

Application Type Renewal  
Facility Type MS4  
Permit Type Individual

## NPDES PERMIT FACT SHEET MS4s

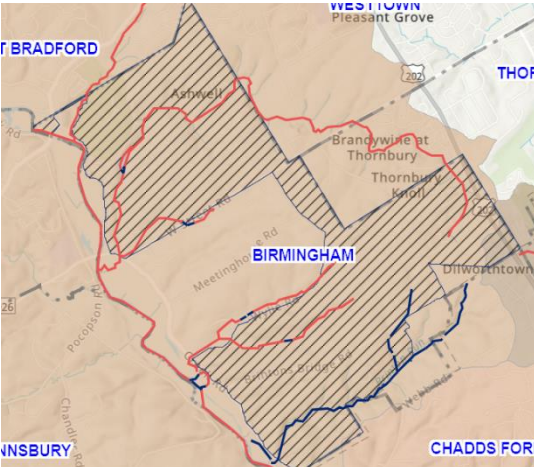
Application No. PAI130036  
APS ID 950318  
Authorization ID 1198092

### Applicant and Facility Information

Applicant Name	<u>Birmingham Township Chester County</u>	Facility Name	<u>Birmingham Township MS4 UA</u>
Applicant Address	<u>1040 W Street Road</u> <u>West Chester, PA 19382-8012</u>	Facility Address	<u>1040 West Street Road</u> <u>West Chester, PA 19382-8012</u>
Applicant Contact	<u>Quina Nelling</u>	Facility Contact	<u>Quina Nelling</u>
Applicant Phone	<u>(610) 793-2600</u>	Facility Phone	<u>(610) 793-2600</u>
Client ID	<u>78155</u>	Site ID	<u>613963</u>
SIC Code	<u>9199</u>	Municipality	<u>Birmingham Township</u>
SIC Description	<u>Public Admin. - Genral Government, Nec</u>	County	<u>Chester</u>
Date Application Received	<u>September 13, 2017</u>		
Date Application Accepted	<u>September 20, 2024</u>		
Purpose of Application	<u>Permit Renewal</u>		

### Internal Review and Recommendations

BIRMINGHAM TWP	PAG130047	Yes	TMDL Plan	West Branch Chester Creek	Appendix E-Siltation (5)	Cause Unknown (5), Other Habitat Alterations, Water/Flow Variability (4c)
				Christina River Basin Sediment	TMDL Plan-Siltation, Suspended Solids (4a)	
				Radley Run		Water/Flow Variability (4c)
				Plum Run		Water/Flow Variability (4c)
				Unnamed Tributaries to Brandywine Creek		Other Habitat Alterations (4c)



### 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.

Approve	Deny	Signatures	Date
x		<i>Carrie Konnovitch</i> Carrie M Konnovitch, P.E. / Environmental Engineer Trainee	October 1, 2024
x		<i>Elizabeth Mahoney</i> Elizabeth A Mahoney / Environmental Group Manager	10-03-2024

Internal Review and Recommendations

PRP:

Birmingham Township Simplified Sediment Baseline Loading

PA DEP Simplified Method	
Sediment (lbs/yr)	
West Branch Chester Creek Baseline Sediment Loading	6,387.73
Required Sediment Reduction Percent	10%
Required Sediment Reduction (lbs/yr)	638.77

Birmingham Township Simplified Sediment Baseline Loading Including Existing BMPs

PA DEP Simplified Method	
Sediment (lbs/yr)	
West Branch Chester Creek Sediment Loading	6,387.73
Existing BMP Reductions	553.45
Sediment Loading with Existing BMPs	5,834.28
Required Sediment Reduction Percentage	10%
Required Sediment Reduction (lbs/yr)	583.43

Birmingham Township Selected PRP BMPs

Watershed	BMP ID	BMP Description	Drainage Area (AC)	Sediment (lbs/yr)
West Branch Chester Creek	BMPWBCC-BR1	Basin Retrofit – Dry Extended Detention Basin	5.54	2,767.23
Required Sediment Reduction				583.43
Surplus Sediment Reduction				+2,183.80

