that any issues can be addressed prior to the end of the next reporting period.

b. Status of compliance with permit conditions

Fauquier County is working towards full compliance with this BMP.

c. BMP assessment

Fauquier County's Stormwater Management/Erosion and Sediment Control Ordinance was adopted by the Fauquier County Board of Supervisors on June 12, 2014 and was subsequently approved by DEQ on March 27, 2015. Included within the Fauquier County VSMP is a set of Administrative Policies and Procedures as it relates to Plan Review, Inspections, Enforcement, Long Term Maintenance of Facilities, Bonding and Reporting and Record Keeping. These policies and procedures were reviewed and subsequently approved by DEQ and are now part of the County's VSMP. A copy of the approved Ordinance, Design Standards Manual Sections and the aforementioned policies and procedures has been placed within the County's MS4 files.

d. Progress toward achieving measureable goal identified in the MS4 Program Plan

- Stormwater Agreement with Brookside [Due date: 12/31/15]

The agreement has been drafted and reviewed by the County Attorney's office and sent to the property owner. At this stage we are waiting for their response.

As the agreement is presently waiting on the property owners' agreement and outside of the control of the County, at this time Fauquier County is in full compliance with this minimum control measure.

6. MCM6 – Pollution Prevention/Good Housekeeping for Municipal Operations

- a. *Items relating to Permit Section II.B.6.g(1): A summary report on the development and implementation of the daily operational procedures.*

These are identified through the various departmental SOPs and plans identified under measure g. below.

- b. *Items relating to Permit Section II.B.6.g(2): A summary report on the development and implementation of the required SWPPPs*

The audits that are scheduled to begin in the upcoming year are anticipated to identify the need for required SWPPPs which in turn will allow for the requested summary report. Fauquier County has already developed a template for the SWPPPs which will be utilized for any appropriate projects.

- c. *Items relating to Permit Section II.B.6.g(3): A summary report on the development and implementation of the turf and landscape nutrient management plans that includes: total acres of lands where turf and landscape nutrient plans are required; and the acreage of lands upon which turf and landscape management plans have been implemented;*

Nutrient Management Plans have been prepared for Fauquier High School, Liberty High School (non-MS4; Marsh Run Watershed [RA17]), and Kettle Run High School (Kettle Run Watershed [PL33] not an MS4 Permitted Stormwater System, but within the same watershed as MS4 Permitted facilities). These plans have been formally implemented through a contract the County issued to Premier Sports, LLC. The MS4 Coordinator has copies of these reports and receives annual fertilizer use logs from Premier Sports, LLC. Additionally, nutrient management plans have been prepared for Auburn Middle School, Taylor Middle School, CM Bradley Elementary School, PB Smith Elementary School, and Warrenton Middle School; copies have been submitted to the MS4 Coordinator.

Site	Sub-water-shed	Date	Total lbs	Rate N	Rate P	Rate K	lbs N	lbs P	lbs K
Fauquier HS	RA07	7/15/2015	195	0.21	0	0	40.95	0	0
Fauquier HS	RA07	8/13/2015	329.4	0.24	0.06	0.12	79.056	19.764	39.528
Fauquier HS	RA07	8/14/2015	407.5	0.24	0.06	0.12	97.8	24.45	48.9
Fauquier HS	RA07	10/19/2015	130.4	0.24	0.06	0.12	31.296	7.824	15.648
Fauquier HS	RA07	10/30/2015	515	0.21	0	0	108.15	0	0
Fauquier HS	RA07	10/30/2015	515	0.21	0	0	108.15	0	0
Fauquier HS	RA07	3/31/2016	400	0.05	0	0.2	20	0	80
Fauquier HS	RA07	3/29/2016	417.5	0.24	0.03	0.12	100.2	12.525	50.1
Fauquier HS	RA07	3/25/2015	133.6	0.24	0.03	0.12	32.064	4.008	16.032
Fauquier HS	RA07	5/18/2016	407.5	0.24	0.06	0.12	97.8	24.45	48.9
Fauquier HS	RA07	6/10/2016	195	0.21	0	0	40.95	0	0
FC Offices	RA07	3/25/2015	334	0.24	0.03	0.12	80.16	10.02	40.08
FC Offices	RA07	5/11/2015	322	0.25	0.05	0.1	80.5	16.1	32.2
Auburn MS	PL33	8/25/2015	326	0.24	0.06	0.12	78.24	19.56	39.12
Auburn MS	PL33	10/22/2015	215	0.19	0.19	0.19	40.85	40.85	40.85
Auburn MS	PL33	11/13/2015	195	0.21	0	0	40.95	0	0
Auburn MS	PL33	3/29/2016	175	0.24	0.03	0.12	42	5.25	21
Taylor MS	PL36	8/25/2015	400	0.24	0.06	0.12	96	24	48
Taylor MS	PL36	10/22/2015	215	0.19	0.19	0.19	40.85	40.85	40.85
Taylor MS	PL36		195	0.21	0	0	40.95	0	0
Taylor MS	PL36		175	0.24	0.03	0.12	42	5.25	21
	Total		6,197.90				1338.9	254.9	582.2
Summary by Watershed									
	RA07						917.08	119.14	371.39
	PL33						202.04	65.66	100.97
	PL36						219.8	70.1	109.85
	Total		6,197.90				1338.9	254.9	582.2

There are a total of 11 Fauquier County owned and managed sites within the designated MS4 area that contain stormwater conveyances, and therefore subject to the requirements of the MS4 Permit. The sites are as follows:

Site	Managing Department	Acres in MS4 Watershed	Watershed	Total Fertilized Acres within Watershed	Fertilized Acres
Vint Hill-Village Green (part 1)	Fauquier County Parks and Recreation Department	3.66	PL32	0	0
Vint Hill-Village Green (part 2)	Fauquier County Parks and Recreation Department	17.60	PL33	30.2	17.6
Auburn Middle School	Fauquier County Schools (and Fauquier County General Services for the newly-acquired parcels, BMP, and outfall)	26.65			12.6
P.B. Smith Elementary School	Fauquier County Schools	7.41	PL35	15.4	7.8
C.M. Bradley Elementary School	Fauquier County Schools	7.66			7.6
Brumfield Elementary School	Fauquier County Schools	18.85	PL36	5.9	0
Taylor Middle School	Fauquier County General Services	7.35			5.9
Warrenton Community Center	Fauquier County Parks and Recreation Department	4.64			0
Fauquier High School	Fauquier County Schools	38.58	RA07	19.4	12.8
Maintenance Shop	Fauquier County General Services	1.99			0
Fauquier County & Public Health Dept. offices	Fauquier County General Services	8.97			0
Warrenton Middle School	Fauquier County Schools	9.76			6.6
Total		153.10		70.9	70.9

- d. *Items relating to Permit Section II.B.6.g(4): A summary report on the required training, including a list of training events, the training date, the number of employees attending training and the objective of the training.*

The operator shall develop an annual written training plan including a schedule of training events that ensures implementation of the training requirements as follows:

(1) The operator shall provide biennial training to applicable field personnel in the recognition and reporting of illicit discharges. [Community Development]

With monitoring presently remaining within Community Development, applicable field personnel are trained to recognize and report illicit discharges.

(2) The operator shall provide biennial training to applicable employees in good housekeeping and pollution prevention practices that are to be employed during road, street, and parking lot maintenance. [General Services/Schools/Parks and Recreation]

This item is presently addressed through departmental SOP's; however, with the modular training opportunity, can be implemented as a more frequent training item.

(3) The operator shall provide biennial training to applicable employees in good housekeeping and pollution prevention practices that are to be employed in and around maintenance and public works facilities. [General Services/Schools/Parks and Recreation]

Fauquier County Schools provided MS4-specific training and has planned a responsible MS4 training plan for out-years. Parks and Recreation has also held a training for their supervisors. Both General Services and Community Development have plans for trainings starting in the upcoming year.

(4) The operator shall ensure that employees, and require that contractors, who apply pesticides and herbicides are properly trained or certified in accordance with the Virginia Pesticide Control Act (§3.2-3900 et seq. of the Code of Virginia). [General Services/Schools/Parks and Recreation]

Although no known pesticides or herbicides were applied last year within the MS4 area, many of these sites do use these products situationally. All major MS4 departments have been notified of this need and Fauquier County will ensure that any future contractors are appropriately trained and certified.

(5) The operator shall ensure that employees and contractors serving as plan reviewers, inspectors, program administrators, and construction site operators obtain the appropriate certifications as required under the Virginia Erosion and Sediment Control Law and its attendant regulations.

Fauquier County Community Development ensures that all employees and contractors serving as plan reviewers, inspectors and program administrators are currently certified as required under the Virginia Erosion and Sediment Control Law and its attendant regulations.

(6) The operator shall ensure that applicable employees obtain the appropriate certifications as required under the Virginia Erosion and Sediment Control Law and its attendant regulations.

Fauquier County Community Development ensures that all applicable employees within our department have obtained the appropriate certifications as required under the Virginia Erosion and Sediment Control Law and its attendant regulations.

(7) The operators shall provide biennial training to applicable employees in good housekeeping and pollution prevention practices that are to be employed in and around recreational facilities. [Parks and Recreation]

See the training section in item number (3) above, and within minimum control measure (MCM) number 1.

(8) The appropriate emergency response employees shall have training in spill responses. A summary of the training or certification program provided to emergency response employees shall be included in the first annual report.

Fauquier County Schools continue to provide “Science Lab Safety” certification to appropriate teachers. Additionally, General Services has developed a spill protocol for the County fueling station which is expected to be a training module in the upcoming year for all drivers of County vehicles.

