



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF WATERSHED MANAGEMENT

**MS4 ANNUAL REPORT FORM  
FOR STORMWATER DISCHARGES FROM  
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4s)**

**Reporting Period**

(Check appropriate block. Fill in the year for the reporting period you are submitting the report if not listed.)

- March 10, 2008 through March 9, 2009 (due June 9, 2009)  
 March 10, 2009 through March 9, 2010 (due June 9, 2010)  
 March 10, 2013 through March 9, 2014 (due June 9, 2014)

**SECTION I – SMALL MS4 OPERATOR INFORMATION**

**1. Name of MS4 Permittee and NPDES Permit Number**

Name: Lancaster Township PAG: 133584 PAI: \_\_\_\_\_  
Co-permittee: \_\_\_\_\_

**2. Location**

Municipality: Lancaster Township County: Lancaster County  
Watershed Name(s): Conestoga River and Little Conestoga River

**3. Contact Person from the MS4**

Name: William M. Laudien Title: Township Manager Phone: 717-291-1213  
Fax: 717-291-6818 Email: wlaudien@twp.lancaster.pa.us

**4. Permittee Mailing Address**

Address: 1240 Maple Avenue  
City: Lancaster State: PA Zip Code: 17603

**5. MS4 Website (If applicable)**

URL: \_\_\_\_\_

**6. Permittee's Consultant/Engineer Information (If applicable)**

Company Name: \_\_\_\_\_  
Consultant/Engineer Name: \_\_\_\_\_ Title: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

## SECTION II – MCM INFORMATION

7A. Have you completed all required activities for?

Year 1:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Year 2:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Year 3:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Year 4:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Year 5:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

7B. Complete the following section for each watershed-based or Act 167 Storm Water Management Plan.

Watershed Plan Name Conestoga River Act 167 Plan

Is this an Act 167 Plan? Yes  No

If yes, has DEP approved the plan? Yes  No

If yes, give date: June 2005

Is the ordinance required by the plan enacted: Yes  No

If yes, give effective date: February 2006

If the ordinance is not enacted, please provide the anticipated enactment date \_\_\_\_\_  
and explain the status: \_\_\_\_\_

Watershed Plan Name Little Conestoga River Act 167 Plan

Is this an Act 167 Plan? Yes  No

If yes, has DEP approved the plan? Yes  No

If yes, give date: December 1997

Is the ordinance required by the plan enacted: Yes  No

If yes, give effective date: February 2006

If the ordinance is not enacted, please provide the anticipated enactment date \_\_\_\_\_  
and explain the status: \_\_\_\_\_

Watershed Plan Name \_\_\_\_\_

Is this an Act 167 Plan? Yes  No

If yes, has DEP approved the plan? Yes  No

If yes, give date: \_\_\_\_\_

Is the ordinance required by the plan enacted: Yes  No

If yes, give effective date: \_\_\_\_\_

If the ordinance is not enacted, please provide the anticipated enactment date \_\_\_\_\_  
and explain the status: \_\_\_\_\_

7C. Please provide current contact name and phone number information:

MCM #1

Public Education and Outreach on Storm Water Impacts

Name: William M. Laudien

Phone: 717-291-1213

MCM #2

Public Involvement/Participation

Name: William M. Laudien

Phone: 717-291-1213

MCM #3

Illicit Discharge Detection and Elimination (IDD&E)

Name: William M. Laudien

Phone: 717-291-1213

MCM #4

Construction Site Storm Water Runoff Control

Name: Lancaster County Conservation District

Phone: 717-299-5361

MCM #5

Post-Construction Storm Water Management in New Development and Redevelopment

Name: Lancaster County Conservation District

Phone: 717-299-5361

MCM #6

Pollution Prevention/Good Housekeeping for Municipal Operations

Name: William M. Laudien

Phone: 717-291-1213

**MCM#4 - CONSTRUCTION SITE STORM WATER RUNOFF CONTROL — MINIMUM CONTROL MEASURE**

**14A. MS4s USING DEP PROTOCOL for this MCM**

**BMP: Implement and enforce ordinance to satisfy this Minimum Control Measure.** (How was ordinance implemented and enforced during the past permit year in order to meet the goals of this MCM?).

