

MS4 ANNUAL REPORT FORM

For Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4s)

SWMP = Storm Water Management Program

TMDL = Total Maximum Daily Load

Please see instructions before completing this form. If you need more space than allowed, please attach a document.

IVI	Civi = Willimum Control Weasure	vv v = vve	st virgin	ııa		
1. 5	Small MS4 Operator Information					
1.	Annual report reporting period:					
2.	Name of MS4: West Virginia University	,		3.	Registration nur	mber: WVR030042
4.	Primary contact: Brian M. Lemme			5.	Title: Stormwater	
6.	Mailing address: 975 Rawley Ave, P.C	D. Box 6551				
7.	City: Morgantown, WV	8. Zip code: 26506		9.	County: Monogalia	1
10.	Telephone number: 293-8742					
11.	Email: Brian.Lemme@mail.wvu.edu					
II.	mpaired Waters Information					•
12.	Does the MS4 discharge into impa	ired water bodies?			■ Yes	□ No
13.	Please provide a description of spe					
	receiving waters and waters in wh	ich a TMDL has been developed.	(WV MS	4 20	09 General Perm	it, p. 25, #12)
Sto	rmwater discharges to the Mo	nongahela River, which is ir	npaired	d for	Fecal Coliforn	n and PCBs.
	DLs have been developed for					
	uminum, Iron, Manganese, pH		•			
If a	nd once any TMDLs are devel	oped they will be reviewed a	and imp	olem	ented to the n	naximum
	ant practicable.	•	•			
	•					
14.	Has a TMDL been developed since	your plan was approved?			☐ Yes	■ No
III. E	iscal Reporting					
15.	Include or attach a fiscal analysis of					
	analysis shall include only those exp	penditures by the locality seeking	g coverag	ge ur	der the WV MS4	2009 General
	Permit and not those for MCMs im	plemented by other entities. (WV	/ MS4 20	009 6	ieneral Permit, p	. 25, #13)
16.	Please provide total capital expend	litures for this reporting period.		\$		
17.	Please provide total operating expe	enditures for this reporting perio	d.	\$		
	100					

Abbreviations

BMP = Best Management Practice

IDDE = Illicit Discharge Detection and Elimination

18. Please provide a description of the coordination efforts with other MS4s, county governments agencies, colleges, universities, correctional facilities, prisons, and any other entities regarding implementation of the MCMs, including the status of any memoranda of understanding or oth executed between the permittee(s) and any other entity. (WV MS4 2009 General Permit, p. 24 WVU and MUB have been open about sharing information about mapping of the storm systems. WVU has also been sharing information with MUB on current construction projects and post construmanagement systems for all projects located with the the ubanizied area. WVU also complys with MOrdinance 929.20, specifically section about controlling peak flow runoff from a 2, 10 and 50 year 2. WVU has also been in contact with other MS4's state wide.	g the ner agreen 4, #9) uction stora IUB's stor	mwater mwater				
19. Please provide name and contact information for individual with overall program management and implementation responsibility, and if different, name and contact information of individuals responsible for each minimum control measure. Please attach a table of organization.						
Brian M. Lemme, 975 Rawley Lane, P.O.Box 6551, Morgantown, WV 26506 See attached spreadsheet. MS4 Outline (BMPs to be implemented since last reporting the street of the	ng period	d.)				
V. Changes to SWMP						
20. Did any of your activities, BMPs, or measurable goals as outlined in your SWMP change during	Yes	□ No				
the reporting period?21. Do you anticipate any planned activities, BMPs, or goals as outlined in your SWMP to change in the upcoming reporting period?	■ Yes	□ No				
22. If anything has changed, please indicate the MCM and performance measure and provide a brief description below, and attach detailed documentation of the changes, schedule of implementation, measurable goals, and overall effect on your program. (WV MS4 2009 General Permit, p. 24, #6 and #7)						
MCM #3 IDDE, BMP 3-1 MS4 Mapping. Milestone - Complete the outfall map for the remaining watersheds. WVU only falls into 3 The SWMP was developed to assume each receiving stream as a watershed.	watershe	eds.				
Several steps for implentanting the required BMPs of the SWMP have been identified to be unpractical. These original steps for each BMP were written by an outside firm and were very complex. It was also difficult to implement several areas of the SWMP based on the original dates provided and the shortened time frame once the SWMP was approved by WVDEP.						
Other areas of the SWMP have also been identified as being hard to implement from a Ur standpoint with limited enforcement capability.	niversity					
23. Is additional documentation attached?	■ Yes	□ No				

IV. Coordination Efforts and Organization

M	MCM 1: Public Education and Outreach (WV MS4 2009 General Permit, p. 1	5.6)	2.000			
Name and Address of the Owner, where	Did you complete all the proposed activities and performance meas		for this I	MCM for this		T
27.	reporting period?	uics	101 (1115 1	VICIVI IOI LIII3	☐ Yes	■ No
25.	Contact: Brian Lemme 26. Phone: (304) 293-8				2	
	formance Measure 1a: Program implementation					
27.	Were the proposed activities for developing a public education and program implemented?	outr	each	☐ Yes	Partially	□ No
28		rogr	avah me	looment acti	vities under	taken
20.	 List and briefly describe each of the public education and outreach program development activities undertaken during this reporting period. (WV MS4 2009 General Permit, p. 24, #1) 					
	attached narrative report for implementation of BMPs, mil orting period.	esto	ones an	d goals for	the currer	nt
	Did you achieve all the goals that you identified in your SWMP relate education and outreach program for this reporting period? (WV MS4 24, #3)				☐ Yes	■ No
	If not, please describe the progress you did make towards achieving solutions such as revised implementation schedules or revised measuchanges to your SWMP goals or schedule, please include them in Section (WV MS4 2009 General Permit, p. 24, #4)	urabl	le goals. I	f you are pro	S-1	ssible
See	attached narrative report for implementation of BMPs, mile	esto	nes and	goals for	the curren	t
eho	rting period.					