(9) The operator shall keep documentation on each training event including the training date, the number of employees attending the training, and the objective of the training event for a period of three years after each training event. [General Services/Schools/Parks and Recreation]

All affected departments have been notified of this need. The County is currently exploring options to formalize this policy and ensure consistent implementation.

e. Status of compliance with permit conditions

Fauquier County has made progress on individual tasks associated with this minimum control measure, but this is still the main area with our MS4 responsibilities in which we need improvement. The compliance challenges involve both individual tasks and overall programmatic issues. Ensuring systemic organizational changes across the diverse departments within the County and the Schools (which have their own separate Board, policies, and procedures) takes time. While progress in systemic organizational changes may not be fully in compliance with the MS4 Permit expectation, Fauquier County is actively attempting to make these needed changes that will hopefully bring us into compliance as the MS4 Program matures with Fauquier County. Recent increased communication and collaboration across the divisions is an encouraging start to meeting all of the permit conditions.

f. BMP assessment

This BMP seems appropriate for Fauquier County and the County will continue to explore means to gain better compliance as our MS4 program matures.

g. Progress toward achieving measureable goal identified in the MS4 Program Plan

See section e. above.

Schools:

Task	Due Date	Comments
Continue managing Fauquier High School activity fields according to approved nutrient management plan	Ongoing	The fields are being managed in accordance with the nutrient management plan. Fauquier County Schools is in full compliance.
Finalize the nutrient management plans for Brumfield Elementary School site.	N/A	The fields at this location are not fertilized therefore no nutrient management plan is necessary. Fauquier County Schools is in full compliance.
Provide one general MS4 training session to all custodians.	Summer 2016	Two sessions occurred during the summer of 2016, though outside of the reporting period as they occurred on 7/19/16 and 8/8/16. Fauquier County Schools is in full compliance.
Provide one general MS4 training session to new staff	Ongoing	This training has been developed and is being provided to new staff with the most recent session occurring in May of 2016. Fauquier County Schools is in full compliance.
Continue offering Science Lab Safety certifications	Ongoing	These certifications continue to be encouraged for teachers of laboratory classes. Fauquier County Schools is in full compliance.
Finalize Chemical Hygiene Plan (and implement) containing sections on custodial operations and green materials procedures.	October 2016	This item had been targeted for August of 2016, but has been pushed back to October of 2016 to allow for the start of the school year to pass prior to implementation. As this was outside of the reporting period, Fauquier County Schools is in compliance.
Update custodial program manual	October 2016	This item had been targeted for August of 2016, but has been pushed back to October of 2016 to allow for the start of the school year to pass prior to implementation. As this was outside of the reporting period, Fauquier County Schools is in compliance.
Develop and implement IPM Plan	06/30/2016	This plan is partially in place and is expected to be fully implemented by 6/30/2017. Fauquier County Schools is partially in compliance.
Design and implement a MS4 facility inspection and audit program with quarterly inspections.	2/28/2017	Previously identified as ongoing, inspections have not taken place. First coordination with MS4 coordinator scheduled for February 2017. Fauquier County Schools not yet in compliance.

In summary, while there is still progress to be made by Fauquier County Schools, in general, they are in compliance with this minimum control measure.

General Services:

Task	Due Date	Comments
Finalize the nutrient management plans for the Fauquier County Office complex.	6/30/2017	As of 06/30/16 these plans were not yet completed, but since it is not due until 6/30/17, General Services is in full compliance.
Provide one general MS4 training session to all department staff.	TBD	General Services has coordinated with County Human Resources to provide simple and effective online training modules to allow for not only department staff training options, but also County wide applications. The first module is expected to be offered in the next reporting period and with no due date identified, General Services is in full compliance.
Provide fuel spill response training specific to the County's fuel pump station to drivers of County vehicles.	06/30/16	This training has not yet occurred but is anticipated to be the first of the sessions referenced above and is expected to occur prior to 12/31/2016. General Services is not yet in full compliance.
Write and implement Stormwater BMP Maintenance Plan	12/31/2015	General Services coordinated with Community Development to obtain example language to develop this plan which was completed in September 2016. While completed outside of the reporting period, General Services is presently in full compliance.
Develop and implement a Maintenance Equipment Cleaning SOP	12/31/2015	This SOP is still being drafted. The expected due date has been revised to 12/31/2016. General Services is not yet in full compliance.
Develop and implement a Fueling Station SOP	5/31/2016	This SOP is still being drafted. The expected due date has been revised to 12/31/2016. General Services is not yet in full compliance.
Develop and implement a sustainable practices SOP	6/30/2016	This SOP is still being drafted. The expected due date has been revised to 12/31/2016. General Services is not yet in full compliance.
Design and implement a MS4 facility inspection and audit program with quarterly inspections.	12/31/2016	Previously identified as ongoing, inspections have not taken place. First coordination with MS4 coordinator scheduled for December 2016. General Services is not yet in compliance.

In summary, the General Services Department has made significant strides towards being in compliance with this minimum control measure.

Parks and Recreation:

Task	Due Date	Comments
Finalize nutrient management plans for school sites.	3/30/2015	Nutrient management plans have been developed for Auburn Middle School, P.B. Smith Elementary School, C.M. Bradley Elementary School, Warrenton Middle School and Taylor Middle School. Parks and Recreation is in full compliance.
Finalize nutrient management plans for Vint Hill Village Green.	3/30/2016	Nutrient management plans have been developed for Vint Hill Village Green. Parks and Recreation is in full compliance.
Provide a general MS4 training session to department supervisors.	TBD	MS4-related training was given to Parks and Recreation supervisors. Parks and Recreation is in full compliance.
Develop a pool management plan that focuses on draining and disposing of chlorinated pool water.	12/31/2015	Pool backwash instructions and documentation explaining the sodium thiosulfate erosion feeder have been developed and distributed. Parks and Recreation is in full compliance.
Acquire additional chemical storage facilities.	06/30/16	New storage facilities have been acquired. Parks and Recreation is in full compliance.
Design and implement an MS4 facility inspection and audit program with quarterly inspections.	1/31/2017	Previously identified as ongoing, inspections have not taken place. First coordination with MS4 coordinator scheduled for December 2016. Parks and Recreation is not yet in compliance.

In summary, the Parks and Recreation Department is in compliance with this minimum control measure.

Community Development:

Task	Due Date	Comment
Provide one general MS4 training session to all department staff.	TBD	In much the same vein as General Services, Community Development intends to take advantage of the new Human Resources modular online training. The first module is expected to be offered in the next reporting period and with no due date identified, Community Development is in full compliance.
Provide training to all personnel conducting illicit discharge monitoring.	Spring 2016	Monitoring is presently being conducted by Community Development staff who are trained to conduct the monitoring. Community Development is in full compliance.

Conduct monthly audits with departments involved in MS4 maintenance	12/31/2016	Previously identified as ongoing, inspections have not taken place. Plans have been established for a rotating monthly visit with County Schools, Parks and Recreation and General Services to conduct audits. Community Development is not yet in compliance.
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In summary, the Community Development Department, in general, is in compliance with this minimum control measure.

Overall Fauquier County Summary:

Overall, Fauquier County is meeting the threshold of compliance with their MS4 responsibilities. The County’s biggest need is to continue to integrate these MS4 tasks into the project tracking systems that each department uses for non-MS4 tasks, and to transition from the idea that MS4 is just a collection of random and isolated tasks, into the understanding that it is an integral operational and programmatic responsibility. Recent increases in communication and inter-departmental collaboration has provided an encouraging start to this process.

C. Results of information collected and analyzed, including monitoring data, if any, during the reporting period

Data, products, and other related material is on file in the County’s MS4 files.

D. A summary of the stormwater activities the operator plans to undertake during the next reporting cycle

Community Development plans to continue its participation in riparian tree planting events hosted by John Marshall SWCD, augment advertising efforts that the John Marshall SWCD implement for their rain barrel projects, and Environmental Services’ household hazardous waste collection events. In addition, the stormwater program will develop and implement their stormwater SWPPP templates. General Services, Parks and Recreation, and Schools will also look to host or promote one or more events for each department. Taken as a whole, Fauquier County will more than meet this standard.

E. A change in any identified best management practices or measurable goals for any of the minimum control measures including steps to be taken to address any deficiencies

Proposed changes were addressed within each individual minimum control measure responses.

F. Notice that the operator is relying on another government entity to satisfy some of the state permit obligations (if applicable)

As stated previously, Fauquier County will be relying upon the Town of Warrenton for many aspects of minimum control measure one (1) and two (2) and for our pollution reduction goals within our forthcoming TMDL Action Plan.

G. The approval status of any programs pursuant to Section II.C of the general permit (if appropriate), or the progress towards achieving full approval of these programs. If the program the operator is using requires the approval of a third party, the program must be fully approved by the third party, or the operator must be working towards getting full approval.

Documentation of the program's approval status, or the progress towards achieving full approval, must be included in the annual report.

- Agreement with the Town of Warrenton (this includes a stormwater communications protocol) [Due date: 12/31/15]

The Agreement was adopted by the County Board of Supervisors on October 8, 2015. The Agreement includes six terms and conditions related to: Public Education Outreach; Public Involvement and Participation; Illicit Discharge Procedures; TMDL Action Plan; notification of accomplishments and implementation of nutrient reduction strategies.

- Agreement with Brookside [Due date: 12/31/15]

The agreement is in the hands of the property owners and the County is awaiting their approval and signatures to execute the agreement.

H. Information required for any applicable TMDL special condition contained in Section I of the general permit.

The County calculated and determined what its nitrogen, phosphorus, and total suspended solids reduction totals will be to meet the 5-percent and 40-percent goals. The chart depicting the 40-percent goal is attached and included in this Annual Report submittal.

Since this is the County's first MS4 Permit, we decided that we will defer our pollution-reduction goals of our TMDL Action Plan until the end of the next Permit Cycle (40-percent reduction by June 30, 2022).

The Stormwater BMPs within Fauquier County's MS4 watershed include: two Extended Detention Ponds (both owned by the County), one Wet Pond (owned by Brookside Homes (a private HOA), and 17 systems of Grassy Swales (all owned by the County).

