

# Southeast Regional Office CLEAN WATER PROGRAM

Application Type	New
Wastewater Type	Sewage
Facility Type	SRSTP

# NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No.	PA0245445			
APS ID	1073906			
Authorization ID	1111161			

Applicant Name	Formica Michael	Facility Name	24 Meng Road SRSTP
Applicant Address	24 Meng Road	Facility Address	24 Meng Road
	Schwenksville, PA 19473-1729		Schwenksville, PA 19473-1729
Applicant Contact	Michael Formica	Facility Contact	
Applicant Phone	(610) 674-3600	Facility Phone	
Client ID	373186	Site ID	860506
SIC Code	8811	Municipality	Lower Frederick Township
SIC Description	Services - Private Households	County	Montgomery
Date Application Rec	eived October 7, 2022	WQM Required	
Date Application Acc	epted	WQM App. No.	4622407

### **Summary of Review**

The applicant requests approval for NPDES Permit to discharge treated sewage from a small flow package treatment plant serving a 4-bedroom single residence on 2.08 acres, located at 24 Meng Road located in Schwenksville, Lower Frederick Township, Montgomery County. This system is to replace a failing on-lot system.

This project will generate 500 gallons of sewage per day to be treated by SFTF with a discharge to a drainage swale leading to an unnamed tributary of Swamp Creek.

The proposed treatment plant consists of the following treatment units:

- 1. 1300-gallon precast singular concrete Norweco singulair TNT500/600 tank with Norweco hydro-kinetic bio-film reactor (mixed film media).
- 2. Disinfection will be provided by Orenco UV Disinfection Unit.
- 3. The final discharge to the outfall will be using a 4"-PVC Sch 40, with riprap discharge channel.

The approval of this project is specifically made contingent that nitrogen-reducing treatment component meeting the NSF 245 criteria as part of the proposed SFTF. According to the application, TNT unit is NSF245 is a certified system used to treat Nitrogen

The design of the treatment doesn't comply with Small Flow Treatment Facilities Manual (Technical Guidance Number 362-0300-002) because of the use of mixed film media, therefore, this facility doesn't qualify for coverage under general permit (WQG01) and required to submit an Individual WQM permit application. The Design Engineer's Report stated that the proposed treatment plant will be able to meet the effluent limitations applicable to Individual Single Residence Sewage Treatment Plants.

Approve	Deny	Signatures	Date
Y		Vasantha	
^		Vasantha Palakurti / Environmental Engineering Specialist	November 3, 2022
		Pravin C. Patel, P.E. / Environmental Engineer Manager	

# **Summary of Review**

Act 537 Planning was approved on September 27, 2022 under DEP CODE No. 1-46933-111-3s. Permit may be issued.

#### Act 14 Notices:

Lower Frederick Township – September 29, 2022 Montgomery County Planning Commission - September 29, 2022

# **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 and Stream Data – 2 - Receiving Waters and PWS

ischarge, Receiving Waters and Water Supply	Information			
Outfall No. 001	Design Flow (MGD)	.0005		
Latitude 40º 16' 18.97"	Longitude	75º 28' 35.24"		
Quad Name	Quad Code			
Wastewater Description: Sewage Effluent				
Receiving Waters Swamp Creek (TSF, MF)	Stream Code	01309		
NHD Com ID <u>25987598</u>	RMI	0.2800		
Drainage Area	Yield (cfs/mi²)			
Q <sub>7-10</sub> Flow (cfs)	Q <sub>7-10</sub> Basis			
Elevation (ft)	Slope (ft/ft)			
Watershed No. 3-E	Chapter 93 Class.	TSF, MF		
Existing Use None	Existing Use Qualifier	N/A		
Exceptions to Use None	Exceptions to Criteria	N/A		
Assessment Status Attaining Use(s)				
Cause(s) of Impairment	·			
Source(s) of Impairment	·			
TMDL Status None Proposed	Name			

Changes Since Last Permit Issuance: N/A (new permit)

# **Development of Effluent Limits:**

Flow, BOD5, TSS and Fecal Coliform:

Limits for above mentioned parameters are derived from Standard Operating Procedure for New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications (SOP No. BCW-PMT-003). Minimum measuring frequency for all permit parameters will be required once per year in accordance with the SOP.

pH:

pH (6 – 9 STD units) is added to the permit.

UV is used for disinfectant.

Total Nitrogen: The approval of this project is specifically made contingent that nitrogen-reducing treatment component be part of the proposed SFTF. Therefore, Nitrogen is added to the permit to me monitored once a year.

# **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 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), SOPs and/or BPJ.

# Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

	Effluent Limitations					Monitoring Requirements		
Parameter	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum <sup>(2)</sup>	Required
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (GPD)	Report	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/year	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab