Pollutant Reduction Plan (PRP) and Total Maximum Daily Load (TMDL) Plan Highlights

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Introduction

EPA	Environmental Protection Agency
DEP	Department of Environmental Protection
NPDES	National Pollutant Discharge Elimination System
MS4	Municipal Separate Storm Sewer System
BMP	Best Management Practice
PRP	Pollutant Reduction Plan
TMDL	Total Maximum Daily Load

Stormwater Permit Program

* A federal regulation requires the Township to secure a permit from DEP since 2003.
* The permit is a result of new storm water regulation developed by the U.S. EPA under the Clean Water Act.
* PA DEP created a state permitting program to meet the federal regulation.
* The permit program has a goal of reducing the pollutants associated with storm water runoff.

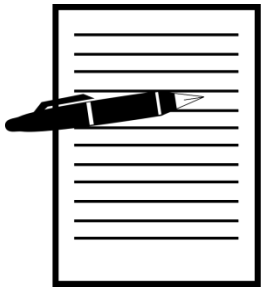
Individual Permit

Individual Permit (IP)

* Medium or Large MS4s
* Discharges to "Special Protection" watershed
* Has a WLA in a TMDL for nutrients and/or sediment
* Renewed 180 days before expiration of current NPDES MS4 Permit

Application & Fees

* Individual Permit → Application



* Renewal Individual Permit (IP) → $2,500
  * Including GP to IP

Application Due Date

SEPTEMBER 16, 2017

MS4 Requirements Table

MS4 Name	NPDES ID	Individual Permit Required?	Reason	Impaired Downstream Waters or Applicable TMDL Name	Requirement(s)	Other Cause(s) of Impairment
Bucks County						
NORTHAMPTON TWP	PAG‑30098	Yes	TMDL Plan	Little Neshaminy Creek	Appendix B-Pathogens (5), Appendix C-PCB (5), Appendix E-Nutrients, Organic Enrichment/Low D.O. (5)	Water/Flow Variability (4c)
				Mill Creek		Other Habitat Alterations, Water/Flow Variability (4c)
				Neshaminy Creek	Appendix B-Pathogens (5), Appendix E-Nutrients, Organic Enrichment/Low D.O. (5)	
				Neshaminy Creek TMDL	TMDL Plan-Siltation, Suspended Solids (4a)	

PADEP states that Northampton Township is required to prepare the following:

- PRP – Little Neshaminy Creek and Neshaminy Creek for Nutrients
- TMDL Plan – Neshaminy Creek for Sediment

(both are due with Application and must achieve pollutant load reduction within 5 years of DEP's approval of coverage)

TMDL Plan Requirements

Each MS4 TMDL Plan must include the following Required TMDL Plan Elements:

* Section A: Public Participation
* Section B: Map
* Section C: Pollutant(s) of Concern
* Section D: Existing Load for Pollutant(s) of Concern
* Section E: Wasteload Allocation(s) (WLA(s))
* Section F: Analysis of TMDL Objectives
* Section G: Select BMPs to Achieve the Minimum Required Reductions in Pollutant Load
* Section H: Identify Funding Mechanisms
* Section I: Identify Responsible Parties for Operation and Maintenance (O&M) of BMPs

PRP & TMDL Plan Information

DESCRIPTION	SEDIMENT VALUE	PHOSPHORUS VALUE	UNIT
Existing Pollutant Load	31,884,150	9,748	lb/year
Proposed Pollutant Load with BMPs	31,190,637	9,476	lb/year
Minimum Required Reduction for PRP Planning Area	N/A	174	lb/year
Minimum Required Short–Term Reduction	339,385	N/A	lb/year
Minimum Required Reduction for Little Neshaminy Creek	111,706	N/A	lb/year
Minimum Required Reduction for Neshaminy Tributary #1	397,057	N/A	lb/year
Proposed Pollutant Load Reduction from BMPs	693,513	272	lb/year

Best Management Practices (BMPs)

BMP Effectiveness Values Table outlines possible selected BMPs to achieve required minimum reductions:

Retrofit of Existing Basins

- Vegetated Open Channels/Filter Strip
- Infiltration Practices

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Delaware River