



COUNTY OF FAUQUIER
OFFICE OF THE COUNTY ADMINISTRATOR

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CATHERINE M. HERITAGE
Deputy County Administrator

February 25, 2016

Daniel E. Michaelson, VPDES Permit Writer
Department of Environmental Quality
[Sent Electronically to: Daniel.Michaelson@deq.virginia.gov]

Dear VPDES Permit Writer Michaelson:

In response to Virginia Department of Environmental Quality's (DEQ) February 8, 2016 request for additional information on Fauquier County's Fiscal Year 2014 MS4 Annual Report, the following is provided:

- Section 1a: *For activities conducted during the current reporting period (2014-2015), provide the estimated number of people that were reached and the estimated percent of the target audience. Also, identify to which high priority water quality issue each activity addressed.*

As the Fiscal Year (FY) 2015 Annual Report stated, Fauquier County realized that the high priority water quality issues that were originally chosen were much too broad to be effective for MS4 purposes. Consequently, the intended target audience lacked the focus that the MS4 permit intended. The FY2015 report corrected this situation by modifying this high priority water quality section. However, summarizing specific County accomplishments for FY2015 under the older general topics proves problematic. Activities such as tree planting and riparian restoration may be broadly applied to the previous High Priority Topic #1 "*The Value and Importance of Stream Buffers*". Similarly, the County-wide "Fauquier County Water Summit" is related to the previous High Priority Topic #3 "*Wellhead Protection*". Most of the school environmental education outreach activities that John Marshall Soil and Water Conservation District (JMSWCD) staff conducted was directly related to the previous High Priority Topic #4 "*Increase Awareness and Foster a Personal Connection with Water*". While many of these activities were well attended (for instance the JMSWCD programs reached a total of 2,724 Fauquier County children), the intended audience of these overly broad topics was the County's entire population. The relative percent of the County's population (of these 2,724 students) is 4.2 percent (based on the County's 2010 population).

The FY2015 report replaced these broad County-wide topics with something more appropriate to the County's MS4 permit needs. Since the majority of the County's MS4 watersheds are located on County administered and managed land, there is no substantive public audience which to direct MS4 education and outreach activities. This is the reason the County now is directing their

MS4 public education outreach efforts to County employees and to employee training. As an example, Fauquier County Schools may decide to implement a Custodial Operations Plan to better manage how the school's custodians manage their waste water disposal. If so, then the intended audience of any custodial training would be the entire custodial staff. Consequently, these employee training focused efforts are purely operations based; therefore, the specifics will be incorporated into the County's three main MS4 operations departments: Fauquier County Schools, General Services, and Parks and Recreation.

- Section 1b: *For activities proposed for the next reporting period (2015-2016), provide the anticipated number of people to be reached and the anticipated percent of the target audience. Also, identify which high-priority water quality issue each activity addressed.*

Fauquier County Schools: In FY2016, Fauquier County Schools plans to complete a comprehensive plan for school maintenance activities. A portion of this plan will deal with custodial operations and the disposal of waste water. After the plan is finalized, they plan to provide MS4 training to each of their custodial staff.

Parks and Recreation: The Parks and Recreation Department will at the minimum provide MS4 orientation training during one of their monthly managers' meetings.

Community Development: The County's MS4 Coordinator is located in the Department of Community Development. For the FY2016 reporting period, the MS4 Coordinator will present a minimum of one general MS4 orientation training for each of the preceding three departments. The audience of each of these orientations will be determined by the respective department, commensurate with each department's MS4 plan and schedule.

- Section 2a: *Provide information on the number of outfalls screened and any follow-up activities that occurred as a result.*

Please see that attached document "Fauquier County MS4 Outfall Illicit Discharge Monitoring and Assessment".

