

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0031402
 APS ID 1134173
 Authorization ID 1521468

Applicant and Facility Information

Applicant Name	<u>Joel 2 Missions, Inc.</u>	Facility Name	<u>Central Elementary School STP</u>
Applicant Address	<u>PO Box 385</u> <u>Donora, PA 15033-0385</u>	Facility Address	<u>233 Arensburg Road Academy Road</u> <u>East Millsboro, PA 15433</u>
Applicant Contact	<u>Paula Millsaps</u>	Facility Contact	<u>Edgar A. Harris, Jr.</u>
Applicant Phone	<u>(910) 408-8772</u>	Facility Phone	<u>(724) 966-2278</u>
Client ID	<u>342708</u>	Site ID	<u>253537</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Luzerne Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Fayette</u>
Date Application Received	<u>March 31, 2025</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u></u>	If No, Reason	<u></u>

Purpose of Application Application for the Renewal of a NPDES permit for the discharge of sewage effluent.

Summary of Review

Introduction

The Applicant has applied for renewal of NPDES Permit No. PA0031402, which was previously issued by the Department on July 30, 2020. That permit expired on August 31, 2025.

The application states the facility has not discharged during the last 5-year permit period, as confirmed by review of eDMR data. The facility serves a domestic violence center with very limited water usage (one restroom).

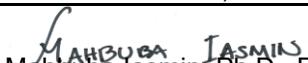
Facility Overview

WQM Permit No. 463S35 was issued on June 21, 1963, and later amended on July 28, 1998, authorizing the construction of a STP to treat an annual average design flow of 0.01 MGD.

The existing STP is an extended aeration STP consisting of flow equalization, extended aeration, clarification, aerated sludge holding tank, tablet chlorination, and tablet de-chlorination.

The treated effluent discharges to a drainage swale to UNT to Monongahela River (WWF), which is located in State Watershed No. 19-C.

The Applicant has complied with Act 14 Notifications, and no comments were received.

Approve	Deny	Signatures	Date
X		 William C. Mitchell, E.I. / Project Manager	March 18, 2026
X		 Mahbuba Jasmin, Ph.D., P.E. / Environmental Engineering Manager	March 24, 2026

Summary of Review

Summary of Changes to the NPDES Permit

- New Technology-Based Effluent Limitations imposed based upon DEP Guidance Document No. 391-2000-014
- Addition of *E.Coli* monitoring
- Part C.II., TRC Effluent Limitation Below Quantitation Limits, has been added to the permit

Sludge use and disposal description and location(s):

Application data indicates that zero sewage sludge was produced/wasted by the facility in the previous year, and the facility did not receive additional sludge from other sources. The application indicates that there is no recognizable sludge in the various tanks.

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.	<u>001</u>	Design Flow (MGD)	<u>.01</u>
Latitude	<u>39° 57' 24.00"</u>	Longitude	<u>-79° 56' 57.00"</u>
Quad Name	<u>Carmichaels</u>	Quad Code	<u>1906</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Monongahela River (WWF)</u>	Stream Code	<u>41003</u>
NHD Com ID	<u>99413722</u>	RMI	<u>0.37</u>
Drainage Area	<u>0.04</u>	Yield (cfs/mi ²)	<u>0.0036</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.000144</u>	Q ₇₋₁₀ Basis	<u>USGS StreamStats (Attachment 1)</u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>19-C</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u>NONE</u>	Exceptions to Criteria	<u>None</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u></u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u></u>	Name	<u></u>
Background/Ambient Data		Data Source	
pH (SU)	<u></u>		<u></u>
Temperature (°F)	<u></u>		<u></u>
Hardness (mg/L)	<u></u>		<u></u>
Other:	<u></u>		<u></u>
Nearest Downstream Public Water Supply Intake	<u>Tri County Joint MA - 5630045</u>		
PWS Waters	<u>Monongahela River</u>	Flow at Intake (cfs)	<u>530</u>
PWS RMI	<u>64.8</u>	Distance from Outfall (mi)	<u></u>

Changes Since Last Permit Issuance: None

Other Comments: N/A

Treatment Facility Summary				
Treatment Facility Name: Central Elementary School STP				
WQM Permit No.		Issuance Date		
463S35		6/21/1963		
463S35-A1		7/28/1998		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended aeration	Tablet Chlorination and Table Dechlorination	0.00
Hydraulic Capacity (MGD)				
0.010	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
	4	Not overloaded	Aerated holding tank	Other STP

Changes Since Last Permit Issuance: None

Other Comments: N/A

Compliance History

Operations Compliance Check Summary Report

Facility: Central Elementary School STP

NPDES Permit No.: PA0031402

Compliance Review Period: 12/1/20-12/15/25

Inspection Summary:

INSPECTED DATE	INSP TYPE	AGENCY	INSPECTION RESULT DESC
09/28/2021	Compliance Evaluation	PA Dept of Environmental Protection	No Violations Noted

Violation Summary:

No violations noted during review period

Open Violations by Client ID:

No open violations for Client ID 342708

Enforcement Summary:

No enforcements executed during review period

Effluent Violation Summary:

No effluent exceedances reported during review period

Unauthorized Discharges:

No unauthorized discharges reported in eDMR during review period

Compliance Status:

Facility is currently reporting No Discharge on monthly eDMRs. A Compliance Evaluation Inspection will be scheduled in the coming months.