Reductions Provided by Existing BMPs

BMP ID	BMP Type	Watershed	Impervious Area (AC)	County Impervious TSS Loading Rate (lbs/ac/yr)	Pervious Acres	County Pervious TSS Loading Rate (lbs/ac/yr)	Total TSS Loading	TSS BMP Effectiveness Percentage	TSS Reduction (lbs/yr)
BMP015	Dry Detention Basins and Hydrodynamic Structures	West Branch Chester Creek	3.50	1,504.78	1.47	185.12	5,534.45	10	553.45

Final Load Reduction Requirement

Watershed	Drainage Area (AC)			PA DEP Land Loading TSS (lbs/yr)
	Impervious	Pervious	Total	
West Branch Chester Creek	3.31	7.60	10.91	6,387.73
BMP Reductions	1.54	4.00	5.54	553.45

Base Pollutant Loading with Existing BMPs 5,834.28

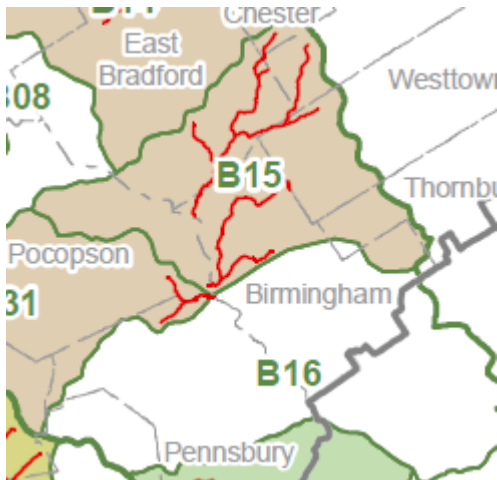
Required Reduction Percent 10%

Required Reduction (lbs/yr) 583.43

Internal Review and Recommendations

TMDL Plan:

MUNICIPALITIES LISTED IN TMDL REPORTS	Sediment (tons/year)			
	Baseline MS4 Load <sup>1b</sup>	MS4 Load Allocation <sup>1b</sup>	MS4 Load Reduction <sup>1a</sup>	% Reduction <sup>1b</sup>
Brandywine Creek Watershed				
BIRMINGHAM TWP	310.81	130.35	180.46	58.06%



Birmingham Township Model My Watershed Sediment Baseline Loading

Model My Watershed	
Sediment (lbs/yr)	
Christina River Basin B15 Baseline Sediment Loading	648,305.00
Required Short-Term Sediment Reduction Percentage	10%
Required Short-Term Sediment Reduction (lbs/yr)	64,830.50
Required Long-Term Sediment Reduction Percentage	58.06%
Required Long-Term Sediment Reduction (lbs/yr)	376,405.88

Birmingham Township Model My Watershed Sediment Baseline Loading Including Existing BMPs

Model My Watershed	
Sediment (lbs/yr)	
Christina River Basin B15 Sediment Loading	648,305.00
Existing BMP Reductions	37,073.00
Sediment Loading with Existing BMPs	611,232.00
Required Short-Term Sediment Reduction Percentage	10%
Required Short-Term Sediment Reduction (lbs/yr)	61,123.20
Required Long-Term Sediment Reduction Percentage	58.06%
Required Long-Term Sediment Reduction (lbs/yr)	354,881.30

Birmingham Township Short-Term TMDL Requirement

Christina River Basin TMDL	
Sediment (lbs/yr)	
Subbasin B15 Final Sediment Loading	611,232.00
Required Short-Term Sediment Reduction Percentage	10%
Required Short-Term Sediment Reduction (lbs/yr)	61,123.20

**Internal Review and Recommendations**

**Birmingham Township Long-Term TMDL Requirement**

<b>Christina River Basin TMDL</b>	
<b>Sediment (lbs/yr)</b>	
Subbasin B15 Final Sediment Loading	611,232.00
<i>Required Long-Term Sediment Reduction Percentage</i>	<i>58.06%</i>
<b>Required Long-Term Sediment Reduction (lbs/yr)</b>	<b>354,881.30</b>

**Birmingham Township Selected TMDL BMPs**

<b>Subbasin</b>	<b>BMP ID</b>	<b>BMP Description</b>	<b>Linear Footage</b>	<b>Sediment (lbs/yr)</b>
Christina River Basin – B15	BMPCR-SR1	Stream Restoration	3,500	402,500.00
<b>Required Short-Term Sediment Reduction</b>				<b>61,123.20</b>
<b>Required Long-Term Sediment Reduction</b>				<b>354,881.30</b>