pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southwest Regional Office
CLEAN WATER PROGRAM

Application Type	**New**	Application No.	**PA0285307**
Wastewater Type	**Sewage**	APS ID	**1110059**
Facility Type	**SRSTP**	Authorization ID	**1477938**

NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP

Applicant, Facility and Project Information

Applicant Name	**Lori Sines**	Facility Name	**Sines SRSTP**
Applicant Address	1300 Buckstown Road	Facility Address	1300 Buckstown Road
	Stoystown, PA 15563-8811		Stoystown, PA 15563-8811
Applicant Contact	Lori Sines	Facility Contact	Same as applicant
Applicant Phone	(814) 289-7852	Facility Phone	Same as applicant
Client ID	384725	Site ID	731423
SIC Code	8800	Municipality	Stonycreek Township
SIC Description	Private Households	County	Somerset
Date Application Received	March 20, 2024	WQM Required	yes
Date Application Accepted	March 25, 2024	WQM App. No.	5610406 T-2

Project Description: Transfer and Renewal of a NPDES sewage permit

Summary of Review

This facility was previously covered under NPDES Permit No. PA0254363. This permit was previously issued by the Department on April 1, 2019 and expired on March 31, 2024. This permit covered two separate facilities that shared a common outfall. The permittee requested that their facility be separated and covered under its own permit due to compliance issues with the facility they shared an outfall with. This facility will now be covered under NPDES Permit number PA0285307. The other owner will retain the original permit number.

This facility is a single residence sewage treatment plant (SRSTP) composed of:

- 1000 gallon two compartment septic tank
- Polylok PL-625 effluent filter
- ST-650 Ecoflo Biofilter
- A 748 ft2 subsurface sand filter
- Norweco Model 1500 UV disinfection system

At this time Lori Sines does not have open unresolved violations that would prohibit the permit transfer.

Associated WQM permit number 5610406 is also pending transfer upon approval from the department

Per the *Small Flow Treatment Facilities Manual* (385-2188-005), this facility does not qualify for a general permit.

It is recommended that the permit be renewed and transferred.

Approve	Deny	Signatures	Date
X		Jordan T Coldsmith Jordan Coldsmith / Environmental Engineering Specialist	April 2, 2024
X		Christopher Kriley, P.E. / Program Manager	April 8, 2024

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)	.0004
Latitude	40º 3' 19.18"	Longitude	-78º 52' 32.65"
Quad Name	Stoystown	Quad Code	40078A8
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary of Rhoads Creek (CWF)	Stream Code	45763
NHD Com ID	123723736	RMI	0.3700
Drainage Area	0.32	Yield (cfs/mi^2)	0.05
Q_{7-10} Flow (cfs)	0.0167	Q_{7-10} Basis	USGS StreamStat
Elevation (ft)	2456	Slope (ft/ft)	
Watershed No.	18-E	Chapter 93 Class.	CWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	METALS		
Source(s) of Impairment	ACID MINE DRAINAGE		
TMDL Status	Final	Name	Kiskiminetas-Conemaugh River Watersheds TMDL

Background/Ambient Data		Data Source
pH (SU)		
Temperature (°F)		
Hardness (mg/L)		
Other:		

Nearest Downstream Public Water Supply Intake	HOOVERSVILLE MUNI AUTH		
PWS Waters	Stonycreek River (TSF)	Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	16.9

Changes Since Last Permit Issuance: N/A

Other Comments:

This discharge is tributary to the Kiskiminetas-Conemaugh River Watersheds that has a Final TMDL and is impaired by metals. This sewage discharge is not expected to contribute to the stream impairment for which abandoned mine drainage is source of such impairment. No WLAs have been developed for this sewage discharge and they are not expected to contribute to the stream impairment for these pollutants. No limitations or monitoring requirements for iron, manganese, or aluminum will be placed on this SRSTP, as flows from SRSTP are considered insignificant.

Treatment Facility Summary				
Treatment Facility Name: Sines Properties SRSTP				
WQM Permit No.	**Issuance Date**			
5610406 T-2	04/19/2019			
Waste Type	**Degree of Treatment**	**Process Type**	**Disinfection**	**Avg Annual Flow (MGD)**
Sewage			UV	0.0004
Hydraulic Capacity (MGD)	**Organic Capacity (lbs/day)**	**Load Status**	**Biosolids Treatment**	**Biosolids Use/Disposal**
0.0004		Not overloaded		

Changes Since Last Permit Issuance: none

Other Comments: the facility's treatment process consists of:

- 1000 gallon two compartment septic tank
- Polylok PL-625 effluent filter
- ST-650 Ecoflo Biofilter
- A 748 ft2 subsurface sand filter
- Norweco Model 1500 UV disinfection system

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .0004
Latitude 40º 3' 18.00" **Longitude** -78º 52' 32.00"
Wastewater Description: Sewage Effluent

Technology-Based Limitations

The following effluent limitations and monitoring requirements, at a minimum, will be established in all new and renewed SFTF 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 May 17, 2019).

