

Application Type Renewal  
Facility Type MS4  
Permit Type Individual

## NPDES PERMIT FACT SHEET MS4s



Application No. PAI130050  
APS ID 951449  
Authorization ID 1200488

### Applicant and Facility Information

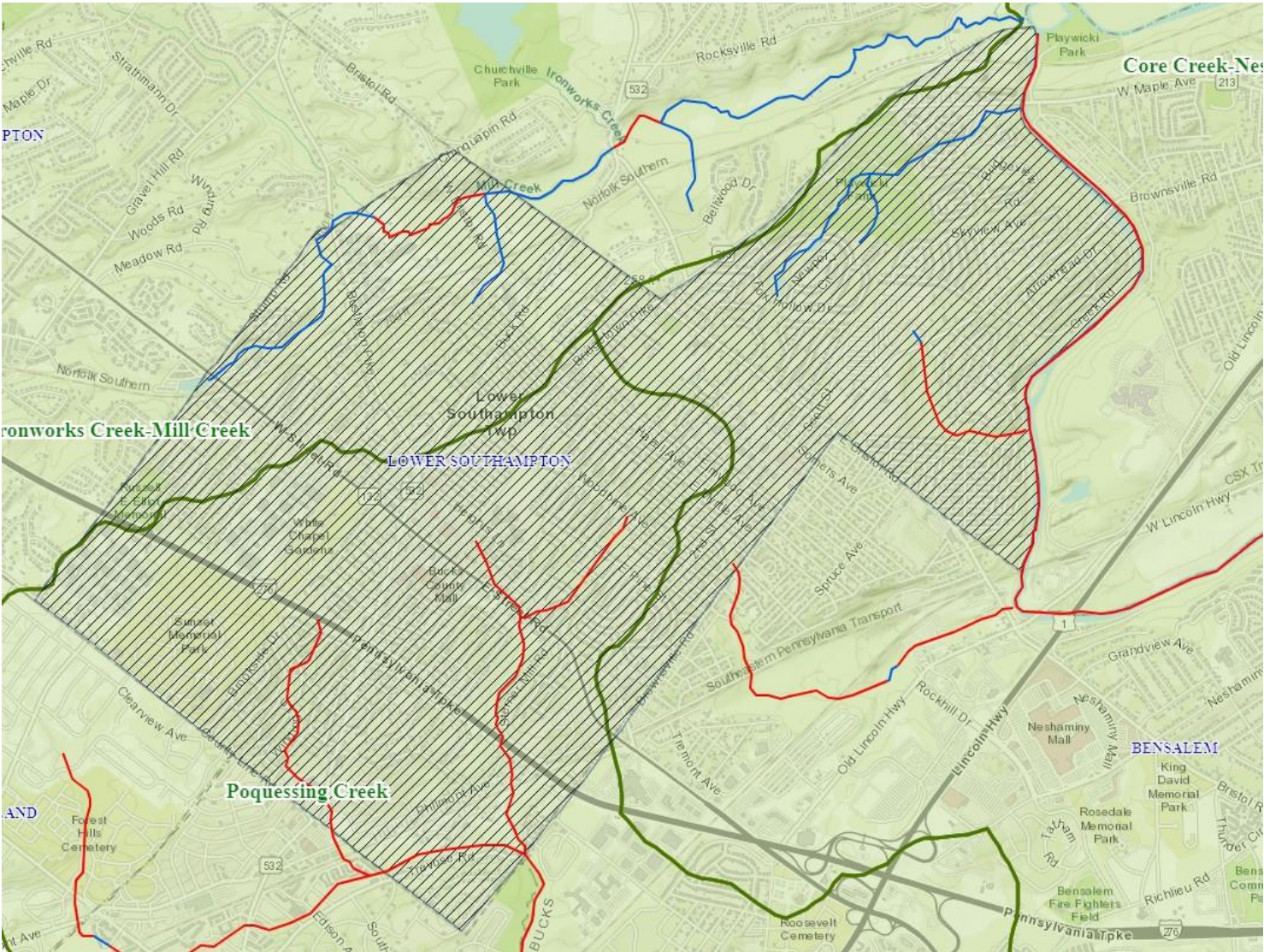
<p>Applicant Name <u>Lower Southampton Township Bucks County</u></p> <p>Applicant Address <u>1500 Desire Avenue</u> <u>Feasterville, PA 19053</u></p> <p>Applicant Contact <u>Joseph Galdo</u></p> <p>Applicant Phone <u>(215) 357-7300</u></p> <p>Client ID <u>33086</u></p> <p>SIC Code <u>9199</u></p> <p>SIC Description <u>Public Admin. - Genral Government, Nec</u></p> <p>Date Application Received <u>September 14, 2017</u></p> <p>Date Application Accepted _____</p> <p>Purpose of Application _____</p>	<p>Facility Name <u>Lower Southampton Township MS4 UA</u></p> <p>Facility Address <u>1500 Desire Avenue</u> <u>Feasterville, PA 19053</u></p> <p>Facility Contact <u>Joseph Galdo</u></p> <p>Facility Phone <u>(215) 357-7300</u></p> <p>Site ID <u>613850</u></p> <p>Municipality <u>Lower Southampton Township</u></p> <p>County <u>Bucks</u></p>
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### Internal Review and Recommendations

