



Marshall University

MS4 Annual Report 2020

Permit WV R030043



Brandi Jacobs-Jones
Sr. VP of Operations
One John Marshall Drive
Huntington, WV 25755



Date



Marshall University

Monitoring Results

Date	Permit Requirements	Analyses	Results (mg/L)	Method	Reporting Results (mg/L)
Spring 2020*	Total Nitrogen	nitrate		E300.0	
		nitrite		E300.0	
		TKN		E351.2	
Spring 2020*	Total Phosphorous	Phosphorous		SM4500-P	

* Incomplete data - No sampling took place in the spring due to Covid-19 lockdown and restrictions. A full account of sampling and other deficiencies due to the Covid-19 lockdown is included with this report.

Date	Permit Requirements	Analyses	Results (mg/L)	Method	Reporting Results (mg/L)
10/19/20	Total Nitrogen	nitrate	.85	E300.0	9.08
		nitrite	.13	E300.0	
		TKN	8.1	SM4500Norg(B+C)-11 +SM4500NH3-C-11	
10/19/20	Total Phosphorous	Phosphorous	.77	LACHAT 10-115-01-F	.77

Marshall University

FY 2020 Recycling Efforts

Marshall University Sustainability Department

Productivity Report for FY 2020

This report provides a general outline of the progress and accomplishments of the MU Sustainability Department during the FY 2020.

FY 2020 (7/1/19 – 6/30/20)	Tons/mixed recyclables
Mixed recyclables (office paper, newspaper, plastic bottles, aseptic containers, cardboard)	447.56 tons



STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MANAGEMENT

MS4 ANNUAL REPORT FORM

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

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

Abbreviations

BMP = Best Management Practice

IDDE = Illicit Discharge Detection and Elimination

MCM = Minimum Control Measure

SWMP = Storm Water Management Program

TMDL = Total Maximum Daily Load

WV = West Virginia

I. Small MS4 Operator Information

1. Annual report reporting period: September 30, 2019 to September 30, 2020

2. Name of MS4: Marshall University

3. Registration number: WV R030043

4. Primary contact: Mark Buchanan

5. Title: Environmental Specialist

6. Mailing address: One John Marshall Drive

7. City: Huntington

8. Zip code: 25755

9. County: Cabell

10. Telephone number: 304-696-3461

11. Email: Buchanan7@marshall.edu

II. Impaired Waters Information

12. Does the MS4 discharge into impaired water bodies?

Yes

No

13. Please provide a description of specific BMPs that were implemented to reduce pollutants of concern in impaired receiving waters and waters in which a TMDL has been developed. (WV MS4 2014 General Permit-p. 46, #12)

14. Has a TMDL been developed since your plan was approved?

Yes

No

III. Fiscal Reporting

15. Include or attach a fiscal analysis of capital and operating expenditures to implement the MCMs. The fiscal analysis shall include only those expenditures by the locality seeking coverage under the WV MS4 2014 General Permit and not those for MCMs implemented by other entities. (WV MS4 2014 General Permit, p. 46, #13)

16. Please provide total capital expenditures for this reporting period.

\$ 1160.00

17. Please provide total operating expenditures for this reporting period.

\$ \$61,365.64

IV. Coordination Efforts and Organization

18. Please provide a description of the coordination efforts with other MS4s, county governments, transportation agencies, colleges, universities, correctional facilities, prisons, and any other entities regarding the implementation of the MCMs, including the status of any memoranda of understanding or other agreements executed between the permittee(s) and any other entity. (WV MS4 2014 General Permit, p. 46, #9)

During the 2019-2020 program year, many of the typical joint annual activities that take place with MU's community partners were severely restricted and in most cases canceled. However, before restrictions were in place, the MU ES coordinated with the WVDEP western basin coordinator, the Cabell County Health Department, the Huntington Sanitary Board, the Fourpole Creek Watershed Association and the City of Huntington to coordinate an effort to address non-point source issues in Fourpole Creek. A major portion of the stream's issues within the city limits are due to stormwater related problems. The effort produced a watershed plan for the Fourpole Creek watershed. The plan will be submitted to the USEPA for potential funding to implement projects outlined in the plan.

