

Application Type Renewal
Facility Type MS4
Permit Type Individual

NPDES PERMIT FACT SHEET
MS4s

Application No. PAI130074
APS ID 952995
Authorization ID 1203061

Applicant and Facility Information


| | | | |
|---------------------------|--|------------------|--|
| Applicant Name | <u>North Wales Borough Montgomery County</u> | Facility Name | <u>North Wales Borough MS4 UA</u> |
| Applicant Address | <u>300 School Street</u> <u>North Wales, PA 19454</u> | Facility Address | <u>300 School Street</u> <u>North Wales, PA 19454</u> |
| Applicant Contact | <u>Christine Hart</u> | Facility Contact | <u>Amy Montgomery</u> |
| Applicant Phone | <u>(215) 699-4424</u> | Facility Phone | <u>(215) 345-9400</u> |
| Client ID | <u>41294</u> | Site ID | <u>617344</u> |
| SIC Code | <u>9199</u> | Municipality | <u>North Wales Borough</u> |
| SIC Description | <u>Public Admin. - Genral Government, Nec</u> | County | <u>Montgomery</u> |
| Date Application Received | <u>September 15, 2017</u> | | |
| Date Application Accepted | <u>October 25, 2017</u> | | |
| Purpose of Application | <u>Formerly PAG130005.</u> | | |

Internal Review and Recommendations

Township Public Participation:

Advertising of the PRP - The availability of the original draft PRP / TMDL Plan was released via public notice on March 16, 2023 in The Reporter and The Reporter Digital in Montgomery County. A copy of the public notice is included in Appendix A as an item in A-1.

Public Comments Received - The public was given 30 days to provide commentary on the contents of the PRP / TMDL. No written comments were received during the public comment period. At the April 11, 2023 North Wales Borough Council public meeting, there was a presentation on the PRP / TMDL Plan and there was an opportunity for public feedback on the plan. During the public meeting, general questions were asked regarding the tracking of BMPs and location of proposed BMPs. There were no concerns noted regarding the PRP / TMDL Plan at the public meeting. Meeting minutes excerpts for the PRP / TMDL Plan Presentation portion of the April 11, 2023 public meeting are included in Appendix A Item A-2.

| Approve | Deny | Signatures | Date |
|---------|------|--|---------------|
| X | |  Ian Quinlan; Environmental Engineering Specialist | July 19, 2023 |
| x | | <i>Elizabeth Mahoney</i> Elizabeth Mahoney Environmental Group Manager | 07/19/2023 |

Internal Review and Recommendations

Pollutants of Concern:

| Impaired Downstream Waters / TMDL Plan Name | Requirements |
|--|---|
| Wissahickon TMDL | TMDL Plan – Siltation, Suspended Solids (4a) |
| Wissahickon Creek | Appendix B – Pathogens (5), Appendix E – Nutrients (4a) |

Loading Clac's:

TABLE 5.1-1 Existing Load and Watershed Reductions from the 2017 TMDL Plan

| Municipality | Existing Load from Streambank Erosion (lbs/yr) | Streambank Erosion WLA (lbs/yr) | Percent Reduction for Streambank Erosion | Existing Overland Load (lbs/yr) | Overland Load WLA (lbs/yr) | Percent Reduction for Overland Load (lbs/yr) | TOTAL WLA (lbs/yr) |
|--------------------|--|---------------------------------|--|---------------------------------|----------------------------|--|--------------------|
| Ambler | 17,974.49 | 9,346.73 | 0.48 | 75,008.50 | 32,843.24 | 0.56 | 42,189.97 |
| Cheltenham | 1,758.29 | 1,512.13 | 0.14 | 20,549.46 | 4,449.00 | 0.78 | 5,951.13 |
| Horsham | 2,611.24 | 1,267.20 | 0.51 | 5,764.44 | 2,288.51 | 0.60 | 3,555.71 |
| Lansdale | 10,032.37 | 5,216.83 | 0.48 | 60,295.96 | 47,115.59 | 0.22 | 52,332.43 |
| Lower | 168,245.82 | 87,487.83 | 0.48 | 575,510.64 | 349,872.50 | 0.39 | 437,360.30 |
| Montgomery | 25,443.78 | 13,230.77 | 0.48 | 135,550.26 | 97,897.57 | 0.28 | 111,128.30 |
| North Wales | 8,414.77 | 4,375.68 | 0.48 | 50,070.60 | 37,955.87 | 0.24 | 42,331.55 |
| Philadelphia | 133,827.01 | 115,091.23 | 0.14 | 1,413,863.47 | 265,770.10 | 0.81 | 380,861.30 |
| Springfield | 51,241.03 | 38,361.29 | 0.25 | 700,517.47 | 151,803.80 | 0.78 | 190,165.00 |
| Upper Dublin | 350,903.91 | 131,125.58 | 0.63 | 906,098.66 | 333,482.10 | 0.63 | 464,607.60 |
| Upper | 73,016.96 | 37,968.82 | 0.48 | 695,874.85 | 512,615.60 | 0.26 | 550,584.30 |
| Upper | 1,108.17 | 366.85 | 0.67 | 1,303.29 | 494.72 | 0.62 | 851.57 |
| Whitemarsh | 79,221.96 | 51,034.76 | 0.36 | 479,266.95 | 188,497.70 | 0.61 | 239,532.40 |
| Whitpain | 105,137.80 | 55,148.05 | 0.48 | 357,776.46 | 236,125.20 | 0.34 | 291,273.30 |
| Worcester | 1,423.06 | 739.99 | 0.48 | 10,644.84 | 9,610.08 | 0.10 | 10,350.07 |

