Pennsylvania Department of Environmental Protection

Northcentral Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0209155**
Wastewater Type	**Sewage**	APS ID	**1136964**
Facility Type	**SFTF**	Authorization ID	**1526606**

NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP

Applicant, Facility and Project Information

Applicant Name	**Sorge, Sandro**	Facility Name	**Sandro Sorge Apartments**
Applicant Address	1019 W Front Street	Facility Address	Spruce Run Road
	Berwick, PA 18603-4509		Millville, PA 17846
Applicant Contact	Sandro Sorge	Facility Contact	Alec Engleman (Operator)
Applicant Phone	570-784-7540	Facility Phone	570-246-4247
Client ID	44761	Site ID	245338
SIC Code	6513	Municipality	Madison Township
SIC Description	Fin, Ins & Real Est - Apartment Building Operators	County	Columbia
Date Application Received	May 9, 2025	WQM Required	No
Date Application Accepted	May 12, 2025	WQM App. No.	1995403
Project Description	Renewal of a NPDES Permit		

Summary of Review

The subject treatment facility serves an apartment building and trailer in Madison Township, Columbia County. A map of the discharge location is attached.

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
✓		Keith C. Allison Keith C. Allison / Project Manager	October 14, 2025
✓		N. W. H. Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	October 14, 2025

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.002
Latitude	41º 6' 39"	Longitude	-76º 33' 18.3"
Quad Name	Millville, PA	Quad Code	1033
Wastewater Description:	Sewage Effluent		
Receiving Waters	Spruce Run (CWF)	Stream Code	27671
NHD Com ID	65639049	RMI	2.95
Drainage Area	4.78 mi^2	Yield (cfs/mi^2)	0.051
Q_{7-10} Flow (cfs)	0.244	Q_{7-10} Basis	USGS Gage 01552000, Loyalsock Creek@ Loyalsockville, PA (1927-2008)
Elevation (ft)	674	Slope (ft/ft)	Undetermined
Watershed No.	5-C	Chapter 93 Class.	CWF
Existing Use	N/A	Existing Use Qualifier	N/A
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Attaining Use(s)		
Nearest Downstream Public Water Supply Intake	Veolia Water, PA		
PWS Waters	Fishing Creek	Flow at Intake (cfs)	18.47
PWS RMI	2.54	Distance from Outfall (mi)	10.63

Changes Since Last Permit Issuance: The above stream and drainage characteristics are adequate and are unchanged from previous reviews.

Other Comments: None

Treatment Facility
The treatment facility, as permitted under WQM permit application No. 1995403, consists of a compartment septic tank (serving only the apartment building), Nayadic aerobic treatment tank, dosing tank with Zabel effluent filter, 400 square foot free access sand filter, tablet chlorinator, and chlorine contact tank.

Compliance History	
Summary of DMRs/AMRs:	A review of the DMRs for the facility discharges for the past year found no effluent violations.
Summary of Inspections:	The most recent inspection of the facility by the Department found no violations at the time of inspection.
Other Comments:	There are no open violations in eFACTS for Sandro Sorge.

Existing Effluent Limitations and Monitoring Requirements								
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**	**Average Monthly**	**Maximum**	**Instant. Maximum**		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
TRC	XXX	XXX	XXX	0.5	XXX	0.75	1/month	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/month	Grab

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.

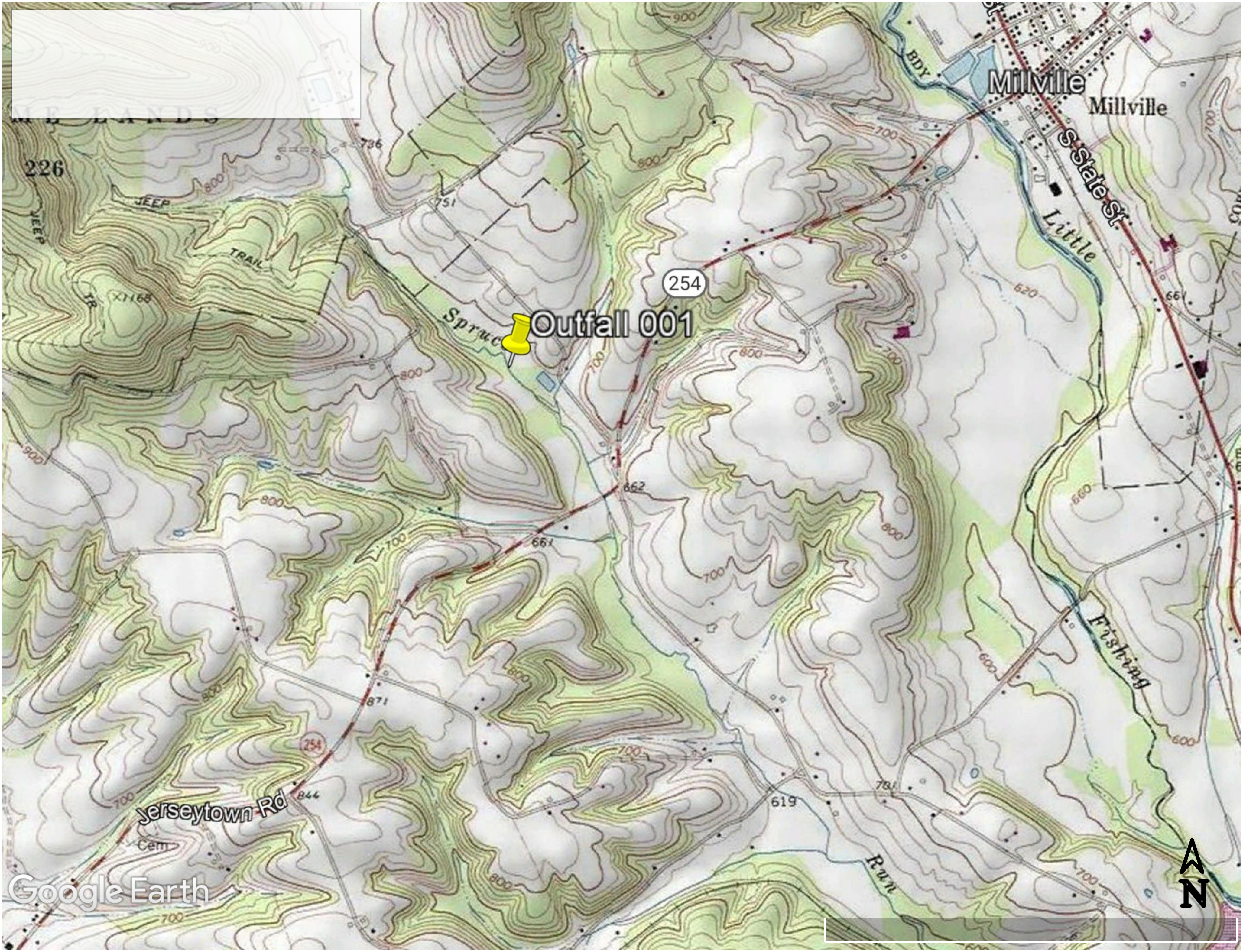
Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
TRC	XXX	XXX	XXX	0.5	XXX	0.75	1/month	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/month	Grab

