

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0233005
APS ID 1103342
Authorization ID 1466455

Applicant, Facility and Project Information


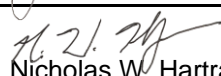
Applicant Name <u>Michael W & Robin J Fleming</u>	Facility Name <u>Michael W & Robin J Fleming</u>
Applicant Address <u>1197 Pleasant Hills Road</u> <u>Williamsport, PA 17701</u>	Facility Address <u>1197 Pleasant Hills Road</u> <u>Williamsport, PA 17701</u>
Applicant Contact <u>Robin Fleming</u>	Facility Contact <u>Robin Fleming</u>
Applicant Phone <u>(570) 916-7469</u>	Facility Phone <u>(570) 916-7469</u>
Client ID <u>345681</u>	Site ID <u>831746</u>
SIC Code <u>4952</u>	Municipality <u>Eldred Township</u>
SIC Description <u>Trans. & Utilities - Sewerage Systems</u>	County <u>Lycoming</u>
Date Application Received <u>December 26, 2023</u>	WQM Required <u>No</u>
Date Application Accepted <u>January 4, 2024</u>	WQM App. No. <u></u>
Project Description <u>Application for a new individual NPDES permit for the discharge of treated sewage from a SRSTP.</u>	

Summary of Review

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.

This permit is for the discharge from a proposed single residence sewage treatment plant (SRSTP) serving a three-bedroom home. The treatment plant replaced an existing malfunctioning onlot septic system.

An individual Single Residence permit is required due to the use of an alternative design that is not covered in the *Small Flow Treatment Facilities Design Manual* (Document 362-0300-002.) The Premier Tech Aqua Ecoflo Coco Biofilter Ecoflo EC7's can be used in PAG-04 applications except for the EC7-500-PP which is not acceptable for a general permit.

Approve	Deny	Signatures	Date
X		 Jonathan P. Peterman / Project Manager	February 6, 2025
X		 Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	February 6, 2025

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0004</u>
Latitude	<u>41° 17' 52.28"</u>	Longitude	<u>-76° 59' 33.27"</u>
Quad Name	<u>Montoursville North</u>	Quad Code	<u>0830</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary of Millers Run (WWF, MF)</u>	Stream Code	<u>20488</u>
NHD Com ID	<u>66913903</u>	RMI	<u>1.15</u>
Drainage Area	<u>66913903</u>	Yield (cfs/mi ²)	<u>N/A</u>
Q ₇₋₁₀ Flow (cfs)	<u>< 0.1 mi²</u>	Q ₇₋₁₀ Basis	<u>N/A</u>
Elevation (ft)	<u>Undetermined</u>	Slope (ft/ft)	<u>Undetermined</u>
Watershed No.	<u>1105</u>	Chapter 93 Class.	<u>Warm Water Fishes, Migratory Fishes</u>
Existing Use	<u>10B</u>	Existing Use Qualifier	<u>N/A</u>
Exceptions to Use	<u>N/A</u>	Exceptions to Criteria	<u>None</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u>N/A</u>		
Source(s) of Impairment	<u>N/A</u>		
TMDL Status	<u>N/A</u>	Name	<u>N/A</u>
Nearest Downstream Public Water Supply Intake	<u>PA American Water White Deer</u>		
	<u>West Branch of Susquehanna</u>		
PWS Waters	<u>River</u>	Flow at Intake (cfs)	<u>682</u>
PWS RMI	<u>10.5</u>	Distance from Outfall (mi)	<u>32</u>

Changes Since Last Permit Issuance: None.

Other Comments: None.

Treatment Facility Summary

Treatment Facility Name: Michael W & Robin J Fleming SRSTP

Waste Type	Degree of Treatment	Process Type	Disinfection	Design Flow (MGD)
Sewage	Tertiary	ECOFLO Coco Filter	Hypochlorite	0.0004
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0004	--	Not Overloaded	None.	Other WWTP.

Treatment System Components for Outfall 001:

- One (1) 1,500-gallon septic tank.
- One (1) Effluent filter.
- One (1) Ecoflo EC7-500-PP Coco filter.
- One (1) UV disinfection system.
- One (1) Outfall.

WQM 4118402 was issued concurrently with this NPDES Permit on 1/14/19 for the original construction of the system.

Changes Since Last Permit Issuance: N/A.

Other Comments: None.

Existing Effluent Limitations and Monitoring Requirements

Existing Limits – Outfall 001

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
BOD5	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/year	Grab

*The existing effluent limits for Outfall 001 were based on a design flow of 0.0004 MGD.

Chesapeake Bay Requirements

Facilities that are designed based on a flow of less than 2,000 GPD (400 GPD design flow for this facility) are not a part of Pennsylvania's Chesapeake Bay Tributary Strategy. Accordingly, it is not practicable to require the permittee to perform nutrient monitoring.

Anti-Backsliding

In accordance with 40 CFR 122.44(l)(1) and (2), this permit does not contain effluent limitations, standards, or conditions that are less stringent than the previous permit.

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst the abovementioned technology, water quality, and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001) and/or BPJ.

Proposed Limits - Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
BOD ₅	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/year	Grab

*The proposed effluent limits for Outfall 001 were based on a design flow of 0.0004 MGD.

Development of Effluent Limitations and Monitoring Frequencies

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
BOD ₅	10	Average Monthly	125.3(a)(2)(i)	DEP SFTF Design Manual (Document 362-0300-002)
	20	IMAX		
Total Suspended Solids	10	Average Monthly	125.3(a)(2)(i)	DEP SFTF Design Manual (Document 362-0300-002)
	20	IMAX		
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform	200 / 100 ml	Geo Mean	-	92a.47(a)(4)

BOD₅ (10 mg/L) and TSS (10mg/L) are technology-based limits stipulated in the *Technical Guidance for the Development and Specification of Effluent Limitations* (362-0400-001). The fecal coliform limits correspond with 25 PA Code § 92a.47 (a)(4). pH monitoring is not required for SRSTPs. The treatment design utilizes UV disinfection. No monitoring is required for UV disinfection systems at SRSTPs.

All of the monitoring frequencies sample types correspond with the policies and procedures stipulated in the SOP in lieu of the *Technical Guidance for the Development and Specification of Effluent Limitations* (362-0400-001).

Compliance History

WMS Query Summary - A WMS Query was run at *Reports - Violations & Enforcements – Open Violations for Client Report* to determine whether there are any unresolved violations associated with the client that will affect issuance of the permit (per CSL Section 609). This query revealed that there were no unresolved violations.