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.

Mark Buchanan
Environmental Specialist
Marshall University Safety Office
Sorrell Building
Huntington WV 25570-5320
304-696-3461

After 3/1/21
Contact Tracy Smith
Director
Marshall University Safety Office
Sorrell Building
Huntington WV 25570-5320
304-696-2853

V. Changes to SWMP

20. Did any of your activities, BMPs, or measurable goals as outlined in your SWMP change during the reporting period?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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21. Do you anticipate any planned activities, BMPs, or goals as outlined in your SWMP to change in the upcoming reporting period?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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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 2014 General Permit, p. 24, #6 and #7)

N/A

23. Is additional documentation attached?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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VI. MCM 1: Public Education and Outreach (WV MS4 2014 General Permit,)

24. Did you complete all the proposed activities and performance measures for this MCM for this reporting period? Yes No

25. Contact: Mark Buchanan 26. Phone: 304-696-3461

Performance Measure 1a: Program implementation

27. Were the proposed activities for developing a public education and outreach program implemented? Yes Partially No

28. List and briefly describe each of the public education and outreach program development activities undertaken during this reporting period. (WV MS4 2014 General Permit, p. 46, #1)

1. Stormwater webpage - MU maintains a stormwater web page providing information to students, faculty, staff and the general public regarding stormwater impacts.
2. Student Organizations - MU ES works with multiple committees (Earth Day Committee, Tree Committee, Green Trail Committee, Environmental Collaboration Committee) to bring awareness to stormwater issues. Non-campus Organization Meetings - and local MS4 Collaboration.
3. Public Awareness - MU will encourage and support articles in the student newspaper regarding stormwater, water quality and general sustainability.
4. Illicit discharges - MU has made available the physical plant telephone numbers for use by students and staff to report illicit discharges or other pollution concerns.
5. Contractor outreach/education - Make contractors aware by placing an educational stormwater page in the contracting documents. Conduct routine site visits during construction activities.
6. Website/Social Media - In addition to the Stormwater webpage on the Environmental Health and Safety site, the MU Sustainability Department maintains a robust presence on social media sharing information about environmental/sustainable activities including activities on MU Campuses. The ES submits posts regarding stormwater outreach/education, as well as current and upcoming projects.

29. Did you achieve all the goals that you identified in your SWMP related to developing the education and outreach program for this reporting period? (WV MS4 2014 General Permit, p. 46, #3) Yes No

30. 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 2014 General Permit, p. 46, #4)

The Covid-19 pandemic caused us to eliminate all of our "in person" outreach efforts within the local community.

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? Yes Partially No

32. How did you evaluate the effectiveness of the public education and outreach program in this reporting period? (WV MS4 2014 General Permit, p. 46, #2)

MU evaluates the effectiveness of the program with

1. Counting the visits to the website: 1057
2. Social Media engagements: 5,976
3. Meetings attended: 8
4. Illicit discharges reported: 1 notification
5. Total number of interactions (website visits+Social media+outreach total touches) = 7033
6. Website feedback: 0

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 effectiveness of outreach.

N/A

Performance Measure 1c: Documentation and tracking of public education and outreach efforts

35. Did you track and keep records of your outreach activities?	Yes		
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 2014 General Permit, p. 46, #1)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
37. Are your records available upon request?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
38. 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 2014 General Permit, p. 46, #1)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
39. Please describe any additional or alternative documentation and tracking of public education and outreach activities you are implementing. N/A			

VII. MCM 2: Public Involvement and Participation (WV MS4 2014 General Permit)

40. Did you complete all the proposed activities and performance measures for this MCM for this reporting period?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
41. Contact: Mark Buchanan (after March 1, 2021 Tracy Smith 696-2993)	42. Phone: 304-696-3461	