Performance Measure 1b: Evaluation of effectiveness of public education and outreach efforts							
31. Did you evaluate the effectiveness of the public education and outreach program?	Partially	☐ No					
32. How did you evaluate the effectiveness of the public education and outreach program in this r (WV MS4 2009 General Permit, p. 24, #2)	eporting pe	riod?					
See attached narrative report for implementation of BMPs, milestones and goals for reporting period.	the currer	nt					
33. Regardless of your answer to the previous question, have you identified new or better ways to evaluate the public's understanding of your program and water quality issues?	■ Yes	□ No					
34. If yes, please describe any changes you would like to consider to improve your evaluation of eff outreach.	ectiveness	of					
See attached narrative report for implementation of BMPs, milestones and goals for treporting period.	he curren	t					
Toporting portion.							

Perf	Performance Measure 1c: Documentation and tracking of public education and outreach efforts				
35.	Did you track and keep records of your outreach activities?	0	Yes	☐ Partially	□ No
36.	For print, radio, and television media activities, did you keep records that include i) a description of the content or theme; ii) the date of completion of the materials; iii) the date of release or distribution, and iv) the duration of air time or publication? (WV MS4 2009 General Permit, p. 24, #1)	•	Yes	□ No	□ NA
	Are your records available upon request?		Yes	□ No	□ NA
	For pamphlets, brochures, and other finite printed products, did you keep records that include: i) a description of the content or theme; ii) the date of completion of the materials; iii) the date of release or distribution; iv) the location or placement of the materials; and v) date of follow up visits to replenish or transition to the next outreach product? (WV MS4 2009 General Permit, p. 24, #1)	•	Yes	□ No	□ NA
	Please describe any additional or alternative documentation and tracking of public e activities you are implementing.	du	cation	and outreac	h
	J is currently in the process of reviewing all the past tracking systems to e general public.	b b	etter r	elay inforn	nation

VII.	MCM 2: Public Involvement and Participation (WV MS4 2009 General	Permit	, p. 6-7)			
40.	Did you complete all the proposed activities and performance meaning period?	sure	s for this MCM for this	☐ Yes	■ No	
41.	Contact: Brian Lemme	42.	Phone: (304) 293-8742			
		-				
Per	formance Measure 2a: Opportunities for ongoing public involvement	nt and	participation in the SW	/MP		
43.	Did you create, or are you in the process of creating, ongoing opportunity	rtuni	ties for the public to	5 v		
	participate in the development, implementation, and updating of	your S	SWMP?	■ Yes	□ No	
	44. Did you achieve all the goals that you identified in your SWMP related to creating and maintaining ongoing opportunities for public involvement and participation for this reporting period? (WV MS4 2009 General Permit, p. 24, #3) ☐ Yes ☐ No					
45.	45. If not, please describe the progress you did make towards achieving your goal(s), and any obstacles and possible solutions such as revised implementation schedules or revised measurable goals. If you are proposing any changes to your SWMP goals or schedule, please include them in Section V above. (WV MS4 2009 General Permit, p. 24, #4)					
100000	e attached narrative report for implementation of BMPs, morting period.	ilest	ones and goals for th	ne currer	nt	
See	List and briefly describe each of the activities undertaken during the opportunities for the public to participate in your SWMP. (WV MS4 attached narrative report for implementation of BMPs, morting period.	2009	General Permit, p. 24, ‡	#1)	t	
	Describe how you evaluated the effectiveness of your public partici hearings, requests for information on your SWMP, hotline activity, of (WV MS4 2009 General Permit, p. 24, #2)		n efforts (citizen attenda	ince at pul	olic	
This	has not been evaluated at this time. When events are he king effectiveness will be used at that time.	ld siç	gn sheets and other	material	s for	
ć	Describe the steps taken to ensure that public participation opportunational program maintenance activities in future reporting period opportunities. (WV MS4 2009 General Permit, p. 24, #4)	ds to e	ensure continued partici	pation		
joint e	I has partner with MUB in two past events, KIDS DAY and efforts it appears WVU can achieve better compliance and the future as opposents of Monongalia County and the City of Morgantown, we the county and the City of Morgantown, we can be considered as the county and the City of Morgantown, we can be considered as the county and the City of Morgantown, we can be considered as the county and the county and the county and the county are considered as the county and the county are considered as the consi	d ed osed	ucation through host hosting events with	ing priva MUB for	ite	