Measurable goal for this BMP was met.  Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions:

The construction site stormwater runoff control enforcement is a cooperative effort between the Lancaster County Conservation District, the public works department, and the Lancaster Township Planning and Zoning Department.

Is this BMP appropriate to meet your identified measurable goal?  Yes  No. If No, please provide additional information on other BMP(s) that would meet the goal.

**14B. BMP: Implement procedures for the review and enforcement of Erosion and Sediment (E&S) Control Plans.** (Who reviewed E&S Control Plans during the past permit year? Did the MS4 permittee conduct any E&S site inspections? Briefly describe any enforcement activities undertaken by the MS4 permittee.)

Measurable goal for this BMP was met.  Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions:

Construction E&S plans are reviewed by the Lancaster County Conservation District staff. Compliance inspections are done periodically by that department throughout the construction period. Additionally, Lancaster Township staff conducts regular site inspections in conjunction with building and zoning inspections. These regular inspections by township staff allow us to ensure that things such as silt fence/socks are in place and effective, and tire washing is taking place on a daily basis while Conservation District inspections can focus on the more technical aspects of compliance. In the last calendar year, that cooperative effort has been effective in ensuring that all controls are in place and maintained

In this reporting period, all construction activity was monitored at a minimum on a weekly basis. On site walk-thoughts were conducted by our building inspector, public works staff, Conservation District officials, and zoning officer. On site inspection and enforcement was a priority change.

Is this BMP appropriate to meet your identified measurable goal?  Yes  No. If No, please provide additional information on other BMP(s) that would meet the goal.

**14C. BMP: Provide education and outreach for developers and builders.** (What educational/outreach materials were distributed to developers/builders during the past permit year?)

Measurable goal for this BMP was met.  Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions:

Lancaster Township continues to utilize pre-construction meetings, the subdivision and land development process, as well as the zoning and building permit process, to engage with developers and builders for education and outreach. We use those contacts as opportunities to review policies, procedures, and ordinance compliance. On-site inspections allow for additional review and discussion, not only for violations, but also for positive feedback of effective control measures and work well done.

Is this BMP appropriate to meet your identified measurable goal?  Yes  No. If No, please provide additional information on other BMP(s) that would meet the goal.

**MCM#4 (continued)**

14D. **BMP: Require construction site operators to control waste at the construction site.** (What was done in the past permit year to require construction site operators to control wastes such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary wastes?)

Measurable goal for this BMP was met.  Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions:

As per township ordinances, builders are required to manage the site in a way that ensures the proper discarding of waste materials, clean-up, and material handling. Compliance with these ordinances is handled in the ways described above with regular inspections conducted cooperatively between the zoning inspector, building inspector, and the Lancaster County Conservation District. On site inspections were conducted, at a minimum, weekly but Township Staff, contracted staff, or the Conservation District.

Is this BMP appropriate to meet your identified measurable goal?  Yes  No. If No, please provide additional information on other BMP(s) that would meet the goal.

14E. **BMP: Implement procedures for the receipt and consideration of information submitted by the public.** (Summarize any information or complaints received from the public during the past permit year concerning construction site storm water runoff. Briefly describe how you responded to any such information/complaints?)

Measurable goal for this BMP was met.  Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions:

Public concerns and complaints are received by our office via email, phone or in written form. The forms and contact information are available on the township website, in our newsletter, and at our office. These methods have proven to be effective over the last calendar year. Recent Example: Concerns over a particular site were expressed by a resident via email and phone and were immediately followed up by the township staff. This resulted in a review and modification of the truck washing operation on-site and a subsequent street cleaning to eliminate some material on the road. A revision of the operations resulted in a clean and compliant job site.