Performance Measure 2a: Opportunities for ongoing public involvement and participation in the SWMP

43. Did you create, or are you in the process of creating, ongoing opportunities for the public to participate in the development, implementation, and updating of your SWMP?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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 2014 General Permit, p. 46, #3)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

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 2014 General Permit, p. 46, #4)

N/A

46. List and briefly describe each of the activities undertaken during the reporting period to create ongoing opportunities for the public to participate in your SWMP. (WV MS4 2014 General Permit, p. 46, #1)

1. The SWMP is posted to the webpage. Feedback is received through a survey link.
2. Students are used to help execute basic tasks with the plan when the opportunity allows.
MU in the community:
Website/Social Media - MU's Sustainability Department maintains a robust presence on social media sharing information about all environmental/sustainable activities undertaken on Marshall's Campus including stormwater outreach and projects. (Approximately 5976 contacts regarding stormwater related posts)
Outreach Events:
Earth Day Celebration at Marshall University - Vendors, program information and green roof tours for students, staff and the general public to celebrate Earth Day. (This event was canceled in 2020)
Water Festival at Marshall University - Several elementary schools annually rotate through multiple workstations each with a lesson regarding water quality taught by a variety of volunteers from Marshall University, Army Corps of Engineers, WV DNR and WV DEP. (This event was canceled in 2020)
Sky-fest at Marshall University - Several elementary schools rotate through eighteen different workstations covering a variety of science themed topics. Sessions are lead by MU staff, and volunteers from a variety of state and federal agencies. (This event was canceled in 2020)

47. Describe how you evaluated the effectiveness of your public participation efforts (citizen attendance at public hearings, requests for information on your SWMP, hotline activity, etc.).
(WV MS4 2014 General Permit, p. 46, #2)

Effectiveness is measured by total number of contacts made through each activity.

1. Total visits to the website in 2019/2020 program year was 1057.
2. The Sustainability Department maintains a strong social media presence throughout the year. The Marshall University ES shares articles and posts regarding stormwater topics. Likes and post engagements are calculated for posts related to stormwater and other sustainable initiatives with the Page Insight data. Posts reached a total of approximately 5976 people.
3. Events/Activities at MU engaged 7033 contacts.

48. Describe the steps taken to ensure that public participation opportunities are ongoing and, if necessary, additional program maintenance activities in future reporting periods to ensure continued participation opportunities. (WV MS4 2014 General Permit, p. 46, #4)

The website is updated periodically. MU Environmental Specialist and staff will continue to promote and support a number of activities that ensure continued participation opportunities including: website and social media contacts, Earth Day Celebration, the Fall Water Festival and guest lecturing on the topic of stormwater management/general water quality.

Performance Measure 2b: Communications with community, watershed, and environmental organizations

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 community-based watershed groups or other organizations are ongoing, or any additional program activities that you believe may be required to ensure continued communications. (WV MS4 2014 General Permit, p. 46, #4)
MU Environmental Specialist supports the efforts of a local watershed association (Fourpole Creek WSA) by offering technical assistance when requested. MU ES efforts during the past program year include:
- Attending the WSA's monthly meetings (By Zoom)
- Completed a watershed based plan that will help guide restoration efforts.

51. Did you achieve all the goals that you identified in your SWMP related to creating and maintaining ongoing communications with community based watershed groups or other organizations for this reporting period? (WV MS4 2014 General Permit, p. 46, #3) Yes Partially No

52. 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 2014 General Permit, p. 46, #4)
N/A

Performance Measure 2c: Public availability of SWMP and annual report

53. Did you make your SWMP and annual report available to the public? Yes No

54. If yes, please indicate the web address, or if a physical location, please indicate where it is and the process, if any, required for the public to access it.
<http://www.marshall.edu/stormwater/>

VIII. MCM 3: Illicit Discharge Detection and Elimination (WV MS4 2014 General Permit)

55. Did you complete all the proposed activities and performance measures for this MCM for this reporting period?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
56. Contact: Mark Buchanan	57. Phone: 304-696-3461	

