

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0245194
APS ID 1127432
Authorization ID 1509499

Applicant, Facility and Project Information

Applicant Name	<u>Leon A Grochowski Jr</u>	Facility Name	<u>Leon Grochowski SRSTP</u>
Applicant Address	<u>2224 Meadowbrook Drive</u> <u>Schnecksville, PA 18078</u>	Facility Address	<u>2408 Hill Road</u> <u>Sellersville, PA 18960</u>
Applicant Contact	<u>Leon Grochowski</u>	Facility Contact	<u>Leon Grochowski</u>
Applicant Phone	<u>(610) 442-3137</u>	Facility Phone	<u>(215) 362-4610</u>
Client ID	<u>355514</u>	Site ID	<u>835217</u>
SIC Code	<u>4952</u>	Municipality	<u>East Rockhill Township</u>
SIC Description	<u>Trans. & Utilities - Sewerage Systems</u>	County	<u>Bucks</u>
Date Application Received	<u>December 3, 2024</u>	WQM Required	<u>No</u>
Date Application Accepted	<u>December 19, 2024</u>	WQM App. No.	<u></u>
Project Description	<u>NPDES permit renewal application.</u>		


Summary of Review

The Pa Department of Environmental Protection (PaDEP/Department) received an NPDES permit renewal application from Penns Trail Environmental LLC (consultant) on behalf of Leon Grochowski (permittee) for permittee's SRSTP, located in East Rockhill Township, Bucks County. This is an SRSTP with a design flow of 800 GPD that discharges into an UNT to Three Mile Run (TSF, MF). The current permit will expire on May 31, 2025. The terms and conditions are automatically extended since the renewal application was received at least 180 days prior to the expiration date. Renewal NPDES permit application under Clean Water Program are not covered by PADEP's PDG per 021-2100-001. This fact sheet is developed in accordance with 40 CFR §124.56.

Changes to existing permit: BOD5 limits are replaced with CBOD5 limits. The facility type is changed from SFTF to SRSTP.

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
√		Reza H. Chowdhury, E.I.T. / Project Manager 	December 19, 2024
X		Pravin Patel Pravin C. Patel, P.E. / Environmental Engineer Manager	12/23/2024

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.0008
Latitude	40° 22' 56.22"	Longitude	-75° 19' 29.58"
Quad Name	Quakertown	Quad Code	1543
Wastewater Description: Sewage Effluent			
Receiving Waters	UNT to Three-mile Run (TSF, MF)	Stream Code	None
NHD Com ID	26053652	RMI	XXX
Nearest Downstream Public Water Supply Intake		None before the discharge reaches to Delaware River	
PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Changes Since Last Permit Issuance: Facility type is changed from SFTF to SRSTP

Other Comments:

The channel that runs to the UNT to Three mile Run and the UNT to Three Mile Run were evaluated in the field in summarized in an Aquatic Biology Investigation: Point of First Use study dated May 3, 2019. The UNT to Three Mile Run was also field evaluated and summarized in an Aquatic Biology Investigation: Point of First Use study dated December 6, 2017. The channel is located behind the existing property and was characterized as intermittent. The UNT to Three-mile Run was characterized as perennial and having aquatic life.

The UNT flows to the Three-mile Run (TSF, MF), which is listed as impaired. The cause of impairment is Flow Regime Modification, Nutrients. The source of impairment is Highway/Road/Bridge Runoff (non-construction related), Removal of Riparian vegetation.

Compliance History	
Summary of DMRs:	Two samples were collected and analyzed for the years 2020 and 2021. Both sample results show the parameters were within the permitted limits.
Summary of Inspections:	11/4/2020: AMR was submitted which shows an inspection was conducted in accordance with the O&M agreement.

Other Comments:

Treatment Plant Summary

The Leon Grochowski Properties SRSTP is in 2408 Hill Road, Sellersville, PA 18960 serving a 3-bedroom duplex residence. The residence has two units with a total 3 bedrooms. Per SOP BCW-PMT-033 (revised November 9, 2023), SRSTPs are a subset of SFTFs and are facilities for single homes with a typical design flow between 400 and 800 GPD. All SFTFs that are for multiple homes or for businesses with design flows of less than or equal to 2,000 GPD are called SFTFs. Based on this, the subject facility may be considered as an SRSTP since its serving a single home and the design flow is within SRSTP range. Therefore, the facility type will be changed from SFTF to SRSTP from this permit term.

The treatment facility is a packaged treatment consists of two (2) 2,000-gallon single compartment, concrete septic tanks in series fitted with a Zabel A300 Effluent Filter on the outlet of second tank. Primary settling and separation occurs with the septic tank. The effluent filter is intended to remove suspended solids from the effluent prior to entering the following component. Effluent is then discharged via gravity to an ECO-FLO Model ECDn1200C-P Bio-Filter. Effluent is distributed

over the treatment media provided physical and biological treatment. Effluent collects within a voided chamber beneath the media where it is then pumped through a pressure flow divided splitting discharge. Two-thirds of the discharge returns to the building sewer preceding the septic tank to facilitate the denitrification process. the remaining one-third of the effluent discharges through an Orenco Model UV-125/31-UVISUB Ultraviolet Disinfection unit. Treated effluent passes through the UV unit to provide disinfection before ultimately discharging via gravity to an UNT of the Three Mile Run, a Tributary of the East Branch Perkiomen Creek. Since the installed treatment process isn't listed as approved for coverage under a general permit, an individual NPDES permit was issued. The facility has an average annual design flow of 800 GPD.

Existing Limits

The following limits were applied to Outfall 001 for the period June 1, 2020 through May 31, 2025:

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
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9	1/year	Grab
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	XXX	XXX	1/year	Grab
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab

Development of effluent limitations

The following effluent limitations and monitoring requirements, at a minimum, will be established in all new and renewed SRSTP permits based on the requirements of DEP's "Standard Operating Procedure (SOP) for Clean Water Program New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Application" (SOP No. BCW-PMT-003, Version 1.8, Final, November 9, 2012, Revised November 9, 2023).

Parameter	Avg	IMAX	Sample Type	Frequency: SFTFs	Frequency: SRSTPs
Flow (GPD)	Report	XXX	Estimate (SRSTPs) Measured (SFTFs)	1/month	1/year
CBOD5 (mg/L)	10	20	Grab	1/month	1/year
TSS (mg/L)	10	20	Grab	1/month	1/year
TRC (mg/L) *	Report for SRSTPs; Use TRC Spreadsheet to determine WQBELs or 0.02 mg/L for SFTFs		Grab	1/month	1/year
Fecal Coliform (No./100 ml)	200 Geometric Mean (SFTFs) / Average (SRSTPs)		Grab	1/month	1/year

* This is an SRSTP with UV disinfection. The facility will not be required to measure TRC nor will be required to report UV dosage/intensity/transmittance.

Existing BOD5 limits will be replaced with CBOD5 to be consistent with the updated SOP. In addition to above limits, the following limit is in the existing permit and will be carried over:

pH:

The TBEL for pH is above 6.0 and below 9.0 S.U. (40 CFR §133.102(c) and Pa Code 25 §§ 95.2(1), 92a.47) which are existing limits and will be carried over.

Total Nitrogen:

Per the previous permit's fact sheet, the planning approval letter required a nitrogen-reducing treatment component. The proposed treatment has recirculating flow to reduce nitrogen. The previous permit as a TN reporting requirement which will be carried over in this renewal.

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.

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
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9	1/year	Grab
CBOD5	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	XXX	XXX	1/year	Grab
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab

Compliance Sampling Location: At Outfall 001

Other Comments: None