Pennsylvania Department of Environmental Protection

Southwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0252476**
Wastewater Type	**Sewage**	APS ID	**1141477**
Facility Type	**SFTF**	Authorization ID	**1534070**

NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP

Applicant, Facility and Project Information

Applicant Name	**Alexander Shuppe & Associates, Inc.**	Facility Name	**Shuppe Rentals Trailer Park SFTF**
Applicant Address	PO Box 218	Facility Address	SR 2010 - 380 Budapest Road
	Dilliner, PA 15327-0218		Dillner, PA 15327
Applicant Contact	Alexander Shuppe	Facility Contact	Same as Applicant
Applicant Phone	(724) 943-3258	Facility Phone	Same as Applicant
Client ID	208879	Site ID	613666
SIC Code	4952	Municipality	Dunkard Township
SIC Description	Trans. & Utilities - Sewerage Systems	County	Greene
Date Application Received	July 15, 2025	WQM Required	N/A – Only required for new facilities.
Date Application Accepted		WQM App. No.	3004401 (Issued 10/12/2004)

Project Description: Application for the renewal of an NPDES permit for the discharge of treated Sewage.

Summary of Review

Introduction

The Applicant has applied for the renewal of NPDES Permit No. PA0252476, which was previously issued on November 10, 2020, and expires on November 30, 2025.

Facility Overview

WQM Permit No. 3004401 (Issued 10/12/2004) authorized construction of a STP with an annual average design flow of 0.0045 MGD. The design organic capacity of the STP is 6.75 lbs/day. Planning approval for this facility only approved an annual average design flow of 0.002 MGD. The plant was over designed to accommodate a higher flow if such a need occurs.

The highest monthly average flow from past years was 0.0018 MGD. The applicant is aware that planning and an NPDES Permit Amendment is needed to increase the annual average design flow.

Treatment is provided by an existing facility consisting of two septic tanks in series, a dosing tank, two intermittent sand filters, and a chlorine contact tank with tablet chlorination and tablet de-chlorination.

The discharge is to UNT to Dunkard Creek, which is designated as a Warm Water Fishery (WWF) per 25 Pa. Chapter 93 Designated Use, located in State Watershed 19-G.

Approve	Deny	Signatures	Date
X		William C. Mitchell, E.I.T. / Project Manager	November 18, 2025
X		Christopher Kriley, P.E. / Program Manager	November 19, 2025

Summary of Review

Summary of Changes Since Last Permit Issuance

- Effluent limits were established based upon requirements of SOP NO. BCW-PMT-003, New and Reissuance SFTF Individual NPDES Permits Applications.
- WQBEL for TRC established per TRC_CALC Spreadsheet (**Attachment 2**) & consistent with SOPs.

Sludge use and disposal description and location(s): All sludge is hauled away by R&D Watters Incorporated. Liquid sludge was last hauled away on May 13, 2025.

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, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.002
Latitude	39º 45' 29.00"	Longitude	-79º 57' 15.00"
Quad Name	Masontonw	Quad Code	2006
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary to Dunkard Creek (WWF)	Stream Code	41424
NHD Com ID	99418598	RMI	1.94
Drainage Area	0.29	Yield (cfs/mi^2)	0.00562
Q_{7-10} Flow (cfs)	0.00163	Q_{7-10} Basis	USGS StreamStats Report (**Attachment 1**)
Elevation (ft)		Slope (ft/ft)	
Watershed No.	19-G	Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use	NONE	Exceptions to Criteria	NONE
Assessment Status	Impaired		
Cause(s) of Impairment	METALS		
Source(s) of Impairment	ACID MINE DRAINAGE		
TMDL Status		Name	

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

Nearest Downstream Public Water Supply Intake		Southwestern PA Water Authority	
PWS Waters	Monongahela River	Flow at Intake (cfs)	530
PWS RMI	71.3	Distance from Outfall (mi)	

Changes Since Last Permit Issuance: None

Other Comments: N/A

Compliance History

Operations Compliance Check Summary Report

Facility: SHUPPE RENTALS TRAILER PARK

NPDES Permit No.: PA0252476

Compliance Review Period: 11/1/20-11/17/25

Inspection Summary:

INSPECTED DATE	INSP TYPE	AGENCY	INSPECTION RESULT DESC
01/31/2024	Administrative/File Review	PA Dept of Environmental Protection	Violation(s) Noted
08/12/2021	Administrative/File Review	PA Dept of Environmental Protection	Violation(s) Noted
03/04/2021	Compliance Evaluation	PA Dept of Environmental Protection	Administratively Closed
02/26/2021	Administrative/File Review	PA Dept of Environmental Protection	Violation(s) Noted

Violation Summary:

VIOLATION DATE	VIOLATION TYPE	VIOLATION TYPE DESC	RESOLVED DATE	VIOLATION COMMENT
01/31/2024	92A.62	NPDES - Failure to pay annual fee	02/05/2024	
08/12/2021	92A.44	NPDES - Violation of effluent limits in Part A of permit	08/12/2021	
02/26/2021	92A.44	NPDES - Violation of effluent limits in Part A of permit	08/12/2021	Facility has reported numerous effluent violations in recent years.