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
pH*	6.0 S.U. Inst. Min.	9.0 S.U.	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

***** Technology-Based effluent limits for pH will be imposed based upon Federal Regulation 133.102(c) and State Regulation 95.2(1).

Additional Considerations:

Ultraviolet (UV) disinfection is used, and therefore, Total Residual Chlorine (TRC) limits are not applicable. Current policy does not require SFTFs to monitor for UV Intensity

SFTFs/SRSTPs are not required to monitor for Total Nitrogen and Total Phosphorus in new and reissued permits.

This discharge is tributary to the Kiskiminetas-Conemaugh River Watersheds that has a Final TMDL and is impaired by metals. This sewage discharge is not expected to contribute to the stream impairment for which abandoned mine drainage is source of such impairment. No WLAs have been developed for this sewage discharge and they are not expected to contribute to the stream impairment for these pollutants. No limitations or monitoring requirements for iron, manganese, or aluminum will be placed on this SRSTP, as flows from SRSTP are considered insignificant.

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.

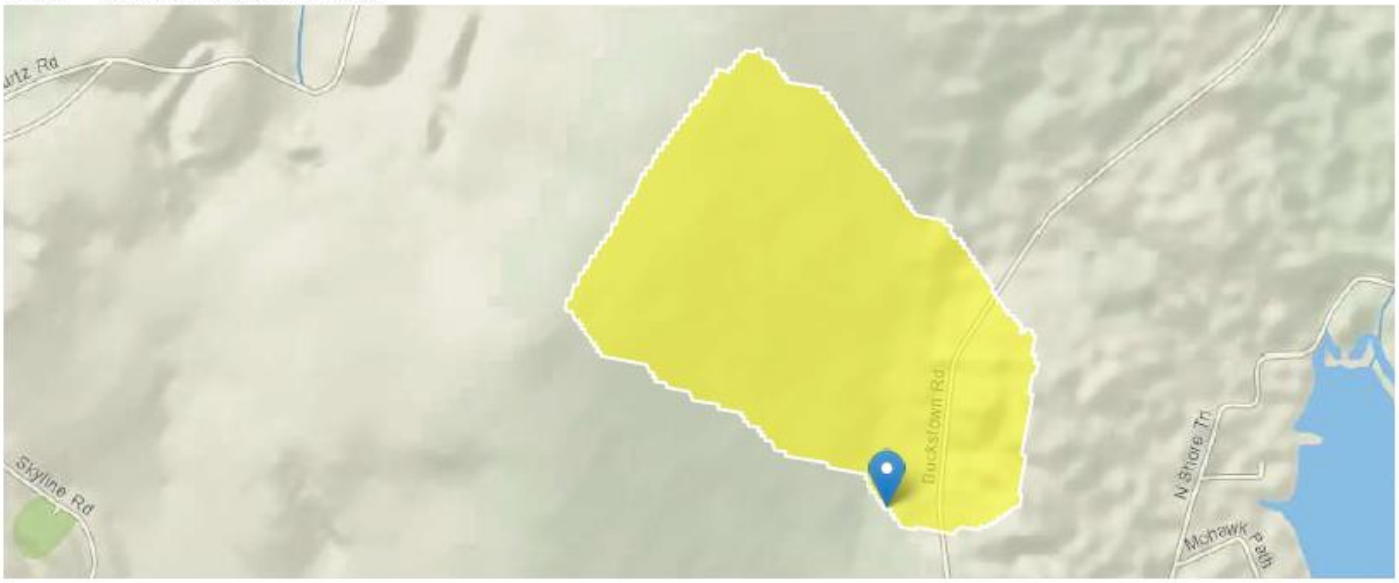
Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (GPD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/year	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200.0	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001

Other Comments: None

StreamStats Report

Region ID: PA
Workspace ID: PA20240403144129829000
Clicked Point (Latitude, Longitude): 40.05534, -78.87576
Time: 2024-04-03 10:41:51 -0400



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.32	square miles
ELEV	Mean Basin Elevation	2456	feet
PRECIP	Mean Annual Precipitation	43	inches

Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 3]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.32	square miles	2.33	1720
ELEV	Mean Basin Elevation	2456	feet	898	2700
PRECIP	Mean Annual Precipitation	43	inches	38.7	47.9

Low-Flow Statistics Disclaimers [Low Flow Region 3]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Low-Flow Statistics Flow Report [Low Flow Region 3]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.0444	ft^3/s

Statistic	Value	Unit
30 Day 2 Year Low Flow	0.0649	ft^3/s
7 Day 10 Year Low Flow	0.0167	ft^3/s
30 Day 10 Year Low Flow	0.0232	ft^3/s
90 Day 10 Year Low Flow	0.0353	ft^3/s

Low-Flow Statistics Citations

Stuckey, M.H.,2006, Low-flow, base–flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (http://pubs.usgs.gov/sir/2006/5130/)