Performance Measure 3a: MS4 map

58. Were your proposed activities for creating and annually updating your MS4 map for the reporting period implemented?	Yes <input checked="" type="checkbox"/>	Partially <input type="checkbox"/>	No <input type="checkbox"/>
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59. List and briefly describe the activities undertaken to either develop or update your MS4 map. (WV MS4 2014 General Permit, p. 46, #1)

Mapping of the existing system is complete. We continue to working to tweak the map and improve the map's accuracy. As development takes place across campus, we continue to highlight priority inspection areas as well as siting potential areas for stormwater/green projects that will aid in creation of a green project priority list.

Performance Measure 3b: Illicit Discharge Detection and Elimination (IDDE) ordinance development

60. Has your municipality adopted an IDDE ordinance in accordance with the requirements of the WV MS4 2014 General Permit (Part II Section C.7.c.10 &11)? Yes No

61. If not, please describe the activities or progress made in adopting or updating an existing ordinance and provide an estimated date for adoption. (WV MS4 2014 General Permit, p. 46, #1)

N/A

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 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 program will be fully implemented.

N/A

64. Were all your measurable goals met for implementing and evaluating an IDDE program during this reporting period? (WV MS4 2014 General Permit, p. 46, #3) Yes No

65. How many field assessments were conducted during the reporting period? 4

66. How many illicit discharges were identified during the reporting period? 1

67. How would you characterize the type of illicit discharges found (sewer cross connections, spills, illegal dumping, unaware residents, etc.)?

MU ES discovered evidence of paint poured down a storm-drain.

68. How would you characterize the type of pollutants discovered in illicit discharges (oil and grease, fecal coliform, chlorine, paints, etc.)? Name the top five pollutants discovered or uncovered by your IDDE program.

Paint

69. How many corrective actions were taken to remove illicit discharges? 0

70. How many enforcement actions were initiated to eliminate illicit discharges into the storm sewer system? 0

71. 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 2014 General Permit, p. 46, #3) Yes Partially No

73. List and briefly describe each of the education and outreach activities undertaken during this reporting period. (WV MS4 2014 General Permit, p. 46, #1)

Annual education and outreach activities were severely limited in 2020 because of the Covid-19 Pandemic. Usual activities that take place on campus are listed below including their status for 2020:

1. Marshall University Environmental Health and Safety Department (MU EHSD) conducts annual staff training to ensure that everyone is familiar with reporting procedures for illicit discharges. (Was not conducted in 2020)
2. MU Environmental Specialist conducts annual chemical/biosafety training to all research staff/students. A portion of the training highlights proper disposal practices utilized on MU's Campus. (Was not conducted in 2020)
3. MU EHSD attended 8 zoom meetings of the Fourpole Creek Watershed Association.
4. The MU EHSD samples semi-annually for nitrogen and phosphorous and posts the results in the annual report on the website. The Spring 2020 samples were not taken.
5. MU EHSD routinely updates the website with information regarding stormwater issues on campus as well as the surrounding Huntington community.

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 2014 General Permit, p. 46, #2)

The success of the effort is measured by the number of contacts the office receives from staff regarding spills and potential environmental hazards. These numbers are recorded throughout the reporting period. During the 2019-2020 program year, 2 significant notifications regarding potential environmental hazards were made to the EH&S office:

- In November of 2019, the office received multiple reports of a strong odor of natural gas throughout several sections along 3rd Avenue. MU ES investigated the claim that the smell was coming from the storm drains. The problem turned out to be the neighboring steel mill was cleaning out multiple catchment ponds on their property.

- In June of 2020, the office received multiple calls reporting standing water along Hal-Greer Blvd near the Smith Music Hall entrance. Upon investigation it was found that the catch basin was blocked with sediment. The Huntington Sanitary Board used a vac truck to clean the basin and restore it to service condition.

Other methods of evaluation:

A quiz is given at the end of the chemical/biological training and results reported to professors of students attendees or the managers of staff members.