Performance Measure 2b: Communications with community, watershed, and environm	ental orga	nizations			
49. Did you establish a program for routine communications with community based watershed groups or other organizations?	☐ Yes	Partially	□ No		
50. Describe the steps taken to ensure that your programs for routine communications	with comr	nunity-base	d		
watershed groups or other organizations are ongoing, or any additional program ac	tivities tha	t you believ	e may		
be required to ensure continued communications. (WV MS4 2009 General Permit,	. 24, #4)				
Formal meetings have not officially been scheduled with local watershed g	oups. Ar	intern wit	h the		
office of Sustainability was helping with this task, but was unable to develo	a strong	relation a	at this		
time.					
51. Did you achieve all the goals that you identified in your SWMP related to creating		700 SERVICES			
and maintaining ongoing communications with community based watershed	☐ Yes	■ Partially	□ No		
groups or other organizations for this reporting period?	LI 163	E Farcially	Пио		
(WV MS4 2009 General Permit, p. 24, #3)					
52. If not, please describe the progress you did make towards achieving your goal(s), an	** Forest (1986)		ssible		
solutions such as revised implementation schedules or revised measurable goals. If changes to your SWMP goals or schedule, please include them in Section V above.	ou are pro	posing any			
(WV MS4 2009 General Permit, p. 24, #4)					
Timing with being a newly permitted facility due to an outside firm writing the	nronoo	ad tima fra	maa		
Titting with being a newly permitted facility due to an outside firm writing the	s propose	eu uine na	mes.		
D. C					
Performance Measure 2c: Public availability of SWMP and annual report			7		
53. Did you make your SWMP and annual report available to the public?	- 14 1 1] No		
54. If yes, please indicate the web address, or if a physical location, please indicate wher required for the public to access it.	e it is and t	ne process,	if any,		
The SWMP is available to the public on the EHS website.					
http://ehs.wvu.edu/environmental/water-management/storm-water					
The first and second annual reports have been made available at this time.					

VIII.	MCM 3: Illicit Discharge Detection and Elimination (WV MS4 2009 Ge	eneral Permit, p. 7-10)}		
55.	55. Did you complete all the proposed activities and performance measures for this MCM for reporting period?			■ Yes	□ No
56.	Contact: Brian Lemme	act: Brian Lemme 57. Phone: (304) 293-8742			
	ormance Measure 3a: MS4 map	-			
58.	Were your proposed activities for creating and annually updating y for the reporting period implemented?	our MS4 map	■ Yes [Partially	□ No
59.	List and briefly describe the activities undertaken to either develop (WV MS4 2009 General Permit, p. 24, #1)	or update your f	MS4 map.		5 3
	attached narrative report for implementation of BMPs, morting period.	ilestones and	goals for t	he currer	t

Performance Measure 3b: Illicit Discharge Detection and Elimination (IDDE) ordinance development	nent	
60. Has your municipality adopted an IDDE ordinance in accordance with the requirements of the WV MS4 2009 General Permit (Part II Section C.b.3.b)?	☐ Yes	■ No
61. If not, please describe the activities or progress made in adopting or updating an existing or an estimated date for adoption. (WV MS4 2009 General Permit, p. 24, #1)		
WVU does not have the authority to create and ordinance. The IDDE program will house for minor repairs and contracted out when needed. Education about IDDE value beneficial part of this program, to prevent spills before they occur or become a large	will be the r	nost
Performance Measures 3c and 3e: IDDE program implementation and assessment, and program	tracking	
62. Is your IDDE program fully implemented, including visual inspections based on a system of		1
prioritizing outfalls and procedures for characterizing discharges?	Yes	□ No
63. If no, please describe obstacles, if any, to implementation, and an estimate of when your proimplemented.	ogram will be	fully
64. Were all your measurable goals met for implementing and evaluating an IDDE program during this reporting period? (WV MS4 2009 General Permit, p. 24, #3)	☐ Yes	■ No
55. How many field assessments were conducted during the reporting period?	Арргох. 83	
66. How many illicit discharges were identified during the reporting period?	7	
67. How would you characterize the type of illicit discharges found (sewer cross connections, spil unaware residents, etc.)?		
Sewer cross connections, existing problem. Also, WVU identified an IDDE in MUB eported the problem to them, which found a local business had an illegal cross cor		ıd
8. How would you characterize the type of pollutants discovered in illicit discharges (oil and great chlorine, paints, etc.)? Name the top five pollutants discovered or uncovered by your IDDE proceed Coliform.		form,
9. How many corrective actions were taken to remove illicit discharges?	6	
D. How many enforcement actions were initiated to eliminate illicit discharges into the storm sewer system?	0	
1. Have you attached additional documentation to better identify the nature and extent of the program activities and accomplishments?	Yes	□ No

Performance Measure 3d: Public education on hazards of illegal discharges and improper disposal of waste							
72. Did you conduct any activities for educating the public on hazards of illegal discharges for this reporting period? (WV MS4 2009 General Permit, p. 24, #3)	Partially	□ No					
73. List and briefly describe each of the education and outreach activities undertaken during this re (WV MS4 2009 General Permit, p. 24, #1)	porting pe	riod.					
See attached narrative report for implementation of BMPs, milestones and goals for the reporting period.	he currer	ıt					
74. Were any of these activities included in the public education and outreach efforts described in MCM 1?	■ Yes	□ No					
75. How did you evaluate the effectiveness of the activities described in the list above? (WV MS4 2009 General Permit, p. 24, #2)							
76. Did you achieve all the goals that you identified in your SWMP related to educating the public							
	☐ Yes	■ No					
77. If not, please describe the progress you did make towards achieving your goal(s), and any obstacl solutions such as revised implementation schedules or revised measurable goals. If you are proportionages to your SWMP goals or schedule, please include them in Section V above. (WV MS4 2009 General Permit, p. 24, #4)	•	ssible					
See attached narrative report for implementation of BMPs, milestones and goals for the eporting period.	e current						