The Wet Pond meets current Virginia Stormwater BMP Clearinghouse standards, but since it is privately owned, the County initiated a formal agreement with the owners. Among other things, this agreement would legally and formally state that this private HOA will treat the stormwater from the portion of Auburn Middle School that currently discharges to this wet pond. This agreement was drafted and submitted for review within this last year.

The County's Extended Detention Pond is believed to meet all current standards, but there is no "As-Built" survey in order to assess if it meets the standards; therefore, we do not know what the pollution-reduction efficiency is. The other Extended Detention Pond is an old pond, and it may not meet current design standards. In addition, all the Grass Swales are old and "As-Built" surveys were completed in the prior reporting year, with the specific analysis of each BMP continuing into this reporting year. These surveys identified numerous opportunities for improvements to swales to increase their efficiency in treating runoff as many do not presently meet the 1999 Grass Swale criteria. These improvements will be discussed and potentially implemented in the upcoming year.

The County entered into a formal MS4 agreement with the Town of Warrenton (also a permitted MS4 entity) within this last reporting year. Among other things, this agreement states that the Town of Warrenton agrees to meet most of the County's TMDL pollution-reduction goals.

Although it is not due for several years, the County cannot draft an accurate TMDL Action Plan until all analysis of its current stormwater BMP As-built plans and surveys are completed, and until after the Town of Warrenton completes their TMDL Action Plan.

I. Signed certification statement.

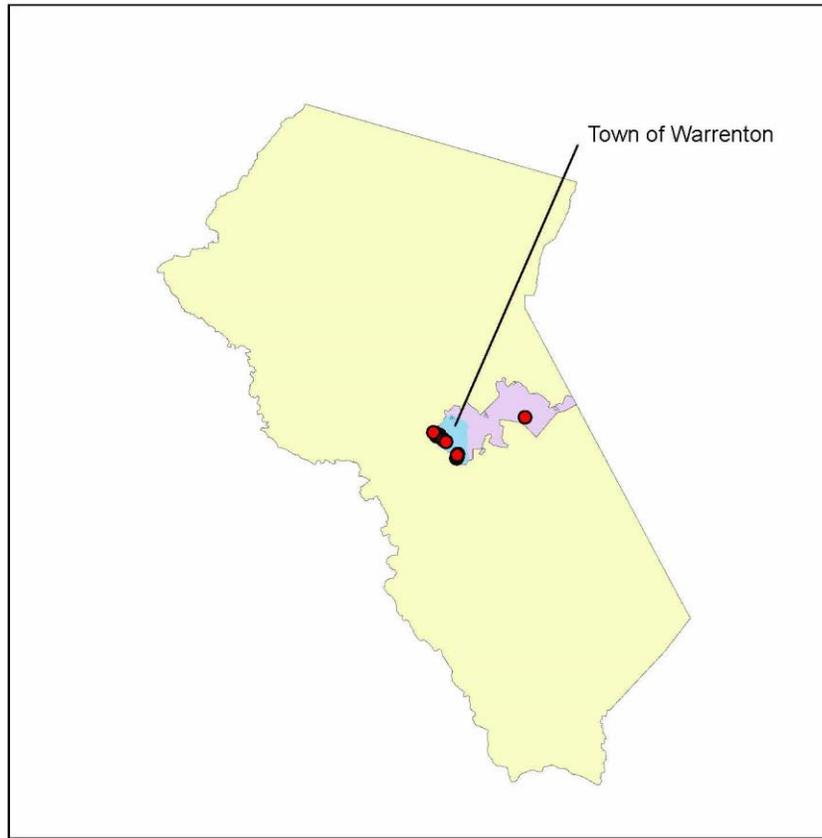
See final page.

Appendix

The Annual Report shall include: a table in the appendix depicting the outfall map.

- Attached are six outfall maps:
 - 1) An overview map of the County's MS4 area in relation to Fauquier County