Compliance Sampling Location: Outfall 001

Other Comments: The above limitations and monitoring requirements are consistent with the Department's typical requirements for SFTFs except for pH monitoring and limits which are not typically required for SFTFs and will be removed at this time. Also, the TRC IMAX of 0.75 mg/L is not typical but is from the previous modeling (See Attached) and will remain. These effluent limitations are adequate to protect the receiving waters.

Attachment:

A. Discharge Location Map
B. TRC Model



Millville
Millville
S State St
Little
Fishing
Run
Outfall 001
254
Spruc
JEEP
TRAIL
TR
226
BDY
Jerseytown Rd
Cem
Google Earth
N

TRC EVALUATION

Client	Sorge SFTF	0<1te	05/20/2015
0.244	= Q stream (cfs)	0,5	= CV Dailv
(l.002	= Q discharae MGDl ••	0.5	CV Hourly
1	= no. samples	1	= AFC Partial **Mix** Factor
0.3	= Clilorine Demand of Stream	1	CFC f>artlal **Mix** Factcir
0	**= Chlorine Demand of Discharae**	**15**	**= AFC ·criterhi Compliance Time !min)**
0.5	**= BAT/1;3PJ Value**	**120**	**CFC Criteria Compliance Time (min)**
0	**= % Factor of Safety (FOS).**	**(j**	**=Decay Coefficient (K)** • •

Source	Reference	AFC Calculations		Reference	CFC Calculations	
TRC	**1.3.2.iii**	WLAafc =	25.176	**1.3.2.iii**	WLAcfc=	24.537
Pt:NTOXSD TRG	**S.1a**	LTAMULTafc=	0.373	**5.1c**	LTAMULTcfc=	o:581
Pt:NTOXSD TRG	**5.1b**	LTA afc=	9.381	**5.1d**	LTA cfc=	14.265
		WQBEL afc=	**25.176**		WQBEL cfc=	38.282

Source		Effluent Limit Calculations	
PENTOXSD TRG	5.1f	AML MULT = 2.684	
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l)= 0.500	BATIBPJ
		INST MAX LIMIT (mg/l)= 0.750	

WLAafc	**(.019/e(-k'AFC_tc))** + **[(AFC_Yc'Qs'.019/Qd'e(-k'AFC_tc**))... ...+ **Xd** + **(AFC_Yc'Qs'Xs/Qd)]'(1-FOS/100)**
LTAMULTafc	EXP((0.5'LN(cvh'2+1))-2.326'LN(cvh'2+1)'0.5)
LTA_afc	wla_afc'LTAMULT_ale
WLA_cfc	**(.011/e(-k'CFC_tc)** + **[(CFC_Yc*Qs*.011/Qd'e(-k*CFC_tc)**)... ...+ **Xd** + **(CFC_Yc*Qs*Xs/Qd)]'(1-FOS/100)**
LTAMULT_cfc	EXP((0.5'LN(cvd'2Ino_samples+1))-2.326*LN(cvcj'21no_samples+1)'0.5)
LTA_cf<;	wla_cfc*LTAMULT_cfc
AML MULT	EXP(2.326'LN((cvd'21no_sampies+1)AO.5)-0.5'LN(cvd'2/no_sampies+1))
AVG MON LIMIT	MIN(BAT_BPJ,MIN(LTA_afc,LTA_cfc)*AML_MULT)
INST MAX LIMIT	1.5'((av_mon_limiUAML_MULT)/LTAMULT_afc)