In the interest of issuing this permit in a timely manner, DEP has made the decision to issue this permit with a compliance schedule.

Approve	Deny	Signatures	Date
		  / Ian Quinlan Environmental Engineer	July 26, 2024
x		<i>Elizabeth Mahoney</i> Elizabeth Mahoney/Environmental Group Manager	08/08/2024

Internal Review and Recommendations



Internal Review and Recommendations

MS4 Urban Area Report

NORTHAMPTON

LOWER SOUTHAMPTON TWP, Bucks County

<b>INDIVIDUAL PERMIT REQUIRED:</b> Yes	<b>REASON:</b> TMDL Plan	<b>NPDES ID:</b> PAG130030
<b>IMPAIRED DOWNSTREAM WATERS</b>	<b>REQUIREMENTS</b>	<b>OTHER CAUSES OF IMPAIRMENT</b>
Poquessing Creek	Appendix C-PCB (5) Appendix E-Excessive Algal Growth (5)	Flow Alterations Other Habitat Alterations Water/Flow Variability (4c)
Neshaminy Creek TMDL	TMDL Plan-Siltation Suspended Solids (4a)	
Mill Creek		Other Habitat Alterations Water/Flow Variability (4c)
Neshaminy Creek	Appendix B-Pathogens (5) Appendix E-Nutrients Organic Enrichment/Low D.O. (5)	

MS4 Name	NPDES ID	Individual Permit Required?	Reason	Impaired Downstream Waters or Applicable TMDL Name	Requirement(s)	Other Cause(s) of Impairment
Bucks County						
Lower Southampton Township	PAG130030	Yes	TMDL Plan	Neshaminy Creek	Appendix B – Pathogens (5), Appendix E – Nutrients, Organic Enrichment/Low D.O. (5)	
				Poquessing Creek	Appendix C – PCB (5), Appendix E – Excessive Algal Growth (5)	Flow Alterations, Other Habitat Alterations, Water/Flow Variability (4c)
				Neshaminy Creek TMDL	TMDL Plan – Siltation, Suspended Solids (4a)	
				Mill Creek		Other Habitat Alterations, Water/Flow Variability (4c)



Internal Review and Recommendations

MS4 Name	Permit Number	HUC 12 Name	Impaired Downstream Waters or Applicable TMDL Name	Requirement(s)
Bucks County				
Lower Southampton Township	PAG130030	Core Creek – Neshaminy Creek, Ironworks Creek-Mill Creek	Neshaminy Creek TMDL	TMDL Plan – Siltation, Suspended Solids
		Core Creek – Neshaminy Creek	Neshaminy Creek	Appendix B – Pathogens, Appendix E – Excessive Algal Growth, Nutrients, Organic Enrichment/Low D.O.
		Poquessing Creek	Poquessing Creek	Appendix E – Excessive Algal Growth, Nutrients, Organic Enrichment/Low D.O.
		Swede Run – Delaware River	Poquessing Creek	Appendix C - PCB

Lower Southampton Township Base Pollutant Loading with Existing BMPs Summary:

	Model My Watershed
	TSS (lbs/yr)
Base Pollutant Loading with No BMPs	796,061.00
BMP Reductions for Poquessing Creek	58,432.00
Base Pollutant Loading with Existing BMPs	737,629.00
Required Reduction Percentage	10%
Required Reduction (lbs/yr)	73,762.90

Appendix F – Core Creek-Neshaminy Creek Requirement Excluding Reductions Provided by Existing BMPs

Watershed	Model My Watershed
	TSS (lbs/yr)
Neshaminy Creek South #1	1,115,678.00
Required Short-Term Reduction Percent	10%
Required Short-Term Reduction (lbs/yr)	111,567.80
Required Long-Term Reduction Percent	30%
Required Long-Term Reduction (lbs/yr)	334,703.40

Appendix F – Core Creek-Neshaminy Creek Requirement Including Reductions Provided by Existing BMPs