The Location of the 31 Outfalls within Fauquier County's MS4 Area



Legend

- Outfalls
- County Boundary
- Urbanized Area

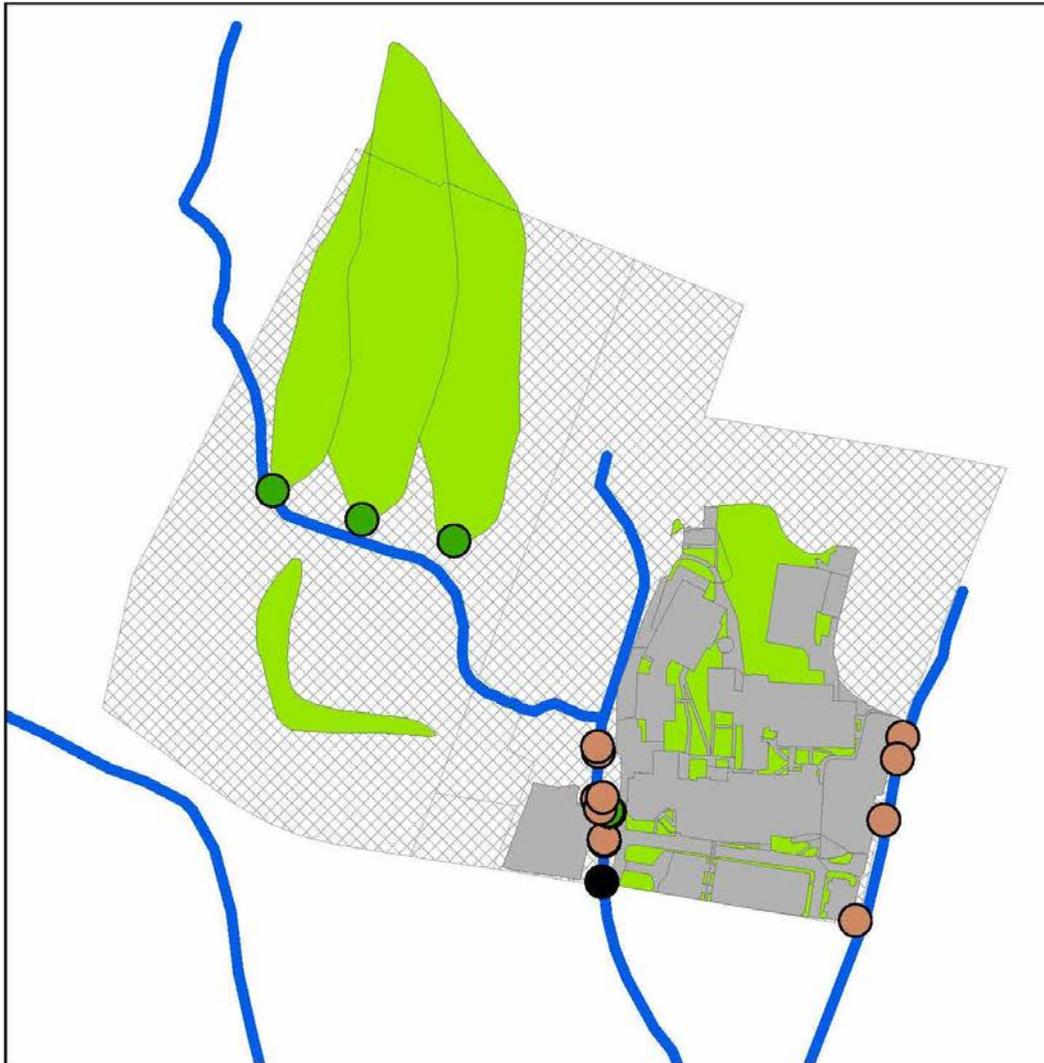
0 4.25 8.5 17 Miles



Produced by Fauquier Co. Community Development- Environmental Planning

2) The location of outfalls within Fauquier High School

The Location of the 17 Outfalls within Fauquier High School



Outfall

Type

- Flume
- Pipe
- Swale

Other Elements

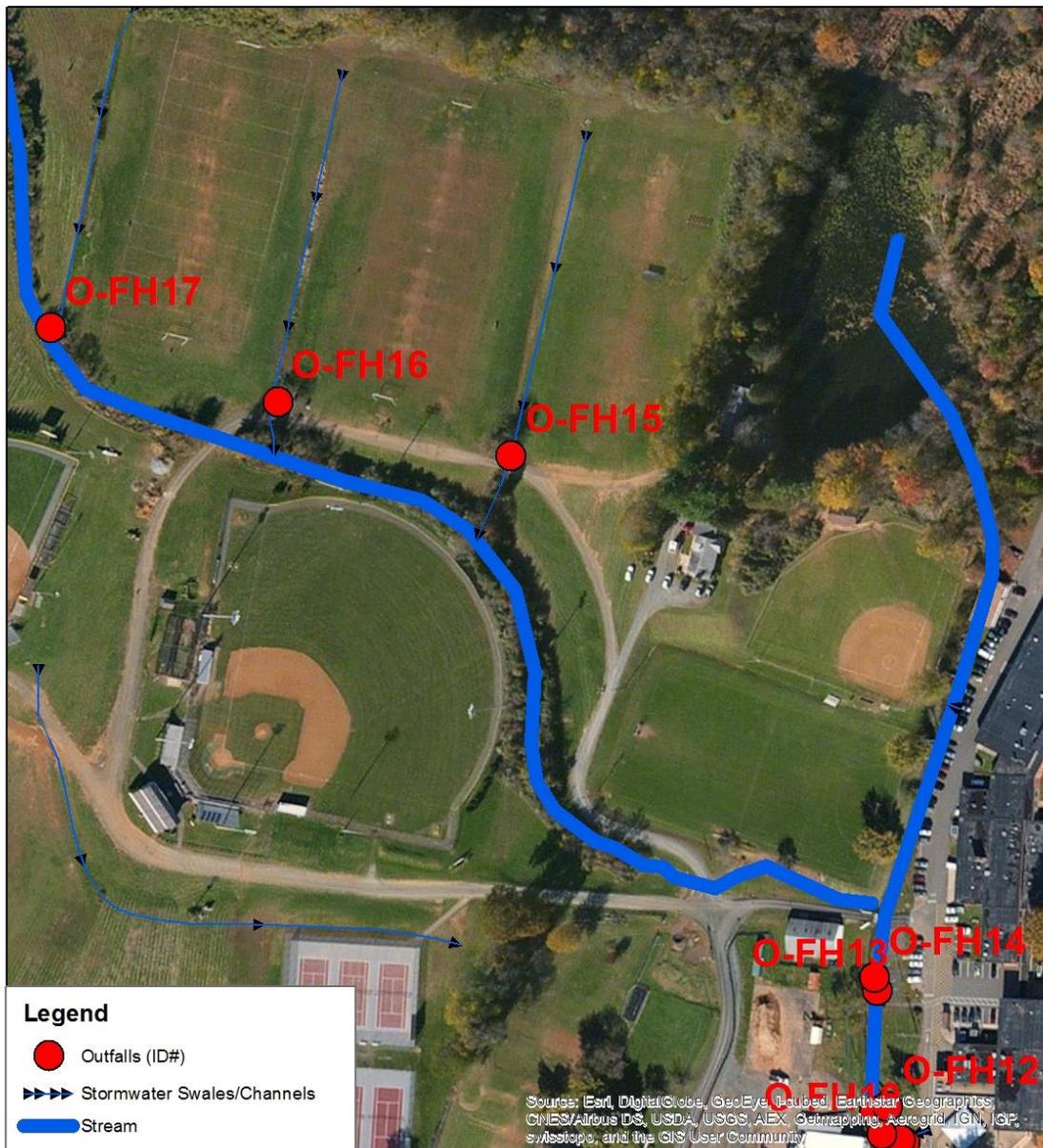
- Impervious
- Pervious
- Stream
- ▨ County Property

0 0.05 0.1 0.2 Miles

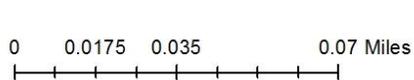


Produced by Fauquier Co. Community Development- Environmental Planning

MS4 Outfalls Near Northwestern Part of Fauquier High School

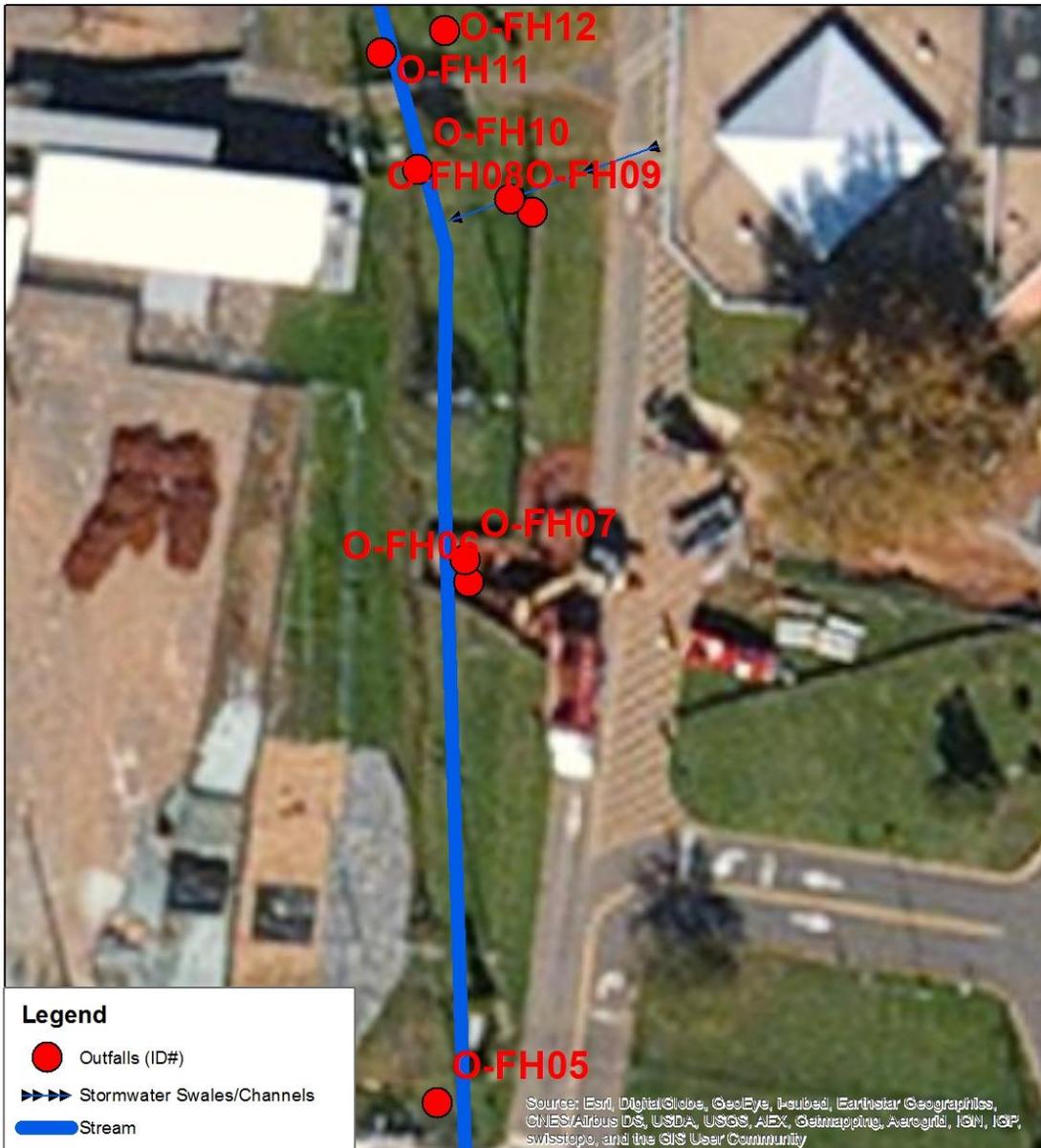


Note: This entire site drains to the Rappahannock River via the Great Run, within the Rappahannock River-Great Run Watershed (RA07). There is an Impaired Water that is Not Supporting for Recreational Uses due to E. coli, and for Aquatic Life due to Benthic-Macroinvertebrate Bioassessments, located 2.26 miles downstream from O-FH14. The total acreage of the Fauquier High School MS4 watershed is 38.58 acres.

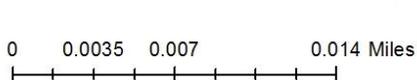


Produced by Fauquier Co. Community Development- Environmental Planning

MS4 Outfalls Near Southwestern Part of Fauquier High School



Note: This entire site drains to the Rappahannock River via the Great Run, within the Rappahannock River-Great Run Watershed (RA07). There is an Impaired Water that is Not Supporting for Recreational Uses due to E. coli, and for Aquatic Life due to Benthic-Macroinvertebrate Bioassessments, located 2.26 miles downstream from O-FH14. The total acreage of the Fauquier High School MS4 watershed is 38.58 acres.