The MU ES also counts the number of visitors to the website as well as social media parameters. Results from the on-line quiz offered through our social media page are logged as well.

76. Did you achieve all the goals that you identified in your SWMP related to educating the public on hazards of illegal discharges for this reporting period? (WV MS4 2014 General Permit, p. 46, #3) Yes No

77. 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 2014 General Permit, p. 46, #4)

N/A

Performance Measure 3f: Training for municipal staff on identification, reporting, and elimination of illicit discharges

78. Have you developed a program to train municipal employees on illicit discharges? Yes Partially No

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 2014 General Permit, p. 46, #1)

The annual training for illicit discharges did not take place because of the Covid-19 Pandemic.

81. How did you evaluate the effectiveness of the training activities? (WV MS4 2014 General Permit, p. 46, #2)

N/A

82. How many municipal employees were trained to identify and report illicit discharges?
(WV MS4 2014 General Permit, p. 46, #2)

0 in 2020

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?
(WV MS4 2014 General Permit, p. 46, #3)

Yes

No

84. 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 2014 General Permit, p. 46 #4)

We are planning a follow up training during the summer of 2021.

IX. MCM 4: Construction Site Runoff Control (WV MS4 2014 General Permit, p. 19-22)

85. Did you complete all proposed activities and performance measures for this MCM for this reporting period?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
86. Contact: Mark Buchanan	87. Phone: 304-696-3461	

Performance Measures 4a and 4b: Develop and implement an ordinance to address stormwater runoff from construction sites one acre or greater

88. Has your municipality adopted a construction site runoff control ordinance in accordance with the requirements of the WV MS4 2014 General Permit (Part II Section C.7.d.2 and 4)	Yes <input checked="" type="checkbox"/>	Partially <input type="checkbox"/>	No <input type="checkbox"/>
89. If a program ordinance has not been adopted, have the proposed activities for developing and implementing an ordinance to address stormwater runoff from construction sites been implemented?	Yes <input type="checkbox"/>	Partially <input type="checkbox"/>	No <input type="checkbox"/>
90. Please indicate the anticipated ordinance adoption schedule. (WV MS4 2014 General Permit, p. 46, 4.a)1 N/A			
91. Has your construction site ordinance been reviewed and/or updated to include any new criteria during the reporting period?	Yes <input type="checkbox"/>	Partially <input type="checkbox"/>	No <input checked="" type="checkbox"/>
92. Is your construction site program being fully implemented to include provisions for: i) plan review, ii) routine site inspections, iii) enforcement, and iv) record keeping and reporting?	Yes <input checked="" type="checkbox"/>	Partially <input type="checkbox"/>	No <input type="checkbox"/>
93. Please indicate the number of plan approvals during the reporting period.	1		
94. Please indicate the number of construction site inspections during the reporting period.	15		
95. Please indicate the number of enforcement actions during the reporting period (can attach document).	1		
96. Are enforcement records maintained and available upon request?	Yes <input checked="" type="checkbox"/>	Partially <input type="checkbox"/>	No <input type="checkbox"/>
97. Is there adequate funding to fulfill the program implementation requirements required by the WV MS4 2014 General Permit?	Yes <input checked="" type="checkbox"/>	Partially <input type="checkbox"/>	No <input type="checkbox"/>
98. Briefly list and describe any activities outlined in your SWMP completed during the past permit year related to construction site operator and/or permittee site inspector training. (WV MS4 2014 General Permit, p. 46, 4.a)1 During October 2019, the MU ES reviewed construction plans for a parking garage located on the medical school campus at 15th Street and Charleston Ave. During the fall of 2019 to August of 2020, a total of 15 routine inspections of S/E control measures at the site.			
99. Did you achieve all the goals that you identified in your SWMP related to developing or implementation and assessment of a construction site runoff control program for this reporting period? (WV MS4 2014 General Permit, p. 46, #3)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
100. 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 2014 General Permit, p. 46, #4) N/A			