Watershed	Model My Watershed
	TSS (lbs/yr)
Base Pollutant Loading Excluding Existing BMPs	1,115,678.00
Neshaminy Creek South #1 BMP Reductions	8,225.00
Total Pollutant Loading with Existing BMPs	1,107,453.00
Required Short-Term Reduction Percent	10%
Required Short-Term Reduction (lbs/yr)	110,745.30
Required Long-Term Reduction Percent	30%
Required Long-Term Reduction (lbs/yr)	332,235.90

Internal Review and Recommendations

				Model My Watershed
Watershed	BMP ID	BMP Description	Linear Footage	TSS (lbs/yr)
Poquessing Creek	BMPPC-SR1	Stream Restoration	750	86,250.00
Required Reduction				73,762.90
Surplus Reduction				+12,487.10

				Model My Watershed
Watershed	BMP ID	BMP Description	Linear Footage	TSS (lbs/yr)
Poquessing Creek	BMPPC-SR2	Stream Restoration	1,900	218,500.00
	BMPPC-SR3	Stream Restoration	550	63,250.00
	BMPPC-BS1	Bioswale	-	34,032.92
	BMPPC-CW1	Constructed Wetland	-	20,403.97
	BMPPC-BS2	Bioswale	-	15,565.99
	BMPPC-A3R	Basin Retrofit – Infiltration Basin	-	13,193.16
	BMPPC-C 1R	Basin Retrofit – Infiltration Basin	-	11,408.67
	BMPPC-BS3	Bioswale	-	10,912.06
	BMPPC-A8R	Basin Retrofit – Infiltration Basin	-	9,997.31
	BMPPC-A3R2	Basin Retrofit – Dry Extended Detention Basin	-	7,760.68
	BMPPC-C1R2	Basin Retrofit – Dry Extended Detention Basin	-	6,710.98

	BMPPC-A8R2	Basin Retrofit – Dry Extended Detention Basin	-	5,880.77
Total (Excluding Extended Dry Detention Basin Retrofits)				397,263.08
Total (Excluding Infiltration Basin Retrofits)				383,017.37
Required Reduction				73,762.90

Model My Watershed				
	BMP ID	BMP Description	Linear Footage	TSS (lbs/yr)
Core Creek-Neshaminy Creek	BMPNC-SR1	Stream Restoration	3,000	345,000.00
Required Reduction				332,235.90
Surplus Reduction				+12,764.10

Internal Review and Recommendations

Model My Watershed					
	BMP ID	BMP Description	Linear Footage	Drainage Area (AC)	TSS (lbs/yr)
Core Creek-Neshaminy Creek	BMPNC-SR2	Stream Restoration	1,200	-	138,000.00
Core Creek-Neshaminy Creek	BMPNC-H1R	Basin Retrofit – Infiltration Basin	-	43.14	33,279.74
Core Creek-Neshaminy Creek	BMPNC-H1R2	Basin Retrofit – Dry Extended Detention Basin	-	43.14	19,576.32
Core Creek-Neshaminy Creek	BMPNC-G3R	Basin Retrofit – Infiltration Basin	-	33.14	25,617.65
Core Creek-Neshaminy Creek	BMPNC-G3R2	Basin Retrofit – Dry Extended Detention Basin	-	33.14	15,069.20
Total (Excluding Extended Dry Detention Basin Retrofits)					196,897.39
Total (Excluding Infiltration Basin Retrofits)					172,645.52
Required Reduction					332,235.90

Lower Southampton Township will not own, but will operate, the BMPs identified in the PRP. Specific requirements for each BMP are identified below:

**BMPPC-SR1: Stream Restoration**

**Location:** Winding Ln. (Private Property)

**Responsible Party:** Lower Southampton Township

**Operation & Maintenance Activities:** The stream restoration will be inspected annually and after storm events with 3 inches or greater rainfall. It will be monitored for invasive species or damage to vegetation. Invasive species removal and provision of supplemental vegetation will be provided, as needed. Stream banks will be inspected for erosion and addressed as needed.

Internal Review and Recommendations

BMPNC-SR1: Neshaminy Creek Stream Restoration:

<i>Location:</i>	Playwicki Farm
<i>Responsible Party:</i>	Lower Southampton Township
<i>Operation &amp; Maintenance Activities:</i>	The stream restoration will be inspected annually and after storm events with 3 inches or greater rainfall. It will be monitored for invasive species or damage to vegetation. Invasive species removal and provision of supplemental vegetation will be provided, as needed. Stream banks will be inspected for erosion and addressed as needed.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.