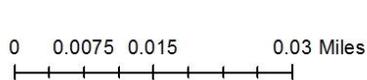


Produced by Fauquier Co. Community Development- Environmental Planning

MS4 Outfalls Near Eastern Part of Fauquier High School



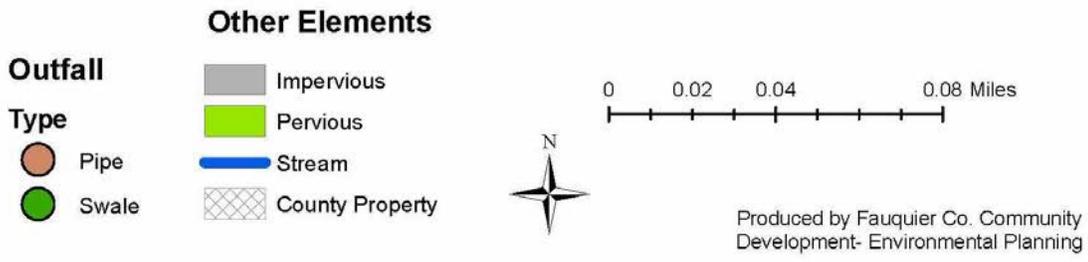
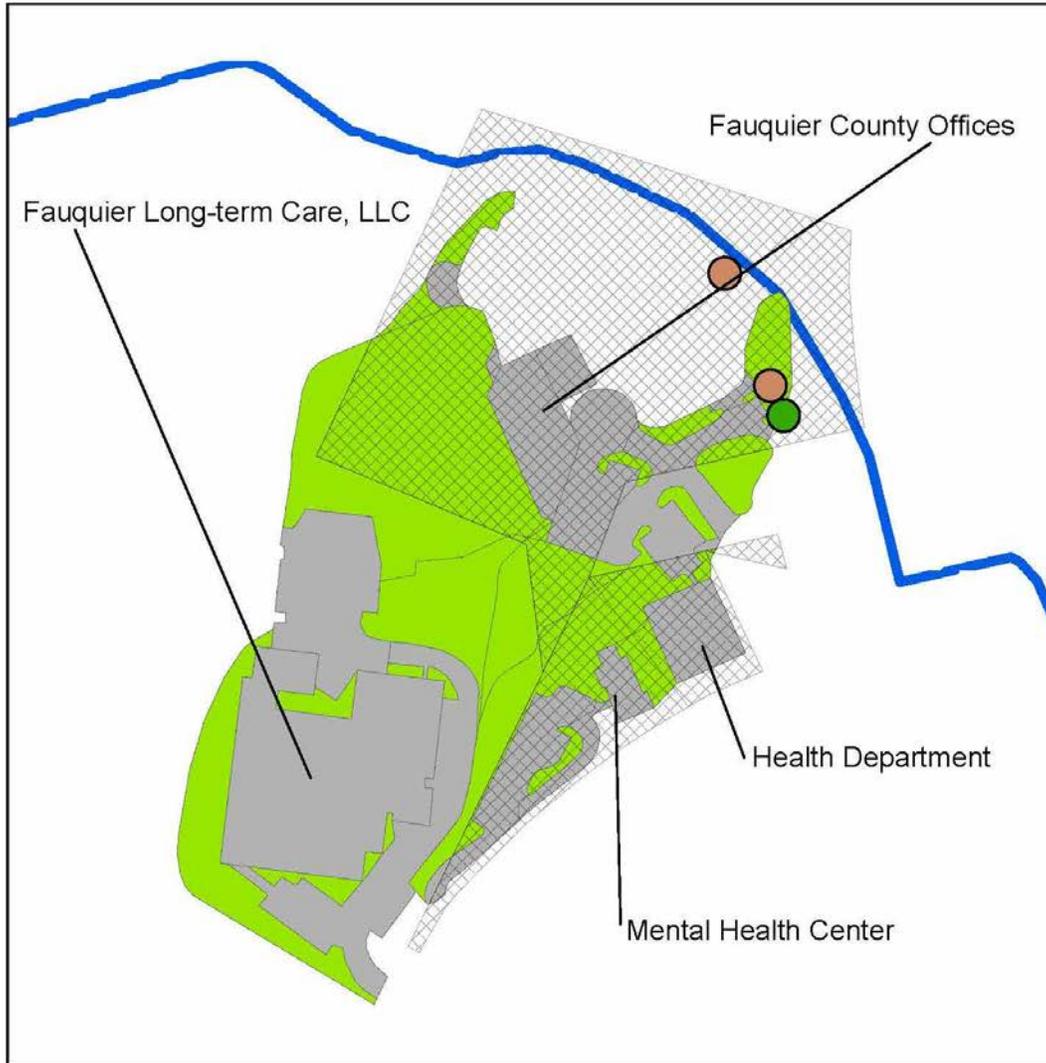
Note: This entire site drains to the Rappahannock River via the Great Run, within the Rappahannock River-Great Run Watershed (RA07). There is an Impaired Water that is Not Supporting for Recreational Uses due to E. coli, and for Aquatic Life due to Benthic-Macroinvertebrate Bioassessments, located 2.26 miles downstream from O-FH14. The total acreage of the Fauquier High School MS4 watershed is 38.58 acres.



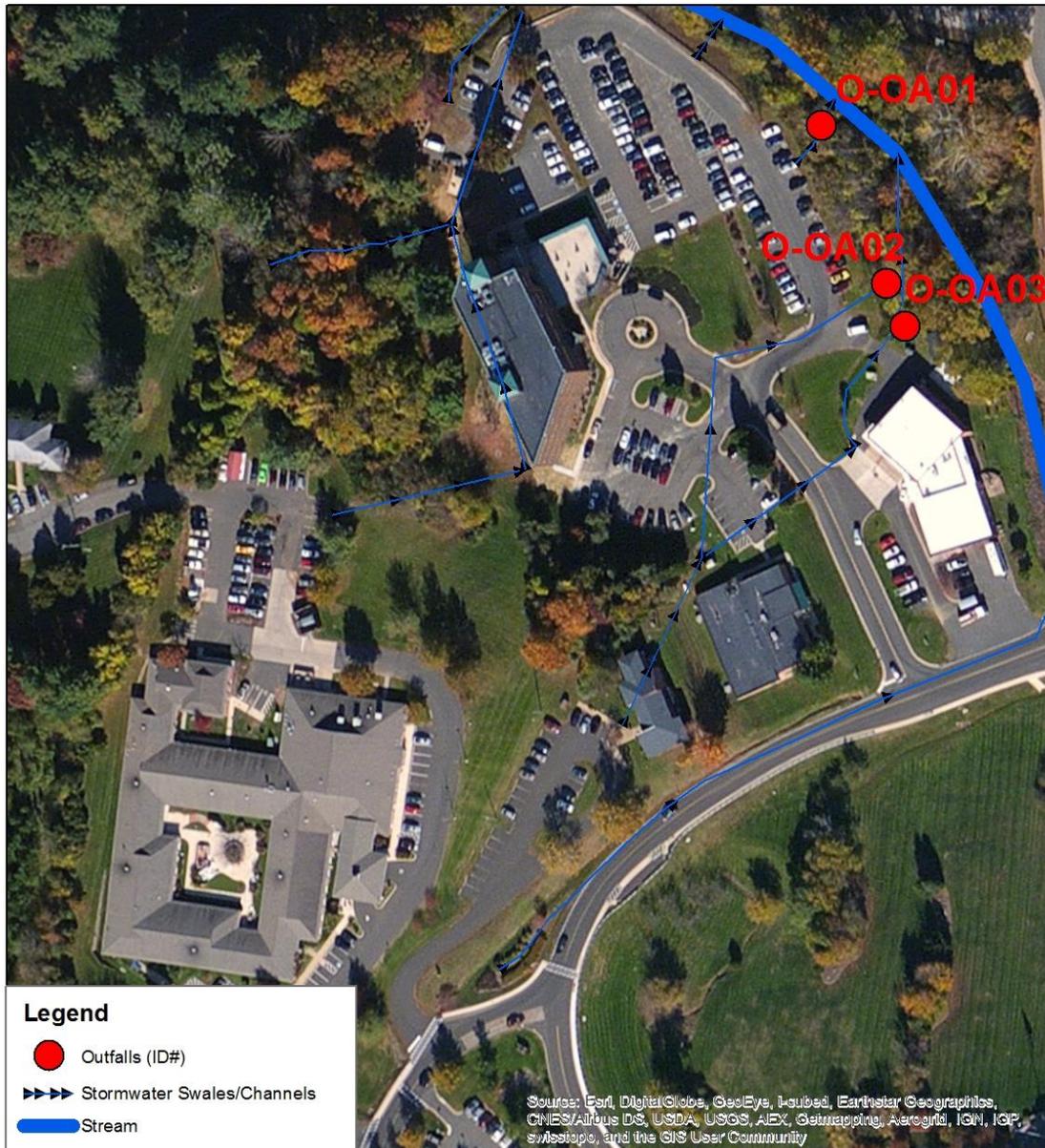
Produced by Fauquier Co. Community Development- Environmental Planning

3) The location of outfalls within the Office Complex

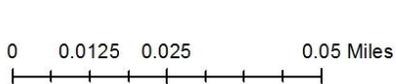
The Location of the 3 Outfalls within the Office Complex



MS4 Outfalls Near the Fauquier County Office Complex



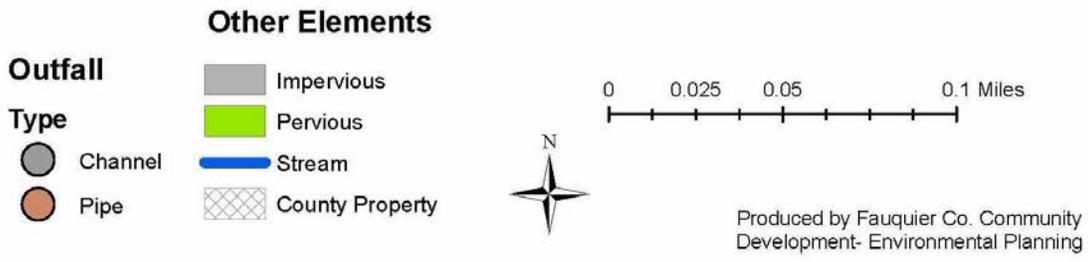
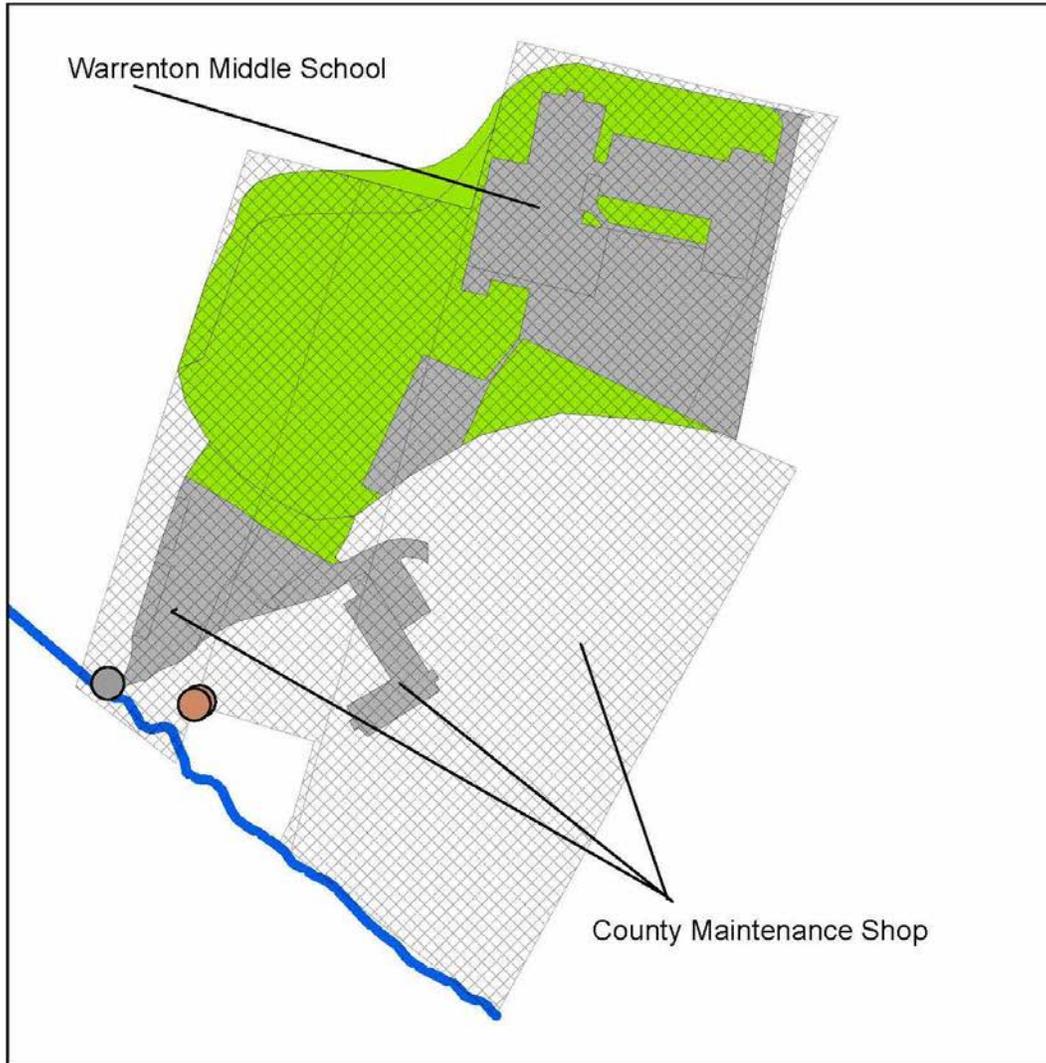
Note: This entire site drains to the Rappahannock River via the Great Run, within the Rappahannock River-Great Run Watershed (RA07). There is an Impaired Water that is Not Supporting for Recreational Uses due to E. coli, and for Aquatic Life due to Bethic-Macroinvertebrate Bioassessments, located 2.34 miles downstream from O-OA01. The total acreage of the Office Complex MS4 watershed is 8.97 acres.