X. MCM 5: Controlling Runoff from New Development and Redevelopment (WV MS4 2014 General Permit, p. 22-33)

101. Did you complete all proposed activities and performance measures for this MCM for this reporting period? Yes No

102. Contact: Mark Buchanan 103. Phone: 304-696-3461

Performance Measure 5a: Develop, implement, and enforce a program to protect water resources by addressing stormwater discharges from regulated new and redevelopment projects

104. Has your municipality adopted a stormwater management ordinance in accordance with WV MS4 2014 General Permit (Part II Section C.7e.8, 11(a)) Yes 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 2014 General Permit, p. 46, 4.a)1
N/A

106. Does your (proposed) ordinance include language incorporating the development incentives described in the WV MS4 2014 General Permit (Part II Section C.7.e.13)? 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 2014 General Permit (Part II Section C.7.e.16) 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? 1

110. What types of projects were reviewed (residential, commercial, industrial, etc.)? (WV MS4 2014 General Permit, p. 32, (u)(ii))
MU Parking Garage

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 2014 General Permit, p. 32, (u)(iii))

New Development

Parking garage:

The runoff from the new parking garage will be captured with the installation of two infiltration trenches; one on the north side and one on the south side. While the Parking garage was not open at the time this report was written, the stormwater BMPs were in place and functioning.

Composting Facility:

MU ES drafted conceptual plans for a catchment system/cistern that will harvest rainwater for use at the new composting facility.

<p>112. Provide a summary of the number and type of projects that qualified for each of the development incentives described in the WV MS4 2014 General Permit (Part II Section C.7.e.16.(u)(iii)) during the reporting period. Please indicate if you have attached additional documentation.</p> <p>N/A</p>	
<p>113. Provide a summary of the number of projects that qualified for any offsite mitigation or payment in lieu options described in the WV MS4 2014 General Permit (Part II, Section C.7.e.16(u)(iii)) during the reporting period. Please indicate if you attach additional documentation.</p> <p>N/A</p>	
<p>114. How many maintenance agreements were approved during the reporting period? (WV MS4 2014 General Permit, p. 32, (u)(iv))</p>	<p>0</p>
<p>115. Were any maintenance agreements recorded at the county courthouse?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>116. Provide a summary of the number and type of stormwater BMP inspections conducted by MS4 personnel or contracted agents (construction as-built, ongoing operation and maintenance audits, complaint driven, etc.). Include (or attach) a summary of: i) the type and number of BMPs requiring maintenance or repair, ii) the number brought into compliance, and iii) the number of enforcement actions taken. (WV MS4 2014 General Permit, p. 32, (u)(v))</p> <p>Stormwater BMP structures including raingardens, storage tanks, bioswales, and infiltration trenches inspected quarterly using recent developed Stormwater BMP Field Inspection Sheets. The following parameters are examined: - Evidence of erosion from concentrated flows from impervious surfaces - Siltation/sedimentation - Plant health and stress (If plants are present) - Inspected under-drain connections/valves (if applicable) Permanent structures are located at: Child Development Academy (Raingarden/bioswale), Old Main (Stormwater planter), Pharmacy School Dorms (Raingarden) Pharmacy School Parking lot storage tank</p>	
<p>117. Did you achieve all the goals that you identified in your SWMP related to developing and/or implementing and assessing a stormwater management program for this reporting period? (WV MS4 2014 General Permit, p. 46, #3)</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>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 2014 General Permit, p. 46, #4)</p> <p>N/A</p>	

Performance Measure 5b: Long-term watershed protection elements

119. Does a local ordinance or equivalent document incorporate the watershed protection elements described in WV MS4 2014 General Permit (Part II Section C.7.e.8))	Yes <input checked="" type="checkbox"/>	Partially <input type="checkbox"/>	No <input type="checkbox"/>
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120. If yes, please describe how the permittee's legal authority addresses the following watershed protection elements: (WV MS4 2014 General Permit, p. 32,(u)(i))

