

Application Type Renewal
 Facility Type Non-Municipal
 Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0063851
 APS ID 827581
 Authorization ID 1314251

Applicant and Facility Information

Applicant Name	<u>Sweet Valley Mobile Home Village</u>	Facility Name	<u>Sweet Valley MHP</u>
Applicant Address	<u>100 Swale Brook Lane</u> <u>Milford, PA 18337</u>	Facility Address	<u>First Lane Sweet Valley MHV</u> <u>Hunlock Creek, PA 18621-2940</u>
Applicant Contact	<u>Lisa Dalavai</u>	Facility Contact	<u>Carl Yorina</u>
Applicant Phone	<u>(570) 362-8292</u>	Facility Phone	<u>(570) 362-8292</u>
Client ID	<u>52159</u>	Site ID	<u>1031</u>
Ch 94 Load Status		Municipality	<u>Ross Township</u>
Connection Status		County	<u>Luzerne</u>
Date Application Received	<u>May 1, 2020</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>May 1, 2020</u>	If No, Reason	
Purpose of Application	<u>Renewal of an existing Permit for treated Sewage</u>		

Summary of Review

The application is for a renewal of an NPDES permit for an existing discharge of treated Sewage from Outfall 001 based on a design flow of .01 MGD. In 2019 their Annual average flow was 0.0032 MGD. The receiving stream Lewis Run (CWF, MF), is located in State Water Plan watershed 5-B and is classified for Cold Water Fishes and Migratory Fishes, aquatic life, water supply and recreation. Per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than the designated use. The discharge is not expected to affect public water supplies.

The effluent limits for CBOD5, TSS, pH, and Fecal Coliform are technology-based requirements. The Dissolved Oxygen, Ammonia, and Nitrate-Nitrite are water quality based and remain unchanged. Disinfectant is by UV and an as needed TRC IMAX of 0.588 is retained.

The Existing Permit expired on 07/31/2020 and the renewal was submitted May 1, 2020.

Sludge use and disposal description and location(s): Wyoming Valley Sewer Authority

The WMS "Open Violations by Client Report" was run and there are six Open Violations listed on the next page.

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

Approve	Deny	Signatures	Date
X		Bernard Feist (signed) Bernard Feist, P.E. / Environmental Engineer	December 6, 2021
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Environmental Engineer Manager	1-3-22

Summary of Review

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.

Open Violations

VIOLATION DATE	VIOLATION CODE	VIOLATION	PF INSPECTOR	IN
09/21/2018	92A.41(A)5	NPDES - Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance	LACZI,CHRIS	
05/11/2020	92A.75(A)	NPDES - Failure to submit NPDES renewal application at least 180 days prior to expiration or later approved date	LACZI,CHRIS	
05/11/2020	92A.44	NPDES - Violation of effluent limits in Part A of permit	LACZI,CHRIS	
05/11/2020	92A.41(A)12B	NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports	LACZI,CHRIS	
05/11/2020	92A.41(A)5	NPDES - Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance	LACZI,CHRIS	
10/07/2021	92A.62	NPDES - Failure to pay annual fee	LACZI,CHRIS	

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.01
Latitude	41° 17' 48.12"	Longitude	-76° 6' 41.70"
Quad Name		Quad Code	
Wastewater Description: Sewage Effluent			
Receiving Waters	Lewis Run (CWF, MF)	Stream Code	28312
NHD Com ID	65633751	RMI	3.60
Drainage Area	0.33	Yield (cfs/mi ²)	.069
Q ₇₋₁₀ Flow (cfs)	0.023	Q ₇₋₁₀ Basis	DFlow - Gage 1539000
Elevation (ft)	1232	Slope (ft/ft)	
Watershed No.	5-B	Chapter 93 Class.	CWF, MF
Existing Use	na	Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s) :CWF		
Cause(s) of Impairment	na		
Nearest Downstream Public Water Supply Intake	Danville Municipal Water Auth ID# 101934-001		
PWS Waters	Susquehanna River	Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	@ 50 mi


Changes Since Last Permit Issuance: none

Other Comments: This is a Phase 5 Non-significant Chesapeake Bay facility.

USGS STATION.--01539000 FISHING CREEK NEAR BLOOMSBURG, PA

LOCATION.--Lat 41° 04' 41", long 76° 25' 54", Columbia County, Hydrologic Unit 02050107, on right downstream wingwall of Bowmans Mill bridge on SR 4034, 0.8 mi downstream from Green Creek, 0.9 mi west of Orangeville, and 5.5 mi north of Bloomsburg.

DRAINAGE AREA.--274 square miles.

