

 Application Type
 New

 Wastewater Type
 Sewage

 Facility Type
 SRSTP

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

 Application No.
 PA0292923

 APS ID
 1080804

 Authorization ID
 1426772

Applicant, Facility and Project Information

Applicant Name	Laura S	Schwanbeck	Facility Name	Laura Schwanbeck SRSTP			
Applicant Address	12831	Wheeler Place	Facility Address	5833 Cassady Road			
	Santa A	Ana, CA 92705-1130		Hermitage, PA 16148-6418			
Applicant Contact	Laura S	Schwanbeck	Facility Contact				
Applicant Phone	(724) 979-2366		Facility Phone				
Applicant Email	laura.ai	nn@roadrunner.com					
Client ID	375214		Site ID	861320			
SIC Code	8800		Municipality	Hermitage City			
SIC Description	Private Households		County	Mercer			
Date Application Recei	ved	February 13, 2023	WQM Required	Yes			
Date Application Accepted		February 23, 2023	WQM App. No.	4323404			
Project Description		Installation of a Single Resi	nstallation of a Single Residence Sewage Treatment Plant				

Summary of Review

This is a new discharge for an existing 5 bedrooms dwelling with proposed construction of a SRSTP to replace a malfunctioning on-lot sewage disposal system.

Proposed treatment will consist of (WQM Permit No. 4323404): A Norweco Singulair Bio-Kinetic Model 960-500/600 GPD wastewater treatment system with a Norweco Singulair Hydro-Kinetic Bio-Film Reactor. This system consists of two separate treatment tanks. The first tank has a volume of 1300 gallons and houses a 450-gallon pretreatment chamber, an extended aeration chamber with a Norweco Singulair Model 206C aerator and a final clarification chamber with a bio-kinetic system and a bio-static sludge return. The second tank houses a Hydro-Kinetic Bio-Film Reactor and an in line Norweco Model AT 1500 UV disinfection unit which will provide final disinfection of the effluent and a 500-gallon chamber. The system will then gravity flow to the proposed point of discharge at an unnamed tributary to Golden Run.

Act 14 – Proof of Notification was submitted and received. Act 537 Sewage Facilities Planning Module Component 3s was approved by the Department on February 2, 2023. cwy

SPECTIAL CONDITIONS: NONE

The EPA waiver is in effect.

Approve	Deny	Signatures	Date
Х		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer Trainee	February 23, 2023
х		Chad W. Yurisic Chad W. Yurisic, P.E. / Environmental Engineer Manager	March 6, 2023

Summary of Review

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

Discharge, Receiving Waters and Water Supply Information

Outfall No. 001			Design Flow (MGD)	.0006	
Latitude41° 15' 51.35"Quad NameSharpsville			Longitude	-80º 24' 15.55" 41080C4	
			Quad Code		
Wastewater Descri	ption:	Sewage Effluent			
	Linno	med Tributary to Golden Ru			
Receiving Waters	(WWF		Stream Code	36042	
NHD Com ID	13003	34187	 RMI	0.9900	
Drainage Area	0.25		Yield (cfs/mi ²)	0.1	
Q ₇₋₁₀ Flow (cfs)	0.025		Q ₇₋₁₀ Basis	Default	
Elevation (ft)	1086		Slope (ft/ft)		
Watershed No.	20-A		Chapter 93 Class.	WWF	
Existing Use			Existing Use Qualifier		
Exceptions to Use			Exceptions to Criteria		
Assessment Status		Attaining Use(s)			
Cause(s) of Impairr	nent				
Source(s) of Impair	ment				
TMDL Status			Name		
Background/Ambie	nt Data		Data Source		
pH (SU)		7	Default		
Temperature (°F)		25	Default		
Hardness (mg/L)		100	Default		
Other:					
Nearest Downstrea	m Publi	c Water Supply Intake	Aqua Pennsylvania, Inc. – Sh	enango Valley	
		go River	Flow at Intake (cfs)	97	
	30	•	Distance from Outfall (mi)	10.74 (Apploximately)	

Changes Since Last Permit Issuance: N/A -This is a proposed discharge (Planning was approved on February 2, 2023)

Other Comments: This SRSTP was designed where applicable in accordance with the SFTF Manual, but it does not qualify for the PAG-04 General Permit due to the use of a Norweco Singulair Bio-Kinetic Model 960-500/600 Aerobic Treatment unit with a Norweco Singulair Hydro-Kinetic Bio-Film Reactor.

The Norweco Singulair Bio-Kinetic Model 960-500/600 Aerobic Treatment unit is reportedly capable of meeting CBOD5 averages of 10 mg/L and TSS averages of 10 mg/L.

In accordance with the SOP, no water quality modeling was performed since this is a SRSTP.

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.

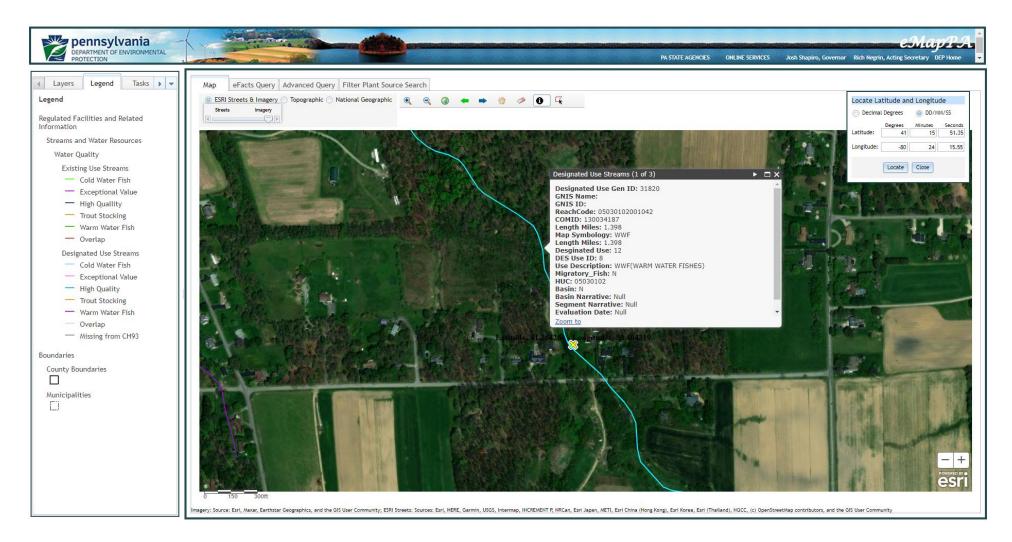
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

	Effluent Limitations					Monitoring Requirements		
Parameter	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾	Required
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (GPD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
рН (S.U.)	ххх	XXX	6 Inst Min	XXX	xxx	9	Upon Request	Grab
BOD5	ххх	xxx	xxx	10	xxx	20	1/year	Grab
TSS	xxx	xxx	xxx	10.0	xxx	20	1/year	Grab
Fecal Coliform (No./100 ml)	ххх	XXX	XXX	200	xxx	xxx	1/year	Grab

Compliance Sampling Location: Outfall 001, after UV Disinfection.

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD5, Total Suspended Solids are BPJ-based on the Department's "Small Flow Treatment Facilities Manual." Fecal Coliform are technology-based on Chapter 92a.47. The limits for pH are technology-based on Chapter 93.7.

Outfall Location - eMap with Aerial Imagery



Drainage Area Location – StreamStats with Aerial Imagery

StreamStats Report



Collapse All

> Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.25	square miles