

BRADFORD WOODS BOROUGH

**Minimum Control Measure 5
Post-Construction Stormwater
Management (PCSM) in New
and Re-Development Activities**

PAG-13 General NPDES Permit No. PAG136263

MCM 5 POST-CONSTRUCTION STORM WATER MANAGEMENT (PCSM) IN NEW AND RE-DEVELOPMENT ACTIVITIES

Introduction

Prior to the issuance of the NPDES MS4 Permit, the Borough filed a Notice of Intent (NOI) and submitted it to PADEP. Under Section E (4)-(5), Bradford Woods stated that the Borough is relying on PADEP's statewide QLP for issuing NPDES Permits for storm water discharges associated with construction activities to satisfy BMPs #1-3 under MCM #5.

The following are the requirements for MCM #5 that are included in the Federal Regulations:

- Develop, implement, and enforce a program to address storm water runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale, that discharge into the Borough's MS4.
- Develop and implement strategies which include a combination of structural and/or nonstructural best management practices (BMPs) appropriate for the Borough.
- Use an ordinance or other regulatory mechanism to address post-construction runoff from new development and redevelopment projects to the extent allowable under State, Tribal, or local law.
- Ensure adequate long-term operation and maintenance of BMPs.

BMP #4

Bradford Woods Borough has enacted, implemented, and enforced the Stormwater Ordinance No 458 to address post-construction Stormwater runoff from new development and redevelopment projects, as well as sanctions and penalties associated with non-compliance, to the extent allowable under State or local law. The adopted Stormwater Ordinance is submitted along with the Periodic Report to the PADEP. Along with the attached storm water ordinance, the proof of publication is also provided to the PADEP to ensure that proper advertisement of adoption took place. Public meetings were held, as described in MCM #2, for any resident to comment on the adoption of the ordinance. The meetings were documented by placing the actions and comments pertaining to the ordinance in the meeting minutes. Copies of meeting minutes pertaining to storm water actions and events are maintained in the MS4 file located at the municipal building.

BMP #5

Develop and implement measures to encourage and expand the use of Low Impact Development (LID) in new and re-development. Measures also include to encourage retrofitting LID into existing development. A complete inventory of development and re-development projects authorized for construction since March 10, 2003 that discharge storm water to the Borough's

regulated MS4s is provided in the MS4 files. The Borough has enacted a storm water ordinance consistent with LID practices and repeal sanctions of ordinances that conflict with LID practices. Should the Borough update the ordinance and change the LID practices, it shall be summarized in the Borough's Periodic Report provided to the PADEP. Additionally, attached to the Stormwater Management Ordinance, is "Low Impact Development Practices Alternative Approach for Managing Stormwater Runoff" (Appendix A). This document is available at the municipal building for interested parties.

BMP #6

The Borough has adequate operation and maintenance of all post-construction storm water management BMPs installed at all qualifying development or redevelopment projects. An inventory of post-construction best management practices (PCSM BMPs) has been developed and is continually updated during the term of coverage under the permit as development projects are reviewed, approved, and constructed. The inventory includes all PCSM BMPs installed since March 10, 2003 that discharge directly or indirectly to the Borough's regulated small MS4s. The inventory also includes PCSM BMPs discharging to the regulated small MS4 system that may cause or contribute to violation of water quality standard. PCSM BMPs installed since March 10, 2003 are included on the Borough's MS4 mapping. The PCSM BMP's ownership is also shown on the map (i.e. municipal or private). The specific information pertaining to each PCSM BMP is listed on a spreadsheet with the following information:

- The exact location of the PCSM BMP
- Information for the BMP owner and entity responsible for BMP Operation and

Maintenance (O&M), if different from BMP owner

- The type of BMP and the year it was installed
- Maintenance required for the BMP type according to the Pennsylvania Stormwater BMP

Manual or other manuals and resources Inspections of PCSM BMPs are conducted annually to ensure the proper operation of maintenance of the facility. In permit 2, Year 1 – 3, the inspections were performed by a representative of Lennon, Smith, Souleret Engineering (LSSE) Inc. and documentation (Appendix B) of the findings were forwarded to the Borough. Photos were attached to the report showing the findings and all documentation can be found in the MS4 files located at the municipal building. If an issue is found with a privately-owned BMP, a letter (Appendix C) to the responsible party is issued. The responsible party is issued a certain amount of time, indicated on the letter, to address the issues found and provide documentation back to the Borough indicating that the necessary actions were taken to have the PCSM BMP operating as originally designed. The remaining annual inspections of the PCSM BMPs will be performed by the Borough's Environmental Compliance and Sustainability Coordinator. An executed tracking spreadsheet (Appendix D) is used by the Borough for all inspections of PCSM BMPs. All documentation pertaining to inspections can be found in the MS4 files located at the municipal building.

APPENDIX A

APPENDIX B

APPENDIX C

**BRADFORD WOODS BOROUGH
POST CONSTRUCTION STORMWATER MANAGEMENT BMP
REVIEW CHECKLIST**

BMP NAME:

DATE:

RECEIVING WATERS:

DRAINAGE AREA:

LONGITUDE:

LATITUDE:

REVIEWER:

DATE LAST

REVIEWED:

DATE IMPLEMENTED:

GENERAL NOTES:

- OUTLET STRUCTURE:

- EMERGENCY SPILLWAY:

- EMBANKMENT:

- SILTATION/SEDIMENTATION ACCUMULATION:

- VEGETATION:

- ACCESS ROAD/FENCING:

- MISCELLANEOUS:

MAINTENANCE ITEMS COMPLETED SINCE LAST REVIEW:

REQUIRED MAINTENANCE/REPAIR ITEMS

APPENDIX D

[Date]

[BMP OWNER]

[ADDRESS]

[ADDRESS]

Subject: [NAME OF BMP]

Stormwater Management BMP Review

Required Maintenance

Dear [BMP OWNER]:

As one of the Minimum Control Measures included in the Borough's NPDES Municipal Separate Storm Sewer (MS4) General Permit, the Pennsylvania Department of Environmental Protection (PaDEP) requires the Borough ensure adequate operation and maintenance of all post-construction stormwater management BMPs through implementation of an annual inspection program. In accordance with this requirement, a review of the [BMP NAME/DESCRIPTION] located [LOCATION] was conducted on [DATE] by the Borough of Bradford Woods.

Corrective repairs and routine maintenance must be completed to promote proper operation of the facility. Based on our field review, the following items must be addressed:

1. [ITEM 1]
2. [ITEM 2]
3. [ITEM 3]

Please contact [CONTACT] to schedule a field review of the facility to discuss the above listed items. Failure to complete outstanding maintenance within 30 days may result in issuance of a Notice of Violation of the Borough Stormwater Management Ordinance No. 458.

Should you have any questions or require additional information, please call.

Sincerely,

XXXXXXXX, [TITLE]