 DFLOW Results

Gage	Period	Days in +	Zero/Mis+	1B3	Percentile	Excur per+	7Q10
01539000 - Fishing Creek near Bloomsburg, PA	1993/04/01 - 2018/04/01	9,131	0/0	18.2	0.20%	0.96	18.9

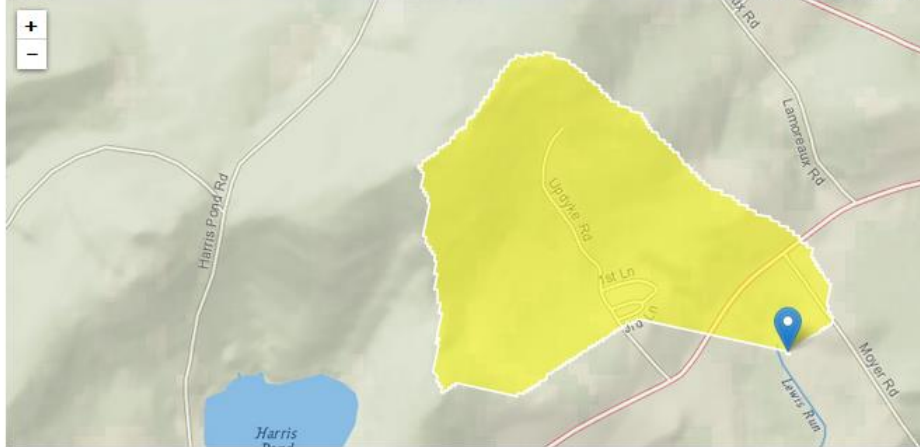
Q₇₋₁₀ LowFlowYield (cfs/mi²)=18.9/274 = .069

Lewis Run (a.k.a. "Trib 28312 To Roaring Brook") Hydrologic Unit Code: 2050107

Outfall 001 At perennial stream Lewis Run
RMI 3.60 - Elevation 1232 ft:
Q7-10 Flow (cfs) = 0.33 * .069 = 0.023 cfs

StreamStats Report

Region ID: PA
 Workspace ID: PA2021120215382168:
 Clicked Point (Latitude, Longitude): 41.29823, -76.11240
 Time: 2021-12-02 10:38:41 -0



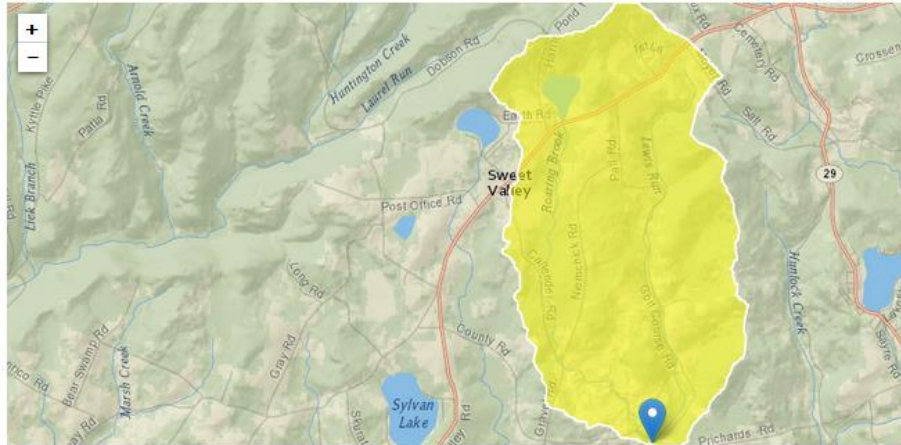
Low-Flow Statistics Parameters [Low Flow Region 2]

Parameter Code	Parameter Name	Value	Units
DRNAREA	Drainage Area	0.33	square miles

RMI 0.0 Lewis Run - Elevation 954 ft

StreamStats Report

Region ID: Rectangular Snip
 Workspace ID: PA
 Clicked Point (Latitude, Longitude): PA2021120215471254:
 Time: 41.25486, -76.11781
 2021-12-02 10:47:32 -



Low-Flow Statistics Parameters [Low Flow Region 2]

Parameter Code	Parameter Name	Value	Units
DRNAREA	Drainage Area	5.31	square miles

Treatment Facility Summary				
Treatment Facility Name: Sweet Valley Mobile Home Village STP				
WQM Permit No.	Issuance Date	Scope		
4099403	10/13/1999	The STP : screening/comminutor; headworks with flow distribution box; two SBR units (rated capacity of 7,500 GPD); two intermittent sand filters; UV disinfection system; and an aerobic digestion tank.		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary process to achieve denitrification per Planning approval.	SBR	UV	0.0075

Development of Effluent Limitations

Outfall No.	001	Design Flow (MGD)	.01
Latitude	41° 18' 1.25"	Longitude	-76° 7' 4.12"
Wastewater Description:	Sewage Effluent		

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) and/or BPJ. Monitoring frequencies for all parameters with limitations will be the frequencies found in Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations (doc. no. 362-0400-001)

