

Application Type Renewal  
Facility Type Municipal  
Major / Minor Minor

## NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0060763  
APS ID 742356  
Authorization ID 1454858

### Applicant and Facility Information

Applicant Name	<u>Middle Smithfield Township</u>	Facility Name	<u>Winona WWTP</u>
Applicant Address	<u>147 Municipal Drive</u> <u>East Stroudsburg, PA 18302</u>	Facility Address	<u>1107 Scout Circle</u> <u>East Stroudsburg, PA 18302</u>
Applicant Contact	<u>Joan Woison</u>	Facility Contact	<u>David Scholtz</u>
Applicant Phone	<u>(570) 223-8920</u>	Facility Phone	<u>(570) 629-2981</u>
Client ID	<u>44038</u>	Site ID	<u>624684</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Middle Smithfield Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Monroe</u>
Date Application Received	<u>August 16, 2023</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>August 16, 2023</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of NPDES permit.</u>		

### Summary of Review


The applicant is requesting the renewal of an NPDES permit to discharge up to 0.050 MGD of treated sewage into Bush Kill Creek, a High Quality-Cold Water & Migratory Fish (HQ-CWF, MF) receiving stream in State Water Plan Basin 1-D (Shohola – Bushkill Creeks). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use. This stream segment is designated as a naturally reproducing trout stream as per PA Fish & Boat Commission. This discharge is not expected to affect public water supplies.

Limitations for Dissolved Oxygen (DO), CBOD<sub>5</sub>, Total Suspended Solids (TSS), Fecal Coliform, Ammonia-Nitrogen, Total Dissolved Solids (TDS), Phosphorus, Total Kjeldahl Nitrogen (TKN) and Nitrate as N are water quality-based per DRBC requirements and are carried over from the previous permit. Limitations for TRC and pH are technology-based and are carried over from the previous permit.

Water Quality Modeling does not recommend more stringent limitations (see attached). Stream gage 1439500 (Bush Kill at Shoemakers, PA) was used as a reference gage to develop the low flow yield (LFY) used to model the discharge. The Q<sub>7-10</sub> and drainage area at the gage were obtained from the USGS StreamStats interactive map. RMI values were obtained using the Department's eMapPA, drainage areas were delineated using StreamStats, and elevations were obtained using the elevation profile tool on StreamStats.

The latest DRBC Docket No. D-1973-209 CP-4 doesn't include any additional requirements to incorporate into the NPDES permit.

Monitoring/reporting requirements for Total Nitrogen and Nitrate-Nitrite as N are carried over in this renewal. As per current DEP guidance, quarterly monitoring/reporting requirements are included in the permit for E. Coli.

Approve	Deny	Signatures	Date
X		 Brian Burden, E.I.T. / Project Manager	November 13, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Program Manager	11-22-24

### Summary of Review

Monitoring frequencies for all parameters with limitations are consistent with the recommended frequencies found in Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations (Document No. 362-0400-001).

The following template Part C special condition for UV system monitoring is included in this renewal:

*The permittee shall report operation of the ultraviolet (UV) disinfection system on a daily basis using the Daily Effluent Monitoring Form (3800-FM-BCW0435) and the parameter named "UV Functional" The permittee shall report values of "1" for Yes (i.e., the UV system is functional) and "< 1" for No (i.e., the UV system is not functional). The UV system shall be considered functional when all components that are necessary for disinfection to achieve effluent limitations in Part A of this permit are operating properly.*

The existing permit expired on March 31, 2024 and the application for renewal was submitted on time. There are no open violations for this client that warrant withholding issuance of this permit.

Sludge use and disposal description and location(s): The permit renewal application indicates 2.502 dry tons of sludge was hauled to the Fernwood WWTP in the previous year.



WQM  
Modeling.pdf



TRC Calculation.pdf



Watershed  
Information.pdf



1973-209 CP-4.pdf

### 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.

**Discharge, Receiving Waters and Water Supply Information**

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.05</u>
Latitude	<u>41° 5' 18"</u>	Longitude	<u>-75° 3' 30"</u>
Quad Name	<u>Bushkill</u>	Quad Code	<u>1045</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters <u>Bush Kill</u>		Stream Code	<u>5054</u>
NHD Com ID	<u>26138786</u>	RMI	<u>5.7</u>
Drainage Area	<u>85.9 mi<sup>2</sup></u>	Yield (cfs/mi <sup>2</sup> )	<u>0.064</u>
Q <sub>7-10</sub> Flow (cfs)	<u>5.49</u>	Q <sub>7-10</sub> Basis	<u>Gage 01439500</u>
Elevation (ft)	<u>491</u>	Slope (ft/ft)	<u>0.002</u>
Watershed No.	<u>1-D</u>	Chapter 93 Class.	<u>HQ-CWF, MF</u>
Existing Use	<u>-</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u>-</u>	Exceptions to Criteria	<u>-</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u>-</u>		
Source(s) of Impairment	<u>-</u>		
TMDL Status	<u>-</u>	Name	<u>-</u>
Nearest Downstream Public Water Supply Intake	<u>Easton Area Water System</u>		
PWS Waters	<u>Delaware River</u>	Flow at Intake (cfs)	<u>297</u>
PWS RMI	<u>110.4</u>	Distance from Outfall (mi)	<u>~ 47</u>

**Treatment Facility Summary**

**Treatment Facility Name:** Winona Wastewater Treatment Plant

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Ultraviolet	0.05
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.05	98	Not Overloaded	Holding Tank	Hauled

**Development of Effluent Limitations**

<b>Outfall No.</b>	<u>001</u>	<b>Design Flow (MGD)</b>	<u>0.05</u>
<b>Latitude</b>	<u>41° 5' 18"</u>	<b>Longitude</b>	<u>-75° 3' 30"</u>
<b>Wastewater Description:</b> <u>Sewage Effluent</u>			

**Technology-Based Limitations**

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Total Residual Chlorine	1.6	IMAX	-	92.48(b)(2)


**Water Quality-Based Limitations**

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model
Dissolved Oxygen	6.0	Minimum	Previous DRBC Requirements
Ammonia-Nitrogen	1.5	Average Monthly	
May 1 – Oct 31	3.0	IMAX	
Ammonia-Nitrogen	3.5	Average Monthly	
Nov 1 - Apr 30	7.0	IMAX	
CBOD <sub>5</sub>	8.5	Average Monthly	
	12.8	Average Weekly	
	17.0	IMAX	
Total Suspended Solids	10.0	Average Monthly	
	15.0	Average Weekly	
	20.0	IMAX	
Fecal Coliform	70.0 / 100 ml	Geo Mean	
	1,000 / 100 ml	IMAX	
Total Dissolved Solids	1,000	Average Monthly	
	2,000	IMAX	
Nitrate as N	4.0	Average Monthly	
	8.0	IMAX	
Total Kjeldahl Nitrogen	5.2	Average Monthly	
	10.4	IMAX	
Total Phosphorus	0.42	Average Monthly	
	0.84	IMAX	



DRAFT

Approve	Deny	Signatures	Date
X		 Brian Burden, E.I.T. / Project Manager	November 13, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Program Manager	11-22-24