Our website and email address continues to be a dependable resource of public engagement.

Is this BMP appropriate to meet your identified measurable goal?  Yes  No. If No, please provide additional information on other BMP(s) that would meet the goal.

**MCM#4 (continued)**

**15. MS4s USING OWN PROTOCOL FOR THIS MCM**

If you are implementing your own protocol, approved by the Department, describe the current status of this Minimum Control Measure. In the boxes below list all BMPs and measurable goals you identified on your NOI or application approved by DEP. If the goals were met, describe how they were met. If they were not met, describe the current status of each and when/how they will be met.

**Goal #1**

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

**Goal #2**

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

**Goal #3**

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

**MCM#5 - POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT — MINIMUM CONTROL MEASURE**

**16A. MS4s USING DEP *PROTOCOL* for this MCM**

**BMP: Implement and enforce ordinance to satisfy this Minimum Control Measure.** (How was ordinance implemented and enforced during the past permit year in order to meet the goals of this MCM?)

Measurable goal for this BMP was met.  Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions:

Construction site stormwater runoff control enforcement is a cooperative effort between the Lancaster County Conservation District and Lancaster Township Planning and Zoning Department.

Is this BMP appropriate to meet your identified measurable goal?  Yes  No. If No, please provide additional information on other BMP(s) that would meet the goal.

**16B. BMP: Ensure that all Post-Construction Storm Water Management (PCSWM) BMPs in new or re-development areas are built as designed, and operated and maintained properly.** (Summarize how the MS4 permittee accomplished this during the past permit year. Include a list of all applicable PCSWM BMPs.)

Measurable goal for this BMP was met.  Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions:

Compliance is handled primarily by the Lancaster County Conservation District as a follow-up to their construction compliance and E&S review efforts. Additionally, Lancaster Township staff conducts regular field inspections of facilities, as well as reviews of facilities based on complaints. In the last calendar year, these methods were successful in determining deficiencies in a substantial basin and having that situation remedied before any damage occurred. We regularly work with residents to ensure that conveyance systems and inlets are unobstructed and maintained in working order.

Site inspection is achieved by utilizing our building code inspector as a secondary site inspector for stormwater issues.

Is this BMP appropriate to meet your identified measurable goal?  Yes  No. If No, please provide additional information on other BMP(s) that would meet the goal.

**MCM#5 (continued)**

**17. MS4s USING OWN PROTOCOL FOR THIS MCM**

If you are implementing your own protocol, approved by the Department, describe the current status of this Minimum Control Measure. In the boxes below list all BMPs and measurable goals you identified on your NOI or application approved by DEP. If the goals were met, describe how they were met. If they were not met, describe the current status of each and when/how they will be met.

**Goal #1**

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

**Goal #2**

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

**Goal #3**

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

### SECTION III – CERTIFICATION

#### CERTIFICATION STATEMENT

I certify under penalty of law that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

William M. Laudien, Township Manager

Name and official title

*William M. Laudien*

Signature

May 9, 2014

Date

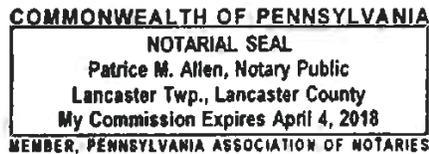
Sworn and subscribed to before me, this 9 day of May, 2014

*Patrice M. Allen*

Notary Public

My commission expires April 4, 2018

(Notary Public Seal and Stamp)





THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 435

LECTURE 10

LECTURE 10: THE HADRONIC SPECTRUM

The hadronic spectrum is the spectrum of states of the strong interaction. It is the spectrum of the Hamiltonian of the strong interaction. The hadronic spectrum is the spectrum of the Hamiltonian of the strong interaction. The hadronic spectrum is the spectrum of the Hamiltonian of the strong interaction.

LECTURE 10: THE HADRONIC SPECTRUM