Performance Measure 3f: Training for municipal staff on identification, reporting, and elimination	o of illicit dis	charges
		72.15.24 Table 1
78. Have you developed a program to train municipal employees on illicit discharges?	Partially	
79. Did you conduct any municipal employee training during this reporting period?	☐ Yes	■ No
80. List and briefly describe the training activities conducted during the reporting period.		
(WV MS4 2009 General Permit, p. 24, #1)		
Not at this time.		
		- 1
81. How did you evaluate the effectiveness of the training activities? (WV MS4 2009 General Per	mit, p. 24, #2	2)
This has not been evaluated at this time. When events are held sign sheets and ot	ner materia	als for
tracking effectiveness will be used at that time.		
82. How many municipal employees were trained to identify and report illicit discharges?		
(WV MS4 2009 General Permit, p. 24, #2)		
0		
PO DIA LI UNA DIALETTI IN CUMADILITATI IN COMPANIA		Γ
83. Did you achieve all the goals that you identified in your SWMP related to training municipal		
employees on IDDE procedures for this reporting period?	☐ Yes	■ No
(WV MS4 2009 General Permit, p. 24, #3)		
84. If not, please describe the progress you did make towards achieving your goal(s), and any obs		ossible
solutions such as revised implementation schedules or revised measurable goals. If you are pr	oposing any	
changes to your SWMP goals or schedule, please include them in Section V above.		
(WV MS4 2009 General Permit, p. 24, #4)		
No formal staff other than the field inspector (Brian Lemme) has received training at	this time.	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

IX.	MCM 4: Construction Site Runoff Control (WV MS4 2009 General Permit, p. 10-12)			
_	Did you complete all proposed activities and performance measures for this MCM	for this	E v	ELV
	reporting period?		☐ Yes	■ No
86.	Contact: Brian Lemme 87. Phone: (304) 293-874	ļ2	
1	formance Measures 4a and 4b: Develop and implement an ordinance to address sto	rmwater r	unoff from	
_	struction sites one acre or greater		1	T
88.	Has your municipality adopted a construction site runoff control ordinance in accordance with the requirements of the WV MS4 2009 General Permit (Part II	☐ Yes	■ Partially	□ No
	Section C.b.4.a)?	L les	E Partially	L NO
89.	If a program ordinance has not been adopted, have the proposed activities for			
	developing and implementing an ordinance to address stormwater runoff from	☐ Yes	■ Partially	□ No
	construction sites been implemented?	_		_
90.	Please indicate the anticipated ordinance adoption schedule. (WV MS4 2009 Gener	al Permit,	p. 24, #1)	
Fol	ow WVDEP standards. EHS is planning to develop a internal permitting	process	for projec	ts less
tha	n 1 acre in size.			
				1
91.	Has your construction site ordinance been reviewed and/or updated to include	☐ Yes	Partially	□ No
02	any new criteria during the reporting period? Is your construction site program being fully implemented to include provisions			
92.	for: i) plan review, ii) routine site inspections, iii) enforcement, and iv) record	П V	E Donatallo	[] N-
	keeping and reporting?	Yes	Partially	☐ No
03	Please indicate the number of plan approvals during the reporting period.		6	
	Please indicate the number of plan approvals during the reporting period. Please indicate the number of construction site inspections during the reporting period.	riod	139	
95. Please indicate the number of enforcement actions during the reporting period.				
55.	document).	attacii	0	
96.	Are enforcement records maintained and available upon request?	Yes	☐ Partially	■ No
	Is there adequate funding to fulfill the program implementation requirements	п.,		
	required by the WV MS4 2009 General Permit?	☐ Yes	☐ Partially	■ No
98.	Briefly list and describe any activities outlined in your SWMP completed during the			
	construction site operator and/or permittee site inspector training. (WV MS4 2009 0	General Per	rmit, p. 24, #	‡1)
See	attached narrative report for implementation of BMPs, milestones and	goals for	the curren	t
repo	orting period.			
00	Did you achieve all the goals that you identified in your SWMP related to developing		T T	
	implementation and assessment of a construction site runoff control program for thi		□ Vee	E No
	reporting period? (WV MS4 2009 General Permit, p. 24, #3)	3	Yes	■ No
	If not, please describe the progress you did make towards achieving your goal(s), and	any obsta	cles and no	ssible
	solutions such as revised implementation schedules or revised measurable goals. If y	A DE MORES		
	changes to your SWMP goals or schedule, please include them in Section V above.	F	F	
	(WV MS4 2009 General Permit, p. 24, #4)			
	tional meetings and coordination with MUB and WVU staff from Design	and Con	struction o	office.

