Pennsylvania Department of Environmental Protection

Northwest Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0210803**
Facility Type	**Non-Municipal**	APS ID	**1153333**
Major / Minor	**Minor**	Authorization ID	**1554047**

Applicant and Facility Information

Applicant Name	**Rural Solutions - W3 LLC**	Facility Name	**Rural Solution W 3 LLC**
Applicant Address	11251 S Wayland Road	Facility Address	11012 Star Route
	Meadville, PA 16335-5941		Guys Mills, PA 16327
Applicant Contact	Calla Perrine	Facility Contact	
Applicant Phone	(814) 758-2176	Facility Phone	
Client ID	394628	Site ID	2286
Ch 94 Load Status	Not Overloaded	Municipality	East Mead Township
Connection Status	No Limitations	County	Crawford
Date Application Received	January 5, 2026	EPA Waived?	Yes
Date Application Accepted		If No, Reason	

Purpose of Application .

Summary of Review

Sludge use and disposal description and location(s):

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
		Adebayo Olude / Civil Engineer Trainee	January 8, 2026
		Adam Olesnanik, P.E. / Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	.0134
Latitude	41Âº 37' 13.82"	Longitude	-80Âº 2' 9.22"
Quad Name		Quad Code	
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary to Little Sugar Creek	Stream Code	
NHD Com ID	127346290	RMI	0.8800
Drainage Area		Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)		Q_{7-10} Basis	
Elevation (ft)		Slope (ft/ft)	
Watershed No.	16-D	Chapter 93 Class.	
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	

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

Nearest Downstream Public Water Supply Intake			
PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Changes Since Last Permit Issuance:

Other Comments:

Treatment Facility Summary

Treatment Facility Name: Star Route Estates

WQM Permit No.	Issuance Date

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Hypochlorite	0.0115

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0115	27.6	Not Overloaded	Aerobic Digestion	

Changes Since Last Permit Issuance:

Other Comments:

Compliance History	
Summary of DMRs:	
Summary of Inspections:	

Other Comments:

Compliance History

DMR Data for Outfall 001 (from December 1, 2024 to November 30, 2025)

Parameter	NOV-25	OCT-25	SEP-25	AUG-25	JUL-25	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24
Flow (MGD) Average Monthly	0.004	0.002	0.004	0.005	0.005	E	E	E	E	E	E	E
pH (S.U.) Instantaneous Minimum	7.7	7.7	7.8	7.0	7.1	6.75	E	E	E	E	E	E
pH (S.U.) Instantaneous Maximum	8.2	8.2	8.4	8.4	8.7	7.41	E	E	E	E	E	E
DO (mg/L) Instantaneous Minimum	8.1	8.1	8.1	7.9	7.6	6.02	E	E	E	E	E	E
TRC (mg/L) Average Monthly	0.2	0.2	0.1	0.2	0.1	< 0.02	E	E	E	E	E	E
TRC (mg/L) Instantaneous Maximum	0.4	0.4	0.3	0.7	0.5	0.04	E	E	E	E	E	E
CBOD5 (mg/L) Average Monthly	< 2.0	< 2.5	< 2.0	< 2.0	< 2.5	< 3.27	E	E	5.32	E	7.16	E
TSS (mg/L) Average Monthly	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	E	E	< 5.0	E	< 5.0	E
Fecal Coliform (No./100 ml) Geometric Mean	< 1		< 6	< 1	< 2	24	E	E	< 25	E	> 2420	E
Fecal Coliform (No./100 ml) Instantaneous Maximum	1		38	< 1	3	29	E	E	613	E	> 2420	E
Total Nitrogen (mg/L) Average Monthly	31.5	60.0	31.1	21.6	19.5	18.9	E	E	17.9	E	11.6	E
Ammonia (mg/L) Average Monthly	13.0	< 0.15	0.36	< 0.2	0.53	5.88	E	E	7.77	E	4.5	E
Total Phosphorus (mg/L) Average Monthly	6.23	7.83	4.78	6.1	1.99	1.44	E	E	3.5	E	1.66	E

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .0134
Latitude 41° 37' 14.00" **Longitude** -80° 2' 9.00"
Wastewater Description: Sewage Effluent

Technology-Based Limitations

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

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
$CBOD_5$	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform (5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

Comments:

Water Quality-Based Limitations

A "Reasonable Potential Analysis" (Attachment) determined the following parameters were candidates for limitations:

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

Parameter	Limit (mg/l)	SBC	Model

Comments:

Best Professional Judgment (BPJ) Limitations

Comments:

Anti-Backsliding

Pennsylvania
Department of
Environmental Protection

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" (386-0400-001), SOPs and/or BPJ.

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

Parameter	Effluent Limitations					
	Mass Units (lbs/day) (1)		Concentrations (mg/L)			
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0
DO	XXX	XXX	4.0 Inst Min	XXX	XXX	XXX
TRC	XXX	XXX	XXX	0.5	XXX	1.6
CBOD5	XXX	XXX	XXX	25.0	XXX	50
TSS	XXX	XXX	XXX	30.0	XXX	60
Fecal Coliform (No./100 ml) Nov 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX
Ammonia	XXX	XXX	XXX	Report	XXX	XXX
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX

Compliance Sampling Location:

Other Comments:

Approve	Deny	Signatures	Date
		Adebayo Olude / Civil Engineer Trainee	January 8, 2026
		Adam Olesnanik, P.E. / Environmental Engineer Manager	