Open Violations by Client ID:

No open violations for Client ID 208879

Enforcement Summary:

ENF TYPE	ENF TYPE DESC	EXECUTED DATE	VIOLATIONS	AMOUNT RECEIVED	ENF FINALSTATUS	ENF CLOSED DATE
NOV	Notice of Violation	01/31/2024	92A.62		Comply/Closed	02/05/2024
CACP	Consent Assessment of Civil Penalty	08/11/2021	92A.44	$4,000.00	Comply/Closed	08/12/2021

Effluent Violation Summary:

MON PD	PARAMETER	REPORTED VALUE	PERMIT LIMIT	UNIT	STAT_BASE_CODE
Apr-25	Ammonia-Nitrogen	9.8	7.4	mg/L	Average Monthly
Oct-24	Dissolved Oxygen	3.9	4	mg/L	Instantaneous Minimum
May-24	Fecal Coliform	836	200	No./100 ml	Geometric Mean
Jul-22	Dissolved Oxygen	2.9	4	mg/L	Instantaneous Minimum
Feb-22	Ammonia-Nitrogen	11.2	7.4	mg/L	Average Monthly
Dec-21	Ammonia-Nitrogen	8.8	7.4	mg/L	Average Monthly
Nov-21	Dissolved Oxygen	3.3	4	mg/L	Instantaneous Minimum
Jul-21	Dissolved Oxygen	3.7	4	mg/L	Instantaneous Minimum
May-21	Dissolved Oxygen	3.5	4	mg/L	Instantaneous Minimum
May-21	Fecal Coliform	580	200	No./100 ml	Geometric Mean
Apr-21	Dissolved Oxygen	3.5	4	mg/L	Instantaneous Minimum
Feb-21	Fecal Coliform	8800	2000	No./100 ml	Geometric Mean
Jan-21	Ammonia-Nitrogen	9.4	7.4	mg/L	Average Monthly
Jan-21	Fecal Coliform	17300	10000	No./100 ml	Instantaneous Maximum
Jan-21	Fecal Coliform	17300	2000	No./100 ml	Geometric Mean
Dec-20	Ammonia-Nitrogen	10.8	7.4	mg/L	Average Monthly
Nov-20	Fecal Coliform	6700	2000	CFU/100 ml	Geometric Mean

Other Non-Compliances:

eDMRs were submitted late during the following monitoring periods:

Sep-25
Jul-25
Apr-25
Mar-25
Feb-25
Dec-24
Nov-24
May-24
Apr-24
Dec-23
Nov-23
Oct-23
Aug-23
Jun-23
Nov-22
Feb-21

Compliance Status: Effluent exceedances and non-compliances have been reported since the 2021 recent compliance evaluation inspection and enforcement action. These will be addressed at the time of the next Compliance Evaluation Inspection. There are currently no open violations or pending enforcement actions.

Completed by: Amanda Illar

Completed date: 11/17/25

Additional Comments by Clean Water Permit Writer: Facilities of this type (septic tanks with sand filtration and no aeration) will have problems consistently comply with DO (needs aeration) and Ammonia-Nitrogen (needs biological treatment like nitrification and denitrification) effluent limits. New effluent limits are being established in this permit consistent with SOPs for Individual SFTFs.

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.0004
Latitude 39º 45' 29.00" **Longitude** -79 57' 15.00"
Wastewater Description: Sewage Effluent

Technology-Based Limitations

The discharge was previously modeled using WQAM63 to evaluate CBOD5, Ammonia Nitrogen, and DO. Model WQAM63 and criterion in that model is no longer valid.

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 SOP NO. BCW-PMT-003, New and Reissuance SFTF Individual NPDES Permits Applications.

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 (TRC Spreadsheet Recommends Avg Monthly WQBEL of 0.08 mg/L)		Grab	1/month	1/month
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).

Comments: eDMR data indicates that this facility can comply with the revised limits for CBOD5, TSS, and TRC.

Additional Considerations:

Sewage discharges with design flows less than or equal to 2,000 gpd are not required to monitoring for Total Nitrogen and Total Phosphorus in new and reissued permits. The receiving stream is not impaired for nutrients.

The applicant uses eDMR.

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
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
TRC	XXX	XXX	XXX	0.08	XXX	0.28	1/month	Grab
CBOD5	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	1000	1/month	Grab