X. MCM 5: Controlling Runoff from New Development and Redevelopment (WV MS4 2009 General Perr	mit, p. 12-19)		
101. Did you complete all proposed activities and performance measures for this MCM for this reporting period?		■ No	
102. Contact; Brian Lemme 103. Phone: (304) 293-8742		70 10	
Performance Measure 5a: Develop, implement, and enforce a program to protect water resources to stormwater discharges from regulated new and redevelopment projects	oy addressi	ing	
104. Has your municipality adopted a stormwater management ordinance in	Partially	□ No	
105. If your ordinance has not been adopted, please describe the progress made towards final ordinance adoption during this reporting period, and expected date of final adoption. (WV MS4 2009 General Permit, p. 24, #1) WVU does not have the authority to create and ordinance. WVU will follow the requirements of the MS4 for capturing the first 1 inch of runoff and managing a 50yr 24-hr storm by MUB.			
	T		
106. Does your (proposed) ordinance include language incorporating the development incentives described in the WV MS4 2009 General Permit (Part II Section C.5.a.ii.A.3)?	☐ Yes	■ No	
107. Does your (proposed) ordinance include language incorporating the off-site mitigation or fee- in lieu alternatives to on-site BMP implementation as described in the WV MS4 2009 General Permit (Part II Section C.5.a.ii.A.4)?	☐ Yes	■ No	
108. Have you developed a process for reviewing and updating your ordinance and program implementation to address the adequacy of provisions for: i) requiring runoff volume reduction on new and redevelopment sites, ii) plan review, iii) BMP construction and maintenance inspections, iv) enforcement, v) inventory and tracking, and vi) record keeping and reporting?	■ Yes	□ No	
109. How many projects were reviewed during the reporting period?	6		
110. What types of projects were reviewed (residential, commercial, industrial, etc.)? (WV MS4 2009 General Permit, p. 18, #2)Commercial			
111. Provide a summary of the number and types of stormwater BMPs approved in new and redevelopment projects during the reporting period. Please list the BMPs according to the BMP specification number from the WV Stormwater Management Manual (2012). (WV MS4 2009 General Permit, p. 18, #3) BioCells and green roof and Law center BioCells at CPASS/SH WU Hospital has adopted W/U's SWMP for the first 1" with 4 new projects AC parking area will have 3 new BioCells College Park Apts will have an underground system with pretreatment devices. University Park Apts will have several BioCells and an underground systems will have a BioCell Lew AERB will have bioCells Lew AERB will have bioCells			

	0.00-		
112. Provide a summary of the number and type of projects that qualified for each of the development incentives described in the WV MS4 2009 General Permit (Part II Section C.5.a.ii.A.3) during the reporting period. Please indicate if you have attached additional documentation. (WV MS4 2009 General Permit, p. 18, #3)			
None			
		6514	
113. Provide a summary of the number of projects that qualified for any offsite mitigation or payment described in the WV MS4 2009 General Permit (Part II, Section C.b.5.a.ii.A.4) during the reporting indicate if you attach additional documentation. (WV MS4 2009 General Permit, p. 18, #3)			
None			
114. How many maintenance agreements were approved during the reporting period? (WV MS4 2009 General Permit, p. 18, #4)	0		
115. Were any maintenance agreements recorded at the county courthouse?	☐ Yes	■ No	
contracted agents (construction as-built, ongoing operation and maintenance audits, complaint Include (or attach) a summary of: i) the type and number of BMPs requiring maintenance or representations to the compliance, and iii) the number of enforcement actions taken. (WV MS4 2009 General Permit, p. 18, #5) MCM 5, BMP 5-5, this does not occur until 30 months after approval.			
(WV MS4 2009 General Permit, p. 24, #3)	■ Yes	□ No	
118. If not, please describe the progress you did make towards achieving your goal(s), and any obstacles and possible solutions such as revised implementation schedules or revised measurable goals. If you are proposing any changes to your SWMP goals or schedule, please include them in Section V above. (WV MS4 2009 General Permit, p. 24, #4)			
See attached narrative report for implementation of BMPs, milestones and goals for the reporting period.	e curren	t	

			AND 00 10 10 10 10 10 10 10 10 10 10 10 10	
Performance Measure 5b: Long-term				
119. Does a local ordinance or equivale	ent document incorporate the watershed			
protection elements described in	WV MS4 2009 General Permit (Part II Section	☐ Yes	Partially	☐ No
C.5.a.i.A)?				
	rmittee's legal authority addresses the following w	ratershed p	protection	
elements: (WV MS4 2009 General	Permit, p. 18, #1)			
121. Minimize impervious cover.	Looking into using permeable pavers, and pavements.			
122. Preserve, protect, create, and				
restore ecologically sensitive				
areas.				
123. Implement practices that	Planting of trees within parking lot area. C	onturing	the first 1	inoh
prevent or reduce thermal	of runoff.	apturing	the mst i	men
impacts to streams.	of furion.			
124. Seek to avoid or prevent	Capturing the first 1 inch of runoff.			
hydromodification of water	Capturing the first 1 inch of funoil.			
bodies caused by development.	•			
125. Minimize impacts to existing				
vegetation (especially trees).	Several tress are be removed to allow for construction, but will be re	placed during	final land scapi	ng of area.
126. Minimize impacts to native				
undisturbed soils.				
127 If the watershed protection eleme	ate have not yet been incorporated into a planning		+ ar ardina	
	nts have not yet been incorporated into a planning sken to incorporate these elements. (WV MS4 200			
please describe the actions to be d	sken to incorporate these elements. (www wish 200	9 General	Permit, p. 2	4, #1)
THE RESERVE OF THE PROPERTY OF				
Performance Measure 5c: Street and parking design assessments				
128. Were the proposed activities for as	sessing the current street design guidelines and pa	rking		_
requirements implemented?		·	■ Yes	☐ No
129. If this is your third-year report, plea	se attach your report assessing the current street	and parkin	ig design	
requirements, and recommendations and proposed schedules for incorporating policies and standards to				
maximize vegetation and minimize impervious cover where possible. (WV MS4 2009 General Permit, p. 24, #8)				

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141. Were these problems corrected? (WV MS4 2009 General Permit, p. 24, #1)					
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	141. Were these problems corrected? (WV MS4 2009 General Permit, p. 2	24, #1)		Yes	■ No