- Section 3a: *Explicitly discuss plans to address high priority sites that require Stormwater Pollution and Prevention Plans (SWPPPs). It is assumed that shifting responsibility to individual departments will result in the identification of high priority sites and SWPPPs by those entities, but please provide more detail on this matter.*

Fauquier County did not fully meet this element during the FY2015 reporting year. The MS4 Coordinator will meet with the primary MS4 departments and the County Administrator and develop a more effective strategy for dealing with this issue in FY2016.

- Section 3c: *While acknowledging your presentation of existing nutrient management plans (NMPs) and summary of fertilizer areas, please summarize the total acreage within the MS4 requiring NMPs and what proportion of those facilities have existing NMPs.*

Please see the attached three tables: "Fauquier County's Compliance with MS4's Nutrient Management Plan Requirements;" "Status of Fauquier County's Nutrient Management Plans;" and "Fertilized Acres in Fauquier County's MS4 Area".

Sincerely,



Paul S. McCulla
County Administrator

Attachments (2)

cc: Kimberly Fogle, Director: Community Development
David Ek, Environmental Planner: Community Development
Janice Bourne, Assistant Superintendent: Fauquier County Schools
Greg Livesay, Facility Manager: Fauquier County Schools
Michael Kresse, Director: General Services
Wally Elgin, Maintenance Manager: General Services
Larry Miller, Director: Parks and Recreation
Edward Tucker, Director: Town of Warrenton Public Works

Fauquier County MS4 Outfall Illicit Discharge Monitoring and Assessment

There are 31 outfalls in Fauquier County's MS4 managed area. This includes 20 pipes, nine swales, one gully, and one concrete flume. The pipes range from a simple four-inch pipe draining the roof of a small trailer to a pipe draining impervious surfaces from several buildings. The swales range from deeply incised grass channels to minor swales that are hard to discern without careful observation during storm events.

Fauquier County's MS4 Coordinator has visited these 31 outfalls on multiple occasions during the reporting period in an effort to better address outfall monitoring needs and to better understand the specific characteristics of each site. The latest MS4 annual report states that the County's official outfall inspection and dry weather screening process will be implemented during the summer of 2016. Although this official outfall inspection and screening program has not been launched yet, the dozens of visits and unofficial inspections to each of these outfalls has provided the County with a thorough understanding of the potential illicit discharges of each site.

Most of our MS4 watersheds are less than ten acres in size and only have a few potential stormwater inputs. In several of these sites, all potential inputs are visible from one location; therefore, the source of any illicit discharge would be readily apparent. Due to the number of streams and wetlands on site, several of our MS4 stormwater conveyances receive groundwater discharge during periods when the water table is high. For instance, the concrete "flume" located at Fauquier High School (see figure 1) is a simple concrete-lined stormwater conveyance connecting a parking lot and street to the discharge point in a nearby stream. Surface water from this road and parking lot only flows in this flume during storm events. However, there is a small crack in the concrete, located one-half way down the flume that



allows groundwater from the high water table to seep into the concrete channel. It is clear that the source of this seepage is groundwater. Specific conductance and other water quality parameters present a signature that is characteristic of groundwater, and not characteristic of local surface water or other potential discharge sources.

Figure 1 Groundwater seep entering concrete-lined flume channel

Through the course of these unofficial outfall inspections, County staff understands the nature of these outfalls and the potential for illicit discharges. The County recently acquired field water monitoring and sampling equipment and supplies and is fully prepared to implement the formal monitoring program beginning in the summer of 2016 as scheduled.

Fauquier County's Compliance with MS4's Nutrient Management Plan Requirements			
Date	MS4 Due Date Thresholds	Required MS4 Goal	Acres Applicable to Fauquier County
May 6, 2014	Effective Date of MS4 Permit	n/a	0
May 6, 2016	24 months of Permit coverage	15% or greater (acres)	6.3 acres
May 6, 2017	36 months of Permit coverage	40% or greater (acres)	16.7 acres
May 6, 2018	48 months of Permit coverage	75% or greater (acres)	31.2 acres
May 6, 2019	60 months of Permit coverage	100% (acres)	41.6 acres

At the time of the MS4 reporting year ending June 30, 2015, Fauquier County had completed nutrient management plans for 5.5 acres of the MS4 permitted area. Therefore, Fauquier County is in full compliance with this MS4 requirement as it relates to this annual report/reporting period. This status is 0.8 acres shy of the upcoming May 6, 2016 goal; however, the status of Fauquier County's compliance with this threshold will be reported on the next annual reporting period ending June 30, 2016.