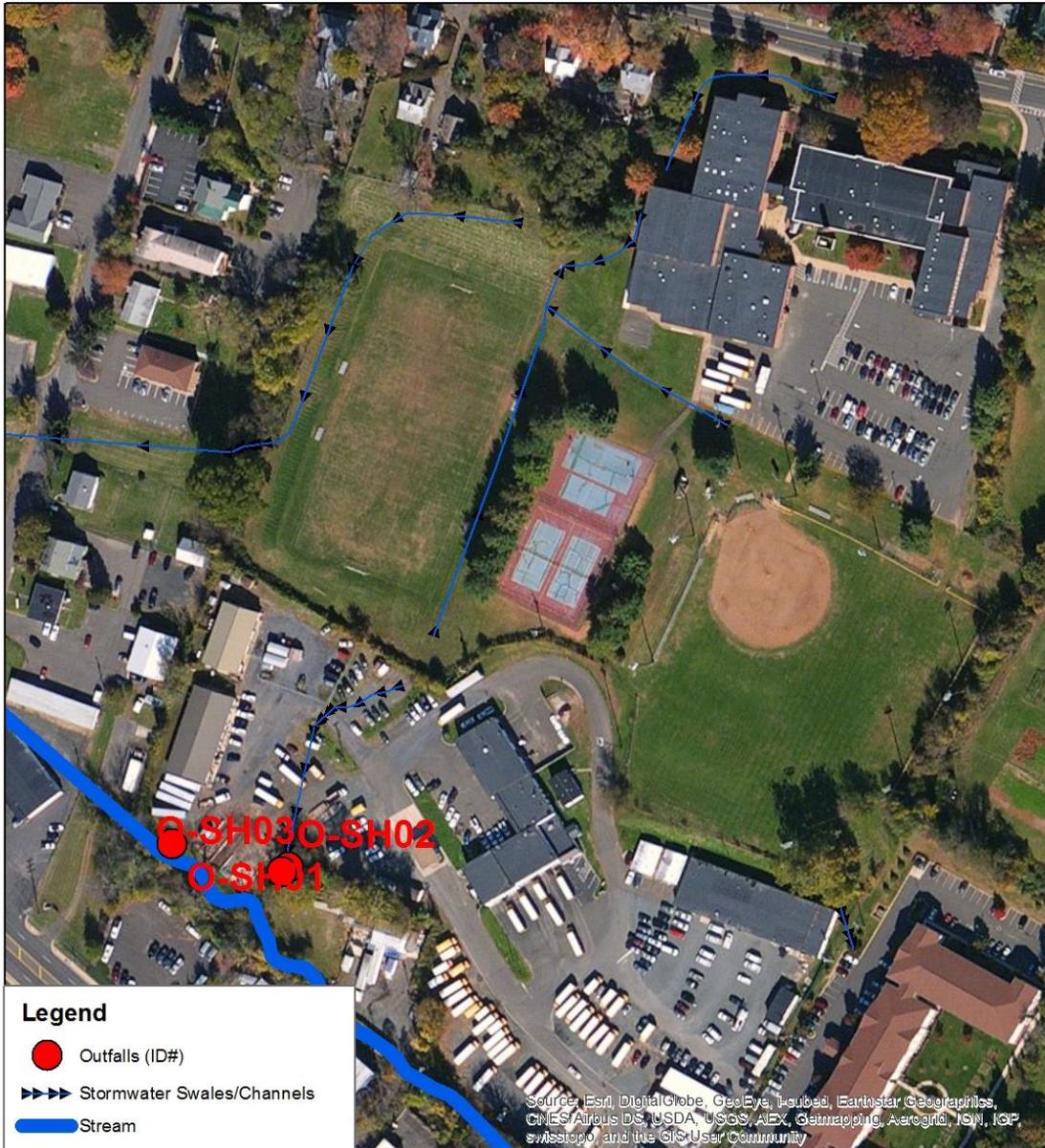
Produced by Fauquier Co. Community Development- Environmental Planning

4) The location of outfalls within the Maintenance Shop

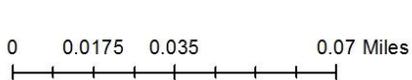
The Location of the 3 Outfalls within the Maintenance Shop



MS4 Outfalls Near the County Garage/Warrenton Middle School



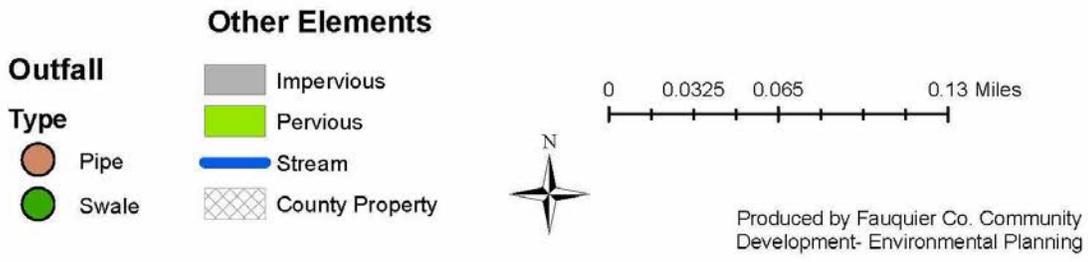
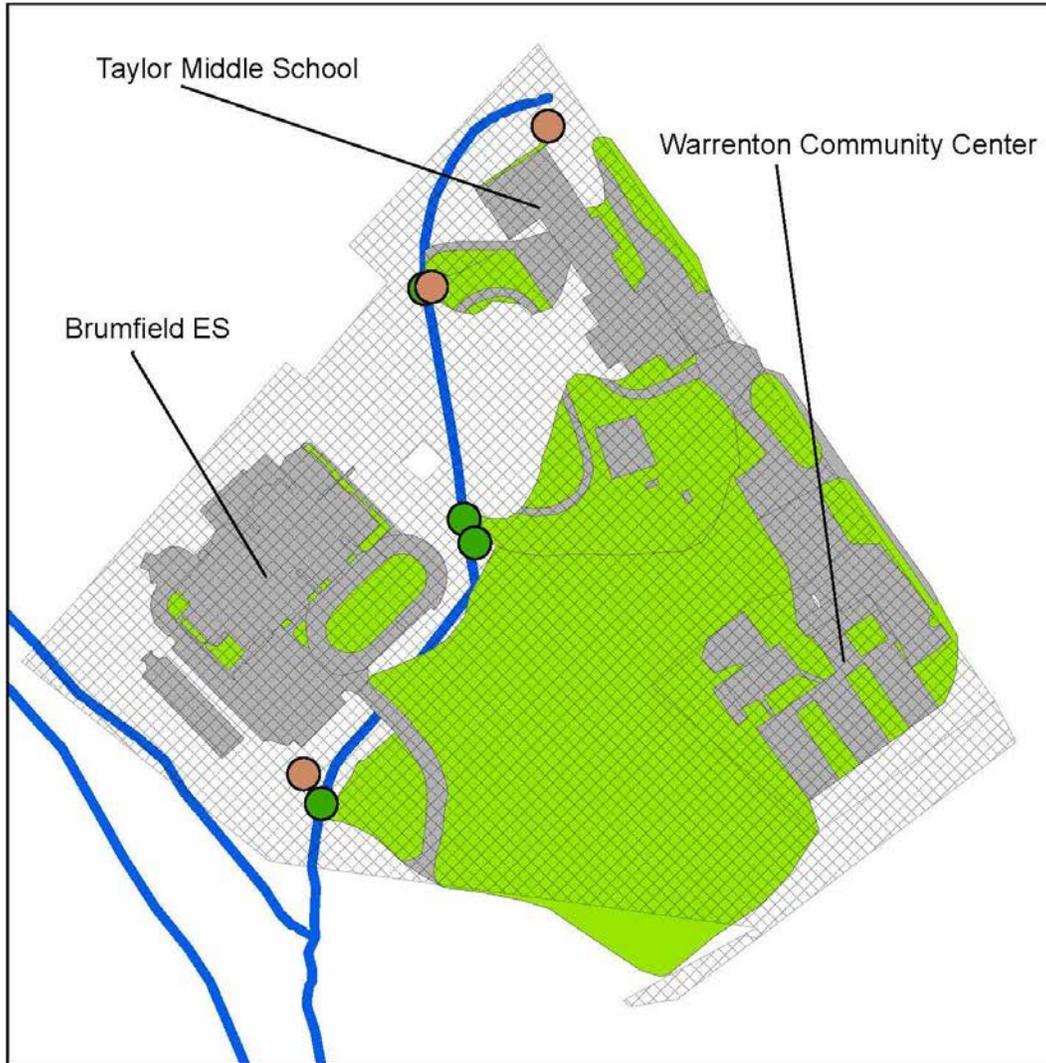
Note: This entire site drains to the Rappahannock River via the Great Run, within the Rappahannock River-Great Run Watershed (RA07). There is an Impaired Water that is Not Supporting for Recreational Uses due to E. coli, and for Aquatic Life due to Benthic-Macroinvertebrate Bioassessments, located 2.58 miles downstream from O-SH03. The total acreage of the Bus Garage/Warrenton Middle School MS4 watershed is 1.99 acres.