142. Did you achieve all the goals that you identified in your SWMP related to developing a		- V	E No
pollution prevention and good housekeeping program for municipal operations for reporting period? (WV MS4 2009 General Permit, p. 24, #3)	tnis	Yes	■ No
143. If not, please describe the progress you did make towards achieving your goal(s), a	nd any obsta	cles and p	ossible
solutions such as revised implementation schedules or revised measurable goals. If			
changes to your SWMP goals or schedule, please include them in Section V above.			
(WV MS4 2009 General Permit, p. 24, #4)			
See attached narrative report for implementation of BMPs, milestones and	goals for	he curre	nt
reporting period.			
Performance Measure 6c: Municipal employee good housekeeping training			
144. Were the proposed activities for developing a pollution prevention and good			
housekeeping training program for municipal employees implemented as	☐ Yes [Partially	☐ No
described in the WV MS4 2009 General Permit (Part II, Section C.b.6.c)?			
145. Were the proposed activities for implementing a pollution prevention and good		_	_
housekeeping training program for municipal employees implemented as	☐ Yes ☐	Partially	☐ No
described in the WV MS4 2009 General Permit (Part II, Section C.b.6.c)?			
146. Did municipal employees receive training in accordance with the guidelines described in the WV MS4 2009 General Permit (Part II, Section C.b.6.c)?	☐ Yes ☐	Partially	□ No
147. How many employees received training during the reporting period?			
(WV MS4 2009 General Permit, p. 24, #1)		0	
148. Are you maintaining records of all municipal training activities (including training ago	endas,	П у	- N-
learning objectives, instructor qualifications, sign in sheets, etc.)?		Yes	■ No
149. Explain how the effectiveness of the training activities was evaluated (number of en			r
certified in specific good housekeeping skills, measurable improvements in cost or p		of facility	
maintenance activities, or as outlined in your SWMP). (WV MS4 2009 General Permi	t, p. 24, #2)		
Unknown at this time.			
150. Did you achieve all the goals that you identified in your SWMP related to training mu	inicipal		
employees on pollution prevention and good housekeeping for this reporting period	65	☐ Yes	■ No
(WV MS4 2009 General Permit, p. 24, #3)	*		
151. If not, please describe the progress you did make towards achieving your goal(s), and	any obstac	les and po	ssible
solutions such as revised implementation schedules or revised measurable goals. If you are proposing any			
changes to your SWMP goals or schedule, please include them in Section V above. (WV MS4 2009 General Permit, p. 24, #4)			
See attached narrative report for implementation of BMPs, milestones and goals for the current			
reporting period.			
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BMP 1-7 Transportation and Parking. Distribute information about vehicle maintenance and impervious cover impacts on water resources through West Virginia University (WVU)'s Parking Management Office's permit applications and parking lot maps.

- 1. Milestone Conduct an inventory, analysis, and selection of the communications tools available through Parking Management to distribute stormwater management concepts to contractors, faculty, staff, students, and campus visitors.
 Communication tools through Parking Management Office (PM) can be used to distribute stomwater information to the general public when new parking permits are sent out. This part of implementing the Best Management Practice (BMP) was achieved by simply looking at what communication tools are available for education. This year the parking permits were mailed with a fold out pamphlet. After review of the material, a brief section about stormwater could be added if the parking permits will be mailed using the same format next year. The director of parking will be contacted to determine if a section can be added to the informational packet. This will be fully addressed in the new SWMP.
- 2. Milestone Conduct the development of those communications tools determined to be the most effective at communicating stormwater management concepts, especially vehicle maintenance and impervious cover impacts on water resources. This year the parking permits were mailed with a fold out pamphlet. After reviewing the pamphlet material, a brief section about stormwater could be added if the parking permits will be mailed using the same format next year. The director of PM will be contacted to determine if a section can be added to the informational packet. This will be fully addressed in the new SWMP. Additional topics and informational packets have been developed, but the process for proper and effective distribution is still being worked on.
- 3. Distribute permit applications, parking lot maps, and other Parking Management publications that include stormwater management concepts.

 The requirements of this section for implementation of the BMP do not apply to this office. West Virginia Environmental Health and Safety (EHS) is not tasked with distributing permits applications, parking maps, or other publications. However, topics about stormwater and where to direct the public for more information will be provided within the print media. All materials will be handed out by PM office as seen fit.

This BMP was partly achieved and will be reapplied during next permit cycle.

BMP1-8 **Vendor Education**. Raise the level of awareness of stormwater management concepts for vendors and contractors that work on WVU's Morgantown campuses.

1. Milestone - Determine the stormwater management concepts and establish standards that vendors and contractors should understand and implement based on their job functions.

The concepts for the vendor, as for any other group, are similar. After much thought and review, it appears the best approach would be to create a single page information sheet that can be distributed to multiple groups. All the previously developed educational

material on stormwater management and pollution prevention will be reviewed and combined into a simple single use document.

This existing BMP will be restricted and combined with similar topics on stormwater education next permit cycle.

2. Create a list of the educational materials and training sessions contractors must complete before working on WVU campus.

It is unmanageable to track a list of contractors and vendors that conduct business at WVU. WVU does not have a central tracking system or office to handle this task. It is more reasonable to develop a section within the Terms and Conditions (T&Cs) contracts for venders and contractor, which briefly educates about stormwater management and directs them to resources if additional education or information is needed. These T&Cs have been identified and reviewed with potential areas to add material on stormwater management. However, it may take several months to develop, present and have the required changes to the T&Cs made.

This BMP was partly achieved and will be reapplied during next permit cycle.

BMP 1-9 Vendor Contracts. Prepare standards to include language in contracts and/or the procurement process that describe vendor and contractor stormwater management responsibilities that need to be adhered to while working on campus.