121. Minimize impervious cover.	<small>All development and redevelopment on Marshall University property takes into consideration all elements of the watershed protection elements. All contractors are informed that projects will not progress</small>
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122. Preserve, protect, create, and restore ecologically sensitive areas.	All development and redevelopment on Marshall University property takes into consideration all elements of the watershed protection elements. All contractors are informed that projects will not progress until all elements of the watershed protection elements program are satisfied.
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123. Implement practices that prevent or reduce thermal impacts to streams.	All contractors are informed that the project will not progress until all elements of the watershed protection elements program are satisfied.
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124. Seek to avoid or prevent hydromodification of water bodies caused by development.	All development and redevelopment on Marshall University property takes into consideration all elements of the watershed protection elements. All contractors are informed that projects will not progress until all elements of the watershed protection elements program are satisfied.
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125. Minimize impacts to existing vegetation (especially trees).	<small>All development and redevelopment on Marshall University property takes into consideration all elements of the watershed protection elements. All contractors are informed that projects will not progress</small>
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126. Minimize impacts to native undisturbed soils.	<small>All development and redevelopment on Marshall University property takes into consideration all elements of the watershed protection elements. All contractors are informed that projects will not progress</small>
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127. If the watershed protection elements have not yet been incorporated into a planning document or ordinance, please describe the actions to be taken to incorporate these elements. (WV MS4 2014 General Permit, p. 23, # 10)

MU has little legal authority for enforcement of the watershed protection elements. However, MU has the ability to require contractors to comply with program guidelines or be removed from the project.

Performance Measure 5c: Street and parking design assessments

128. Were the proposed activities for assessing the current street design guidelines and parking requirements implemented (WV MS4 2014 General Permit, page 33 (v))?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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129. If this is your third-year report, please attach your report assessing the current street and parking design requirements, and recommendations and proposed schedules for incorporating policies and standards to maximize vegetation and minimize impervious cover where possible. (WV MS4 2014 General Permit, p. 46, #8)

XI. MCM 6: Pollution Prevention & Good Housekeeping for Municipal Operations (WV MS4 2014 General Permit, p. 33-38)

130. Did you complete all the required performance measures for this MCM for this reporting period?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
131. Contact: Mark Buchanan	132. Phone: 304-696-3461	

Performance Measures 6a and 6b: Develop and implement an operation and maintenance program for all municipal facilities that includes prevents or reduces the discharge of polluted runoff

133. Were the proposed activities for developing a pollution prevention and good housekeeping program for municipal operations implemented?	Yes <input type="checkbox"/>	Partially <input type="checkbox"/>	No <input type="checkbox"/>
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134. List and briefly describe the activities outlined in your SWMP for the development of a pollution prevention and good housekeeping program for municipal operations undertaken during this reporting period.

1. Multiple grounds workers/technicians were trained and certified in the proper application of herbicides in July of 2020 through the WV Dept of Agriculture.
2. Review current activities performed by maintenance crews and the materials and methods utilized to identify operations on campus with the potential to cause pollution of water resources.
3. Review existing policies and guidelines needed to ensure compliance.
4. Educate and train employees on policies.
5. Prioritize or find new guidelines where needed, update guidelines and procedures as necessary.
6. Currently annual stormwater management training is provided to all trade supervisors and employees. All lab personnel and medical students are given training to address proper disposal methods and management of chemicals.

135. Do you have a pollution prevention plan for each of your municipal facilities as required by the WV MS4 2014 General Permit (Part II Section C.7.f)1)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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136. Do you have an inspection schedule for conducting inspections at your municipal facilities as required by the WV MS4 2014 General Permit (Part II Section C.7.f)5)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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137. Are you tracking and maintaining records of inspection and maintenance activities for each municipal facility as required by the WV MS4 2014 General Permit (Part II Section C.7.f)6)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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138. If you answered no to any of the previous three questions, please indicate your proposed schedule for implementing the requirements of the WV MS4 2014 General Permit (page 46, 4.a)1).