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Parameter	Minimum	Average Monthly	Average Weekly	IMAX	Basis
Flow (MGD)	XXX	Report	Report Max Daily	XXX	§ 92a.27, 92a.61
CBOD5 (mg/L)	XXX	25	40	50	§ 92a.47
TSS (mg/L)	XXX	30	45	60	§ 92a.47
TRC (mg/L)	XXX	0.5	XXX	1.6	§§ 92a.47-48
NH3-N (mg/L)	XXX	25	XXX	50	BPJ
D.O. (mg/L)	4	XXX	XXX	XXX	BPJ
pH (SU)	6	XXX	XXX	9	§ 92a.47, § 95.2
Total N (mg/L)	XXX	Report	XXX	XXX	§ 92a.61
Total P (mg/L)	XXX	Report	XXX	XXX	§ 92a.61
Fecal Coliform (No./100 ml) (May-Sept)	XXX	200 Geo Mean	XXX	1,000	§ 92a.47
Fecal Coliform (No./100 ml) (Oct-April)	XXX	2,000 Geo Mean	XXX	10,000	§ 92a.47
E. Coli (No./100 ml)*	XXX	XXX	XXX	Report	§ 92a.61

* 2021 update - Sewage discharges will include monitoring, at a minimum, for E. Coli, in new and reissued permits, with a monitoring frequency of 1/month for design flows >= 1 MGD, 1/quarter for design flows >= 0.05 and < 1 MGD, 1/year for design flows of 0.002 – 0.05 MGD.

Comments: UV is utilized

Water Quality-Based Limitations

The following limitations were determined through water quality modeling (output files attached):

Analysis Results WQM 7.0

Hydrodynamics	NH3-N Allocations	D.O. Allocations	D.O. Simulation	Effluent Limitations
RMI	Discharge Name	Permit Number	Disc Flow (mgd)	
3.60	Sweet Valley MH	PA0063851	0.0100	
Parameter	Effluent Limit 30 Day Average (mg/L)	Effluent Limit Maximum (mg/L)	Effluent Limit Minimum (mg/L)	
CBOD5	25			
NH3-N	5.09	10.18		
Dissolved Oxygen			3	

Record: 1 of 1 No Filter Search

TRC EVALUATION			
Input appropriate values in A3:A9 and D3:D9			
0.023	= Q stream (cfs)	0.5	= CV Daily
0.01	= Q discharge (MGD)	0.5	= CV Hourly
4	= 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 = 0.493	1.3.2.iii WLA_cfc = 0.473
PENTOXSD TRG	5.1a	LTAMULT_afc = 0.373	5.1c LTAMULT_cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc = 0.184	5.1d LTA_cfc = 0.275
Source	Effluent Limit Calculations		
PENTOXSD TRG	5.1f	AML MULT = 1.720	
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.316	AFC
		INST MAX LIMIT (mg/l) = 0.740	



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Anti-Backsliding

Retain existing Limits

Compliance History

DMR Data for Outfall 001 (from November 1, 2020 to October 31, 2021)

Parameter	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20
Flow (MGD) Average Monthly	0.0047 67	0.0028 06	0.0025 49	0.0025 30	0.0024 49	0.0023 79	0.0020 76	0.0037 4	0.0035 69	0.0039 17	0.0034 28	0.0020 18
Flow (MGD) Daily Maximum	0.0074 39	0.0033 70	0.0031 49	0.0029 57	0.0025 69	0.0031 97	0.0021 84	0.0040 34	0.0041 09	0.0043 14	0.0043 14	0.0024 98
pH (S.U.) Minimum	6.2	6.01	6.3	6.2	6.1	6.0	6.1	6.1	6.10	6.1	6.1	6.3
pH (S.U.) Maximum	6.4	6.31	6.4	6.7	6.6	6.6	6.7	6.3	6.40	6.6	6.3	6.7
DO (mg/L) Minimum	6.2	6.5	6.7	6.2	6.3	6.1	6.2	6.2	6.3	6.2	6.3	6.2
CBOD5 (mg/L) Average Monthly	3.0	< 2.0	< 2.0	< 2.0	7.0	8.0	7.0	20.0	11.0	< 2.0	7.0	< 2.0
TSS (mg/L) Average Monthly	10.0	14.0	6.0	8.0	19.0	9.0	21.0	27.0	5.0	< 3.0	9.0	< 3.0
Fecal Coliform (CFU/100 ml) Geometric Mean	1414	< 1	687	980	> 2420	2420	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0
Fecal Coliform (CFU/100 ml) Instantaneous Maximum	1414	< 1	687	980	> 2420	2420	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0
Nitrate-Nitrite (mg/L) Average Monthly	0.6	0.79	1.90	1.4	1.03	2.64	5.6	1.1	2.65	5.6	3.85	8.45
Total Nitrogen (mg/L) Average Monthly											11.5	
Ammonia (mg/L) Average Monthly	7.0	10.0	14.0	18.0	28.6	5.85	1.7	3.5	2.15	11.8	6.0	0.17
TKN (mg/L) Average Monthly											7.65	
Total Phosphorus (mg/L) Average Monthly											2.4	