- 1. Milestone Conduct research of existing contract templates to determine how best to apply stormwater management responsibilities to vendors and contractors. See summary above for BMP 1-8.
- 2. Develop language for contracts and/or the procurement process for proper management of stormwater and sources of pollutants and work with WVU Purchasing and Procurement to implement use of the terms.

 See summary above for BMP 1-8.

This BMP and all subparts are in line with the previous BMP 1-8. Both BMPs (1-8 and 1-9) will be combined and implemented during the next permit cycle.

BMP 2-6 Stream Sampling. Partner with existing stream sampling programs to monitor water quality.

1. Post results of water quality monitoring on the WVU SWMP website.

The original BMP required coordination with WVU faculty that monitor water quality. Faculty was contacted as required with the previous steps to implement this BMP, but no return info was provided. It would be better for personnel to conduct background sampling of the receiving streams located within the MS4 boundary. This data could then be posted to the EHS website/stormwater section. The data would also provide a comparison and baseline for Total Mass Daily Loads (TMDLs) that are developed for the WVU area. This BMP would have been more effective if it required the posting of sample results from the facilities outfalls. This data will be posted along with any new data in the next permit cycle.

This BMP was partially achieved through the previous requirements. The final step of posting results for stream sampling was not achieved due to having no data to post.

BMP 2-7 Stormwater Involvement and Participation Information. Provide and distribute printed educational material (see BMP 1-3).

Milestone – Create information for distribution at EHS display.
 Multiple forms of educational material, PowerPoints, handouts and other media have been developed and distributed during several events. The most recent event was the 1st Water Festival in Morgantown, WV.

This BMP was achieved through the previous requirements and in conjunction with several other BMPs over the first few years of the SWMP.

BMP 2-8 BMP Tour. Develop a tour of campus stormwater management BMPs and demonstration projects (i.eg green roof, rain garden, underground retention, vegetated basin, riparian buffer) (BMP 1-6).

- Milestone Develop an inventory of all potential BMP tour sites on campus.
 All existing BMPs have been identified, that could be used for a stormwater tour. The list of facilities is continually growing with the addition of several new buildings and other developments.
- 2. Milestone Select the sites to include in the stormwater tour, create a map, and develop a script of talking points.
 Several sites have been selected to include in the tour. After reviewing this BMP, it would appear best to develop two different tours: 1. Downtown Campus 2. Evansdale Campus. This BMP will be revisited and finalized during the next permit cycle to develop a better product for communicating stormwater management topics.
- 3. Milestone Promote the tour by posting the map on the WVU stormwater website and through appropriate academic courses.

A beta test tour has been developed and used during several guest lectures with different engineering classes. The first tour included visiting a BioRetention Cell (BioCell), viewing a construction site with E&S controls, a regional stormwater detention pond, and a BioRentention Swale. This BMP also works in conjunction with BMP1-6 (Interpretative Signage). Quotes have been received for creating and posting information signs at the selected BMPs and all BMPs that will not be on the tour. This will work in conjunction with creating an identification systems for the location of each BMP and will also allow for tracking of inspections and maintenance for the BMP.

This BMP was partly achieved and will be reapplied during next permit cycle and combined with several other existing BMPs to create a better educational device.

BMP 3-1 MS4 Mapping. Create and maintain a map of the MS4 that includes all outfalls, receiving waters, structural BMPs, stormwater conveyances, combined sewers, and geographic areas that discharge to the MS4 (§3.a).

1. Milestone - Complete the outfall map for the remaining watersheds.

This BMP was originally written incorrectly. This requirement was met when the third waster shed was mapped. Two maps have been developed for verification purposes at this time for the Evansdale Campus and Downtown Campus. The maps will be updated annually and after any new building, parking lot or other construction is completed that affects the stormwater system.

This BMP was achieved.

BMP 4-2 Develop Procedures. Develop Construction Site Run-off Control procedures for erosion and sediment control plan review, site inspection, and enforcement at construction sites with land disturbance activities ($\S4.b.\ i-iii,\ v$).

1. Complete the Construction Site Runoff Control Program procedures, including the creation of a checklist with necessary steps to take a project from initial concept through to site stabilization.

At this time an official program has not been developed in writing at this time. The main driving force for ensuring compliance of this BMP is governed by the enforcements factors of the NPDES general permit for construction activities. After review of the SWMP, it is foreseen that development of an internal EHS permitting process for on campus earthwork of less than 1 acre is necessary. A full document outlining all the necessary steps for an effective program will be developed during the next permit cycle.

2. Incorporate elements of the Construction Site Run-off Control Program into the Design Guidelines and Construction Standards where applicable.

Elements have been added to the Guidelines to direct any earthwork being performed that is greater than 1 acre. New elements will be amended to the guidelines after the development and approval of the new internal permitting system for small earthwork projects.

3. Implement completed procedures.

This is currently being implemented for large earthwork projects that require an NPDES permit. All other procedures will be developed and implemented during the next permit cycle.

This BMP was partly achieved and will be reapplied during next permit cycle.

BMP 4-3 Train Staff. Train staff on site review, inspection, and enforcement procedures (§4.b.iv) (BMP 1-2).

1. Complete training of staff that will perform review, inspections, and enforcement at construction sites.

Currently there is no stormwater group within the EHS department or support staff to train for these actions. Site review and inspection is handled by the MS4 coordinator. Also WVU does not have any enforcement ability at this time. If the stormwater department would grow, proper training would be provided to staff preforming these duties. Current goals for next permit cycle include a combination of all required training over several MCMs to be provided to employee, staff, students, vendors, and contractors. This will also be in line with requirement for BMPs with MCM1.