5.1.1 Short-term and Long-term TMDL Requirements

North Wales Borough must reduce the Total Existing Load by 10% to satisfy the short-term TMDL requirement. The Needed Wasteload Reduction (Total Existing Load minus Total WLA) for North Wales Borough is the amount of reduction needed to satisfy the long-term TMDL requirement.

Internal Review and Recommendations

Per the numbers shown in Figure 2 above, the Total Existing Load for North Wales Borough is:

$$\begin{aligned}
 &8,414.77 \text{ lbs./yr (Streambank Erosion Load)} \\
 &+ 50,070.60 \text{ lbs./yr (Overland Load)} \\
 &= 58,485.37 \text{ lbs./yr (Total Existing Load)}
 \end{aligned}$$

For North Wales Borough, the Needed Wasteload Reduction is shown in the calculation below:

$$\begin{aligned}
 &58,485.37 \text{ lbs./yr (Total Existing Load)} \\
 &- 42,331.55 \text{ lbs./yr (Total WLA)} \\
 &= 16,153.82 \text{ lbs./yr (Needed Wasteload Reduction).}
 \end{aligned}$$

| North Wales Borough Existing BMPs | Sediment Reduction (lbs./yr) |
|--|------------------------------|
| #1 - North Wales Station - 1 Underground Infiltration Basin, 1 Bio-infiltration Basin, 3 Bioretention Basins | 106.55 |
| #2 - Shearer Street Retention Basin | 21.17 |
| #3 - North Wales Library - 2 Underground Infiltration Basins | 27.05 |
| #4 - Hess Park Rain Garden | 77.80 |
| #5 - 715 E. Walnut Street - 2 Underground Infiltration Basins | 41.52 |
| #6 - North Wales Elementary School - 3 Underground Infiltration Basins | 178.24 |
| #7 - Center Street Detention Basin - Retrofit | 1,153.39 |
| Total Sediment Reduction from Existing BMPs: | 1,605.73 |

| Sediment Load and Reductions: | lbs./ yr. |
|---|-----------------|
| TMDL Existing Load for North Wales Borough: | 58,485.37 |
| <i>Minus Loading from Parsed Area (Using TMDL Loading Rates):</i> | <i>2,073.56</i> |
| <i>Minus Existing BMP Pollutant Load Reduction:</i> | <i>1,605.73</i> |
| Short Term Reduction for TMDL (10%): | 5,480.61 |

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| Sediment Load and Reductions: | lbs./ yr. |
|---|------------------|
| TMDL Baseline Load for North Wales Borough: | 58,485.37 |
| Total WLA: | 42,331.55 |
| Needed Wasteload Reduction: | 16,153.82 |
| <i>Minus Loading from Parsed Area (Using TMDL Loading Rates):</i> | <i>2,073.56</i> |
| <i>Minus Existing BMP Pollutant Load Reduction:</i> | <i>1,605.73</i> |
| Long Term Reduction Goal for TMDL: | 12,474.53 |

Proposed BMPs:

| North Wales Proposed BMPs | Sediment Reduction (lbs./yr.) |
|---|-------------------------------|
| #1 - Street Sweeping | 519.68 |
| #2 - Inlet Cleaning | 445.71 |
| #3 - 9th Street Park Stream Restoration | 6,732.00 |
| #4 - 9th Street Park Pervious Paving | 13.64 |
| #5 - 9th Street Park Bioretention Area / Wet Meadow | 22.85 |
| #6 - 9th Street Park to 10th Street Stream Restoration | 10,546.80 |
| #7 - 10th Street Stream Restoration (Only 1 side of stream) | 3,366.00 |
| #8 - NWB Treatment Plant Stream Restoration ¹ | 89,760.00 |
| #9 - Montgomery Avenue Stream Restoration | 6,732.00 |
| #10 - 8th Street and Montgomery Avenue Stream Restoration | 16,605.60 |
| #11A/11B - S. Center Street / W. Walnut Street Rain Garden and Underground Detention Basin | 133.39 |
| #12 - OP08 Regenerative Stormwater Conveyance | 515.80 |
| #13 - OP09 Regenerative Stormwater Conveyance ¹ | 734.16 |
| #14 - Beaver Steet Stream Restoration ¹ | 13,464.00 |
| Total Proposed BMP Reductions for North Wales Borough | 134,744.27 |
| Long term Reduction Requirements for North Wales Borough | 12,474.53 |
| Short term Reduction Requirements for North Wales Borough (10% reduction for current permit cycle) | 5,480.61 |

Funding:

| BMP # | Sponsor/Partner/Funding Sources |
|-------|---|
| 1 | North Wales Borough operational budget funds; |
| 2 | North Wales Borough operational budget funds; |
| 3 | North Wales Borough budget funds, local business tax; DCNR, DEP, NFWF, PECO Green Region Open Space Program are potential grant sources for installation; |

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| | |
|-------------|---|
| 4 | North Wales Borough budget funds, local business tax; DCNR, DEP, NFWF, PECO Green Region Open Space Program are potential grant sources for installation; |
| 5 | North Wales Borough budget funds, local business tax; DCNR, DEP, NFWF, PECO Green Region Open Space Program are potential grant sources for installation; |
| 6 | North Wales Borough budget funds, local business tax; DEP, NFWF, PECO Green Region Open Space Program are potential grant sources for installation; |
| 7 | North Wales Borough budget funds, local business tax; DEP, NFWF, PECO Green Region Open Space Program are potential grant sources are potential grant sources for installation; |
| 8 | North Wales Borough budget funds, local business tax; DEP, NFWF, PECO Green Region Open Space Program are potential grant sources for installation; |
| 9 | North Wales Borough budget funds, local business tax; DEP, NFWF, PECO Green Region Open Space Program are potential grant sources for installation; |
| 10 | North Wales Borough budget funds, local business tax; DEP, NFWF, PECO Green Region Open Space Program are potential grant sources for installation; |
| 11A, 11B | North Wales Borough budget funds, local business tax, private business funds; DEP is potential grant sources for installation; |
| 12 | North Wales Borough budget funds, local business tax; DEP, NFWF, PECO Green Region Open Space Program are potential grant sources for installation; |
| 13 | North Wales Borough budget funds, local business tax; DEP, NFWF, PECO Green Region Open Space Program are potential grant sources for installation; |
| 14 | North Wales Borough budget funds, local business tax; DEP, NFWF, PECO Green Region Open Space Program are potential grant sources for installation; |

O&M:

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| BMP Type | O&M Activities | Frequency for O&M Activities |
|------------------------------------|---|--|
| Street Sweeping / Inlet Cleaning | Inspections, maintain records of dry ticketed weights in accordance with DEP and Expert Panel Guidelines. | Based on frequency of street sweeping and inlet cleaning, and in accordance with DEP and Expert Panel Guidelines. |
| Regenerative Stormwater Conveyance | Inspect for stability following storm events, plant survival monitoring, mowing and weeding, monitoring for scour and sediment build-up, plant replacement and additional O&M as specified in design details. | Provide biannual inspections for first three years and annual inspections thereafter. Additional inspections following large storm events; additional O&M activities will be detailed in the final design. |
| Underground Infiltration | Inspect inlet controls, outlet structures and storage areas for trash and sediment accumulation. Remove sediment and debris. | Inspect inlet, outlet and storage areas monthly for the first year to determine ongoing maintenance frequency. |
| Rain Garden | Inspection, vegetation management and invasive species control, plant replacement | Biannual inspections for first three years and annual inspections thereafter. Additional inspections following large storm events. |
| Bioretention / Wet Meadow | Inspection, vegetation management and invasive species control, plant replacement | Vegetation management as needed during the growing season. Biannual inspections for first three years and annual inspections thereafter. Additional inspections following large storm events. |
| Stream Restoration | Inspection for bank stability following storm events, plant survival monitoring, mowing and weeding to ensure plant survival, plant replacement and additional O&M as specified in design details. | Biannual inspections for first three years and annual inspections thereafter. Additional inspections following large storm events; additional O&M activities will be detailed in the final design. |
| Porous Paving | Inspections, vacuum sweeping | Quarterly inspections of the pervious pavement shall be conducted to verify that it is functioning as intended and no cracking is occurring. The pervious asphalt shall |
| | | be vacuum swept at least once per year. |

Public Participation

Internal Review and Recommendations

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.