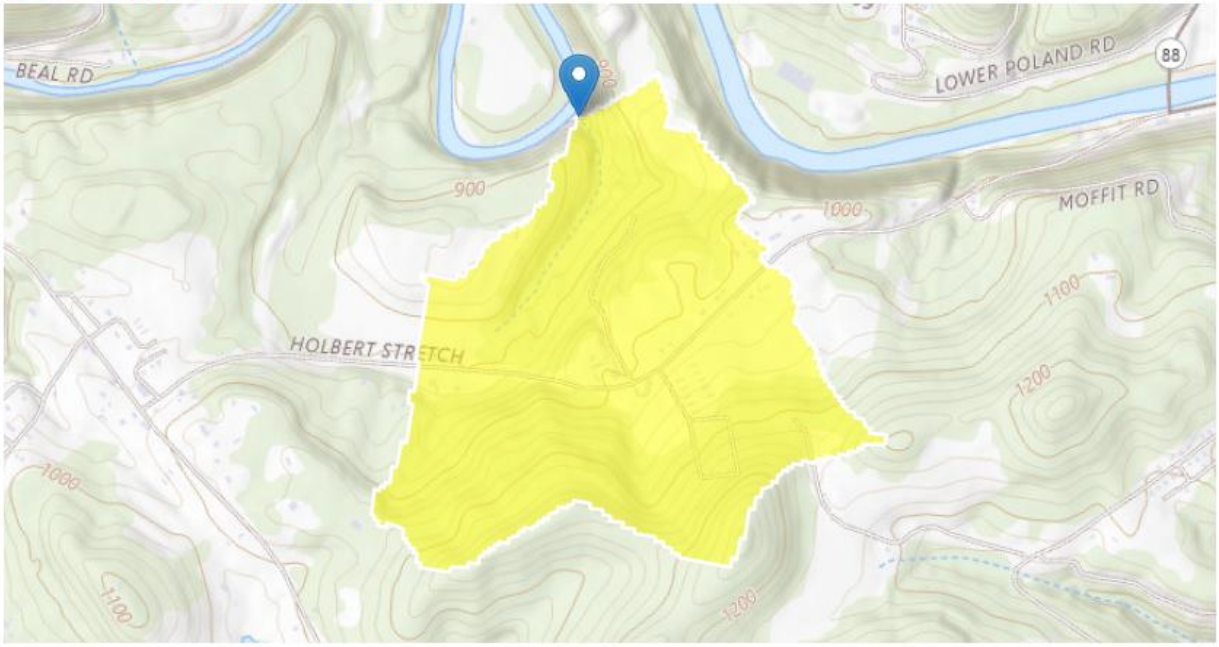
Compliance Sampling Location: Outfall 001

Other Comments: N/A

Attachment 1 – USGS StreamStats

StreamStats Report

Region ID: PA
Workspace ID: PA20251113161214705000
Clicked Point (Latitude, Longitude): 39.76374, -79.95438
Time: 2025-11-13 11:12:37 -0500



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.29	square miles
ELEV	Mean Basin Elevation	1027	feet

Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.29	square miles	2.26	1400
ELEV	Mean Basin Elevation	1027	feet	1050	2580

Low-Flow Statistics Disclaimers [Low Flow Region 4]

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 4]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.00602	ft^3/s
30 Day 2 Year Low Flow	0.0122	ft^3/s
7 Day 10 Year Low Flow	0.00163	ft^3/s
30 Day 10 Year Low Flow	0.00379	ft^3/s
90 Day 10 Year Low Flow	0.00795	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/)

Application Version: 4.29.3
StreamStats Services Version: 1.2.22
NSS Services Version: 2.2.1

Attachment 2 – TRC Spreadsheet

TRC_CALC

TRC EVALUATION

Input appropriate values in A3:A9 and D3:D9

0.00163	= Q stream (cfs)	0.5	= CV Daily
0.002	= Q discharge (MGD)	0.5	= CV Hourly
30	= no. samples	1	= AFC_Partial Mix Factor
0.3	= Chlorine Demand of Stream	1	= CFC_Partial Mix Factor
0	= Chlorine Demand of Discharge	15	= AFC_Criteria Compliance Time (min)
0.5	= BAT/BPJ Value	720	= CFC_Criteria Compliance Time (min)
0	= % Factor of Safety (FOS)		=Decay Coefficient (K)

Source	Reference	AFC Calculations	Reference	CFC Calculations
TRC	1.3.2.iii	WLA afc = 0.187	1.3.2.iii	WLA cfc = 0.175
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373	5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 0.070	5.1d	LTA_cfc = 0.102

Source		Effluent Limit Calculations	
PENTOXSD TRG	5.1f	AML MULT = 1.231	
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.086	AFC
		INST MAX LIMIT (mg/l) = 0.281	

WLA afc	(.019/e(-k*AFC_tc)) + [(AFC_Yc*Qs*.019/Qd*e(-k*AFC_tc))...
	...+ Xd + (AFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)
LTAMULT afc	EXP((0.5*LN(cvh^2+1))-2.326*LN(cvh^2+1)^0.5)
LTA_afc	wla_afc*LTAMULT_afc
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^2/no_samples+1))-2.326*LN(cvd^2/no_samples+1)^0.5)
LTA_cfc	wla_cfc*LTAMULT_cfc
AML MULT	EXP(2.326*LN((cvd^2/no_samples+1)^0.5)-0.5*LN(cvd^2/no_samples+1))
AVG MON LIMIT	MIN(BAT_BPJ,MIN(LTA_afc,LTA_cfc)*AML_MULT)
INST MAX LIMIT	1.5*((av_mon_limit/AML_MULT)/LTAMULT_afc)