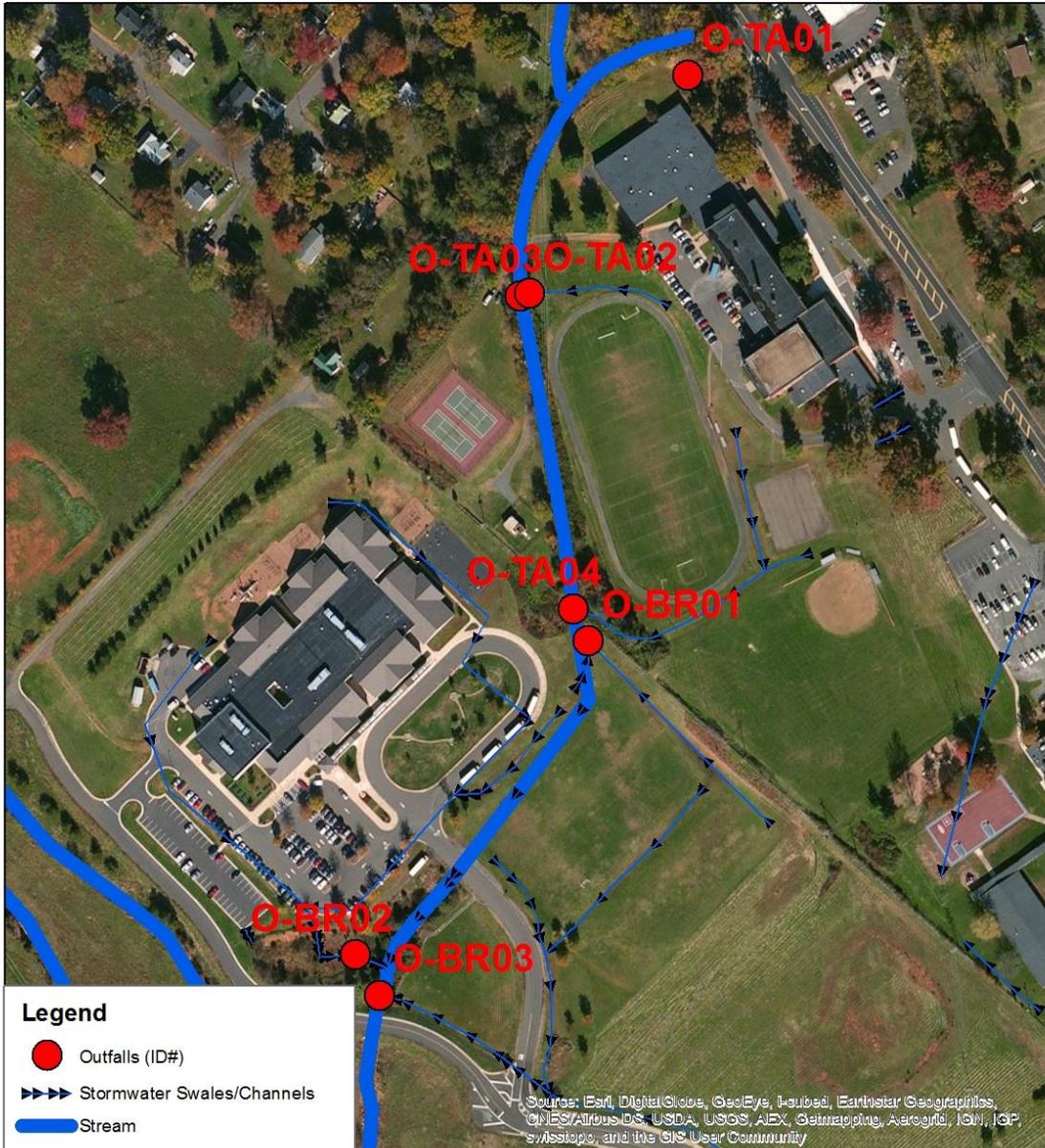
Produced by Fauquier Co. Community Development- Environmental Planning

5) The location of outfalls in the Taylor Middle School/Brumfield Elementary School complex

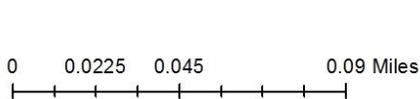
The Location of the 7 Outfalls within Taylor MS/Brumfield ES



MS4 Outfalls Near Taylor Middle School

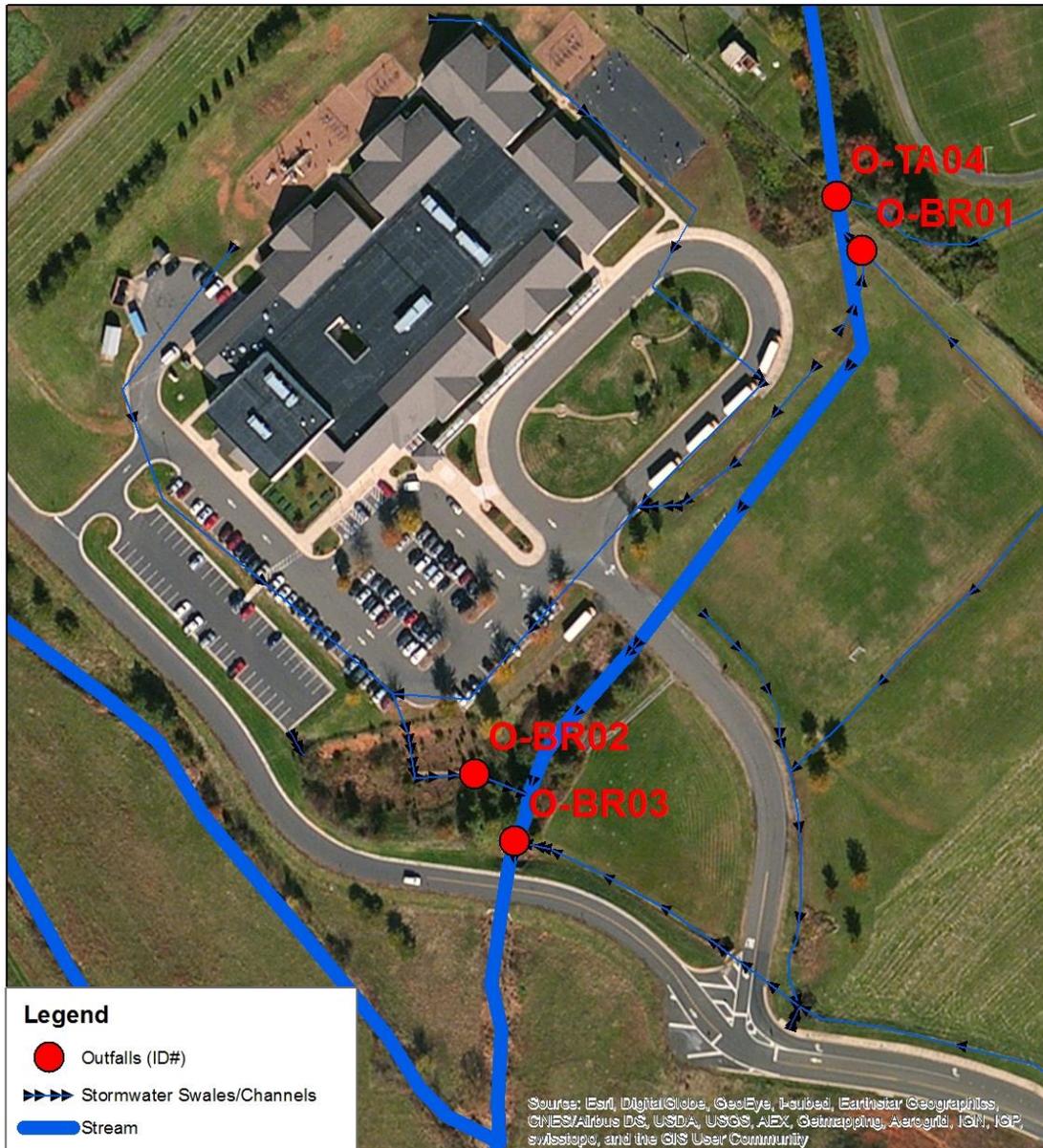


Note: This entire site drains to the Potomac River via Turkey Run, within the Cedar Run-Owl Run Watershed (PL37). There is an Impaired Water that is Not Supporting for Recreational Uses due to E. coli located 7.35 miles downstream from O-TA02. The total acreage of the Taylor Middle School MS4 watershed is 7.35 acres.