This BMP was achieved based on the requirements that the person conducting the actions required was previously well trained in stormwater.

BMP 4-4 Contractor Education. Provide educational and training measures for construction site operators (§4.a.ix and 4.b.iv) (BMP 1-8).

Create and provide a list of the educational materials and training sessions
contractors must complete on their own before working on WVU campus.
This will be addressed next permit cycle as previous stated above in BMP 4-3, along with
other training requirements of the permit. However, specific educational materials have
been developed (i.e. concrete washout) and have be relayed to contractor and vendors on
a need to know basis.

This BMP was partly achieved and will be reapplied during next permit cycle.

BMP 4-5 Contracts. Prepare language for the procurement process that describe contractor stormwater management responsibilities. (BMP 1-9).

1. Develop language that specifies contractor responsibilities for proper management of construction site runoff. Within the Project Scope, contractors will be required to provide education on Construction Site Run-off Control to on-site employees. This BMP will be combined and redeveloped next permit cycle as previously stated in this report for BMPs 1-8 and 1-9.

This BMP was partly achieved and will be reapplied during next permit cycle.

BMP 5-3 Design Guidelines. Develop design guidelines and construction standards for new development and redevelopment, including the requirement to develop maintenance plans for new BMPs (§5.a.ii.A.1 and C).

 Milestone - Identify sections of the Design Guidelines and Construction Standards and other planning documents that address Post-Construction Stormwater Management. The Design Guidelines and Construction Standards were updated within the first year of the permit. Changes included capture of the first 1 inch of runoff and showing how peak flow runoff reduction will meet MUB standards of a 2, 10, and 50 year 24 hour storm. This is mainly being achieved through use of LID green infrastructure (BioCells, BioSwale, Rain gardens, Green roofs). Where green infrastructure can't be used, traditional detentions system with pretreatment devices are being implemented to remove pollutants prior to entering the system.

This BMP was achieved.

BMP 5-5 BMP Operation and Maintenance Programs. Develop operations and maintenance plans for each of the structural BMPs on campus.

1. Milestone - Identify the structural stormwater BMPs on campus.

All existing BMPs from the first SWMP have been identified. Within the past 3 years, approximately 15 or more new BMPs have installed at various properties owned or leased by WVU in conjunction with several new projects. The current list of BMPs will be reviewed and updated as needed once any new BMPs are installed and functional. This action will take place during the next permit cycle.

2. Milestone – Develop a schedule to develop an operation and maintenance program for each structural stormwater BMP on campus.

O&M programs have not yet fully been developed for each BMP at this time. The addition of 15 new BMPs brings the total to 30+ facilities. There also are several issues with the newly installed BMPs that must be corrected prior to developing an effective O&M program to preserve the longevity and functionality of the BMP.

This BMP was partly achieved and will be reapplied during next permit cycle.

BMP 5-6 Tracking and Inspections. Establish a BMP tracking and inspection program (§5.a.ii.D and E) (BMP 3-3 and BMP 6-3).

 Create a database to track and store information on source control practices, treatment control practices, photographs, maintenance requirements, and inspection activities.

This activity and BMP is very similar to BMP 5-5 and will be combined to eliminate overlap of specific requirements while still meeting all the needed implementation items.

This BMP will be reevaluated and reapplied during next permit cycle.

BMP 5-7 Street Design. Assess street design guidelines and parking requirements (§5.b).

1. Milestone - Identify all design guidelines and planning documents that describe standards for streets and parking areas.

The only documents related to this item are in reference to the type of asphalt used, thickness, and line painting for parking space widths, etc. These standards have little weight in managing stormwater runoff. This BMP should have been combined with BMP 5-3. WVU has taken a protective approach for all new or redevelopment projects over 3000 SF to manage and treat the first 1 inch of runoff. By using a single standard, it eliminates some confusion when a project is being designed. Having one blanket standard is better than 2 or 3 based on the type of project you are completing.

This BMP will be reevaluated and reapplied to better fit the needs of a University rather than a City during next permit cycle.

BMP 5-8 Staff Training. Train staff on Post Construction Stormwater Management concepts and Plan of Action (BMP 1-2).

1. Milestone - Identify the staff and their roles participating in the Post-Construction Stormwater Management Program.

This BMP is in line with MCM1 education. The main role of the SWMP is handled by the WVU EHS Stormwater Specialist.

2. Milestone - Develop training programs for the different staff functions in the Post-Construction Stormwater Management Program.

Again, this BMP is in line with education.

This BMP was achieved based on the requirements that the person conducting the actions required was previously well trained in stormwater. This BMP will be reevaluated and reapplied during next permit cycle.

Summary

Several key factors must be taken into account with the SWMP for WVU. The general permit cycle was from 2009-2014. WVU was a newly permitted MS4 and required to submit a Notice of Intent (NOI) in 2009. Once approved, WVU had 1 year to submit and have approved a SWMP. The SWMP outlined specific milestones and goals to achieve compliance with the NPDES general permit and SWMP. WVU's SWMP was approved and effective September 29, 2011. Several goals and milestone were achieved prior to the SWMP being approved. WVU has implemented to the maximum extent practical the first 3 years of the SWMP and continues to review and implement the current SWMP. With limited resources to developed specific details for each BMP, it is currently more beneficial to focus on the overall implementation of the SWMP and determine which BMP areas are strong and weak. The new general permit has already been issued and a new NOI filed with West Virginia Department of Environmental Protection (WVDEP). Once approved, WVU will rewrite the SWMP using several BMPs from the previous plan to better develop a more reasonable and practical SWMP for the University.