Status of Fauquier County's Nutrient Management Plans

Site	Managing Department	MS4 Acres	Total Acres that Fauquier County Fertilizes	Fertilized Acres in MS4 Area	Status of Nutrient Management Plan
Vint Hill Village Green	Fauquier County Parks and Recreation Department	21.26	25.2	25.2	Not Started
Kettle Run High School	Fauquier County School Department	0	10.3	0	Complete
Auburn Middle School	Fauquier County School Dept. (and Fauquier County General Services for newly-acquired parcels)	26.65	12.6	7.9	Not Started
P.B. Smith Elementary School	Fauquier County School Department	7.41	7.8	4.5	Not Started
C.M. Bradley Elementary School	Fauquier County School Department	7.66	7.6	3.9	Not Started
Brumfield Elementary School	Fauquier County School Department	18.85	0	0	n/a
Taylor Middle School	Fauquier County School Department	7.35	5.9	4.3	Not Started
Warrenton Community Center	Fauquier County Parks and Recreation Department	4.64	0	0	n/a
Fauquier High School	Fauquier County School Department	38.58	12.8	5.5	Completed
Liberty High School	Fauquier County School Department	0	5.7	0	Completed
Fauquier County & Public Health Dept. offices	Fauquier County General Services	8.97	0	0	n/a
Warrenton Middle School	Fauquier County School Department	9.76	6.6	3.2	Not Started
Total		153.10	78.5	41.6	
Summary:					
Acres: Needed (for MS4) = 41.6 Completed = 5.5 (13%)		Number of Plans: Needed (for MS4) = 7 # Completed = 1 (14%)		Acres: All areas treated = 78.5 Completed = 28.8 (37%)	
				Number of Plans: All areas treated = 9 # Completed = 3 (33%)	

Fertilized Acres in Fauquier County's MS4 Area

Site	Managing Department	MS4 Acres	Watershed	Total Acres that Fauquier County Fertilizes	Fertilized Acres in MS4 Area	Sum of Fertilized Acres in MS4 Area Per Watershed
Vint Hill Village Green (part 1)	Fauquier County Parks and Recreation Department	3.66	PL32 (Broad Run-Catletts Branch)	1.7	1.7	1.7
Vint Hill Village Green (part 2)	Fauquier County Parks and Recreation Department	17.60	PL33 (Kettle Run)	23.5	10.6	18.5
Auburn Middle School	Fauquier County School Dept. (and Fauquier County General Services for newly-acquired parcels, BMP, and outfall)	26.65		12.6	7.9	
P.B. Smith Elementary School	Fauquier County School Department	7.41	PL35 (Cedar Run-Mill Run)	7.8	4.5	8.4
C.M. Bradley Elementary School	Fauquier County School Department	7.66		7.6	3.9	
Brumfield Elementary School	Fauquier County School Department	18.85	PL36 (Cedar Run-Owl Run)	0	0	4.3
Taylor Middle School	Fauquier County School Department	7.35		5.9	4.3	
Warrenton Community Center	Fauquier County Parks and Recreation Department	4.64		0	0	
Fauquier High School	Fauquier County School Department	38.58	RA07 (Rappahannock River-Great Run)	12.8	5.5	8.7
Maintenance Shop	Fauquier County General Services	1.99		0	0	
Fauquier County & Public Health Dept. offices	Fauquier County General Services	8.97		0	0	
Warrenton Middle School	Fauquier County School Department	9.76		6.6	3.2	
Total		153.10		78.5	41.6	41.6