Produced by Fauquier Co. Community Development- Environmental Planning

MS4 Outfalls Near Brumfield Elementary School



Note: This entire site drains to the Potomac River via Turkey Run, within the Cedar Run-Owl Run Watershed (PL37). There is an Impaired Water that is Not Supporting for Recreational Uses due to E. coli located 6.16 miles downstream from O-BR03. The total acreage of the Brumfield Elementary School MS4 watershed is 18.85 acres.

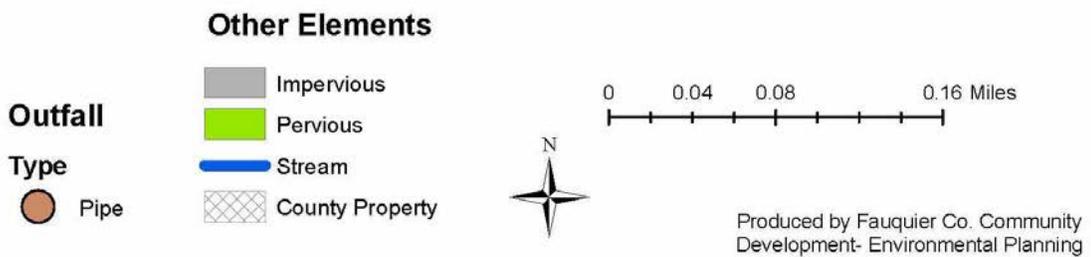
0 0.0125 0.025 0.05 Miles



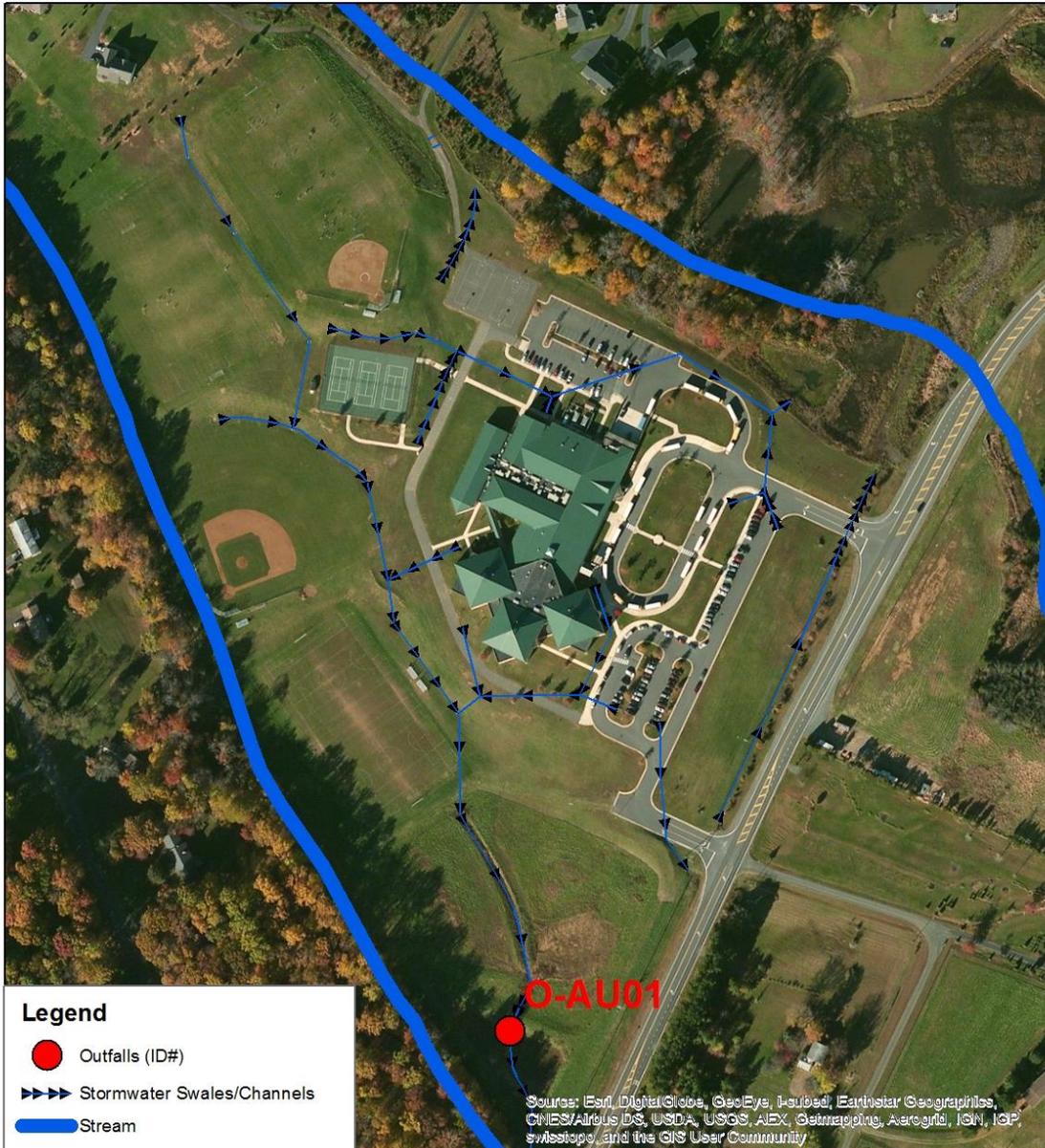
Produced by Fauquier Co. Community Development- Environmental Planning

6) The location of outfalls within Auburn Middle School

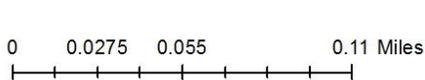
The Location of the 1 Outfall within Auburn Middle School



MS4 Outfalls Near Auburn Middle School



Note: This entire site drains to the Kettle Run, within the Kettle Run Watershed (PL33). There is an Impaired Water that is Not Supporting for Recreational Uses due to E. coli, located 1.83 miles downstream from O-AU01. The total acreage of the Auburn Middle School MS4 watershed is 26.65 acres.



Produced by Fauquier Co. Community Development- Environmental Planning

- Fauquier County's draft TMDL Action Plan supporting data (reductions needed table).

This table will be updated in the upcoming year as additional testing occurs.

FAUQUIER COUNTY MS-4 TMDL PLAN DATA-REDUCTIONS NEEDED FOR 2019-2023 MS-4 PERMIT (updated 5/27/2015)																					
County Facility	LOADING RATES						ACREAGES				EXISTING SOURCE LOADS				EXISTING SOURCE LOADS						
	Nitrogen- Impervious	Nitrogen- Pervious	Phosphorus- Impervious	Phosphorus- Pervious	TSS- Impervious	TSS- Pervious	Total Acres	Impervious Acres	Pervious Acres	Nitrogen- Impervious	Nitrogen- Pervious	Phosphorus- Impervious	Phosphorus- Pervious	Total	TSS- Impervious	TSS- Pervious	Total	Reduction Rate	Reduction Rate	Reduction Rate	
Calelets Branch [PL32]	16.86	10.07	1.62	0.41	1171.32	175.8	3.66	1.7	1.96	28.662	19.737	48.399	2.754	0.804	3.558	1,991.244	344.568	2,335.812			
Kettle Run [PL33]	16.86	10.07	1.62	0.41	1171.32	175.8	44.25	10.92	33.33	184.111	335.633	519.744	17.690	13.665	31.356	12,790.814	5,859.414	18,650.228			
Cedar Run-Will Run [PL35]	16.86	10.07	1.62	0.41	1171.32	175.8	15.07	1.51	13.56	25.499	136.549	162.008	2.446	5.580	8.006	1,768.699	2,383.848	4,152.541			
Cedar Run-OWI Run [PL36]	16.86	10.07	1.62	0.41	1171.32	175.8	30.84	11.85	18.99	199.791	191.229	391.020	19.197	7.786	26.983	13,880.142	3,338.442	17,218.584			
Rappahannock River-Great Run [RA07]	9.38	5.34	1.41	0.38	423.97	56.01	58.64	25.32	33.32	237.502	177.929	415.430	35.701	12.662	48.363	10,734.920	1,866.253	12,601.174			
Total							152.46	51.30	101.16	675.52	861.08	1,536.60	77.79	40.48	118.26	41,165.81	13,793.53	54,959.34			
TOTAL REDUCTIONS (lbs. per year) NEEDED FOR 40% REDUCTION																					
County Facility	Nitrogen- Impervious	Nitrogen- Pervious	Phosphorus- Impervious	Phosphorus- Pervious	TSS- Impervious	TSS- Pervious	Sum Nitrogen	Sum Phosphorus	Sum TSS												
Broad Run- Calelets Branch [PL32]	1.088	0.4704	0.136	0.01568	159.256	12.0736	1.56	0.15	171.330												
Kettle Run [PL33]	6.9888	7.9992	0.8736	0.26664	1022.9856	205.3128	14.99	1.14	1,228.298												
Cedar Run-Will Run [PL35]	0.9664	3.2544	0.1208	0.10848	141.4568	83.5296	4.22	0.23	234.986												
Cedar Run-OWI Run [PL36]	7.584	4.5576	0.948	0.15192	1110.108	116.9784	12.14	1.10	1,227.086												
Rappahannock River-Great Run [RA07]	8.1024	5.3312	2.0256	0.53312	858.8544	66.64	13.43	2.56	925.494												
Total							46.34	5.18	3,777.20												

Produced by D. Ek, Fauquier County, 5/27/2015

Certification Statement and Requirements

As required by 9VAC25-870-370 B, all reports required by state permits, and other information requested by the board shall be signed by a responsible official or by a duly authorized representative of that person. A responsible official is:

1. *For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy-making or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for state permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;*
2. *For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or*
3. *For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.*

Duly Authorized Representatives

A person is a duly authorized representative only if:

1. *The authorization is made in writing by a person described above;*
2. *The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or any individual occupying a named position; and*
3. *The written authorization is submitted to the department.*

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Fauquier County by: 
Responsible Official Signature

9-29-2016
Date

VAR040123 Fauquier County

Permit Number MS4 Name