It has been determined by the WV DEP that we do not have any municipal facilities.

139. How many inspections were conducted at each municipal facility during the reporting period?	N/A
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140. List the top three problems that you have found while conducting inspections at municipal facilities.

N/A

141. Were these problems corrected? (WV MS4 2014 General Permit, p. 46, 4.a)1)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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142. Did you achieve all the goals that you identified in your SWMP related to developing a pollution prevention and good housekeeping program for municipal operations for this reporting period? (WV MS4 2014 General Permit, p. 46, 4.a)3)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
143. 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 2014 General Permit, p. 46, 4.a)4) All "in person" training events were canceled because of the Covid-19 pandemic. Online and Zoom trainings were discussed as a possible alternative. This idea was abandoned after it was apparent that not all staff have convenient computer access.		

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 described in the WV MS4 2014 General Permit (Part II, Section C.7.f.8)10)?	Yes <input type="checkbox"/>	Partially <input type="checkbox"/>	No <input checked="" type="checkbox"/>
145. Were the proposed activities for implementing a pollution prevention and good housekeeping training program for municipal employees implemented as described in the WV MS4 2014 General Permit (Part II, Section C.7.f.8)9)10)?	Yes <input type="checkbox"/>	Partially <input type="checkbox"/>	No <input checked="" type="checkbox"/>
146. Did municipal employees receive training in accordance with the guidelines described in the WV MS4 2014 General Permit (Part II, Section C.7.f)8)?	Yes <input type="checkbox"/>	Partially <input type="checkbox"/>	No <input checked="" type="checkbox"/>
147. How many employees received training during the reporting period? (WV MS4 2014 General Permit, p. 46, 4.a)1)?	12		
148. Are you maintaining records of all municipal training activities (including training agendas, learning objectives, instructor qualifications, sign in sheets, etc.)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
149. Explain how the effectiveness of the training activities was evaluated (number of employees trained and/or certified in specific good housekeeping skills, measurable improvements in cost or performance of facility maintenance activities, or as outlined in your SWMP). (WV MS4 2014 General Permit, p. 46, 4.a)4) Success was evaluated in the number of grounds workers attaining certification status for proper application of herbicides. MUEH&S also tracks the total yearly weight of Hazardous waste diverted and properly disposed of. During the 2019/2020 program year MU collected for proper disposal 1434.26 pounds of unwanted chemical and hazardous waste.			
150. Did you achieve all the goals that you identified in your SWMP related to training municipal employees on pollution prevention and good housekeeping for this reporting period? (WV MS4 2014 General Permit, p. 46, 4.a)3)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
151. 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 20149 General Permit, p. 46, 4.a)4) N/A			

Dreamscape LLC
PO BOX 1121
PROCTORVILLE, OH 45669
(740)886-5538
dreamscapebret@yahoo.com



INVOICE

BILL TO
Marshall University
One John Marshall Drive
Huntington, WV 25755

INVOICE # 1133
DATE 06/01/2020
DUE DATE 06/01/2020
TERMS Due on receipt

DESCRIPTION	QTY	RATE	AMOUNT
Services Clean permeable pavers (flower bed circle Old Main and southeast corner of library) - Pressure wash pavers - remove debris in joints of pavers - add new gravel to permeable paver joints - clean up and haul away debris	1	945.00	945.00

BALANCE DUE **\$945.00**

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PO BOX 1121
PROCTORVILLE, OH 45669
(740)886-5538
dreamscapebret@yahoo.com



Invoice

BILL TO
Marshall University
One John Marshall Drive
Huntington, WV 25755

INVOICE # 1111
DATE 07/26/2019
DUE DATE 08/25/2019
TERMS Net 30

ACTIVITY	QTY	RATE	AMOUNT
Services Cleaned two sections permeable pavers - removed layer of soil in paver gaps - cleaned pavers - adjusted gravel around pavers that needed adjusted	1	215.00	215.00

BALANCE DUE **\$215.00**