Completed by: Amanda Illar

Completed date: 12/15/25

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>0.01</u>
Latitude <u>39° 57' 24.00"</u>	Longitude <u>-79° 56' 57.00"</u>
Wastewater Description: <u>Sewage Effluent</u>	

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: The above Technology-Based Limitation for pH and Fecal Coliform will be imposed in accordance with Federal and State Regulations.

To determine applicability of standards associated with dry streams, application managers will generally consider the following (Establishing Effluent Limitations for Individual Sewage Permits, SOP No. BCW-PMT-033):

1. If the stream flow (Q7-10) to wastewater flow (design flow) ratio is less than 3:1, proceed to paragraph 2, otherwise skip to the next section.
2. For new or expanding discharges, apply the more stringent treatment requirements in DEP's Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers (391-2000-014).
3. For existing discharges, if the more stringent treatment requirements cannot be achieved, do not apply the standards in DEP guidance (391-2000-014) unless the receiving stream is impaired and the point source discharge contributes to the impairment. If this is the case, apply the more stringent treatment requirements and provide a schedule to meet final limitations not exceeding three years in the draft permit. Do not approve design flow increases without applying the more stringent treatment requirements where the discharge meets the criteria in the guidance for a dry stream.

The stream flow (Q7-10) to wastewater flow (design flow) ratio is less than 3:1 and the discharge is to a dry swale to UNT to Monongahela River. The Technology Based effluent limitation, found in DEP Guidance Document No. 391-2000-014, will be imposed on this discharge. During the past 5-year permit cycle the applicant has reported "No Flow" on eDMRs and did not provide any sampling information with the renewal application. There is no way to quantify effluent data to see if the applicant can or cannot comply with the revised more restrictive Technology-Based effluent limits.

Water Quality-Based Limitations

The following limitations were determined through water quality modeling (Attachment 2):

Parameter	Limit (mg/l)	SBC	Model
TRC	0.01	Average Monthly	TRC CALC

Comments: Part C.II.TRC Effluent Limitation Below Quantitation Limits has been added to the permit.

Best Professional Judgment (BPJ) Limitations

Comments: N/A

Anti-Backsliding

Section 402(o) of the Clean Water Act (CWA), enacted in the Water Quality Act of 1987, establishes anti-backsliding rules governing two situations. The first situation occurs when a permittee seeks to revise a Technology-Based effluent limitation based on BPJ to reflect a subsequently promulgated effluent guideline which is less stringent. The second situation addressed by Section 402(o) arises when a permittee seeks relaxation of an effluent limitation which is based upon a State treatment standard of water quality standard.

Previous limits can be used pursuant to EPA's anti-backsliding regulation 40 CFR 122.44 (l) Reissued permits. (1) Except as provided in paragraph (l)(2) of this section when a permit is renewed or reissued. Interim effluent limitations, standards or conditions must be at least as stringent as the final effluent limitations, standards, or conditions in the previous permit (unless the circumstances on which the previous permit was based have materially and substantially changed since the time the permit was issued and would constitute cause for permit modification or revocation and reissuance under §122.62). (2) In the case of effluent limitations established on the basis of Section 402(a)(1)(B) of the CWA, a permit may not be renewed, reissued, or modified on the basis of effluent guidelines promulgated under section 304(b) subsequent to the original issuance of such permit, to contain effluent limitations which are less stringent than the comparable effluent limitations in the previous permit.

The facility is not seeking to revise the previously permitted effluent limits.

Additional Considerations

Monitoring frequency for the proposed effluent limits are based upon Table 6-3, Self-Monitoring Requirements for Sewage Dischargers, from the Departments Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits (Document No. 386-0400-001).

Sewage dischargers will include monitoring, at a minimum, for E. Coli, in new and reissued permits, with a monitoring frequency of 1/year for design flows 0.002 – 0.05 MGD per 25 Pa. Code § 92a.061, and Section I.A, Note 12, SOP No. BCW-PMT-033, Establishing Effluent Limitations for Individual Sewage Permits.

For existing discharges, the application manager will generally establish a year-round monitoring requirement for ammonia-nitrogen, per Section I.A, Note 5, SOP No. BCW-PMT-033, Establishing Effluent Limitations for Individual Sewage Permits.

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						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	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	6.0 Inst Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.01	XXX	0.03	1/day	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20.0	2/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	2/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Total Nitrogen	XXX	XXX	XXX	5.0	XXX	10.0	2/month	Grab
Ammonia-Nitrogen	XXX	XXX	XXX	Report	XXX	Report	2/month	Grab
Total Phosphorus	XXX	XXX	XXX	0.5	XXX	1.0	2/month	Grab

Compliance Sampling Location: Outfall 001

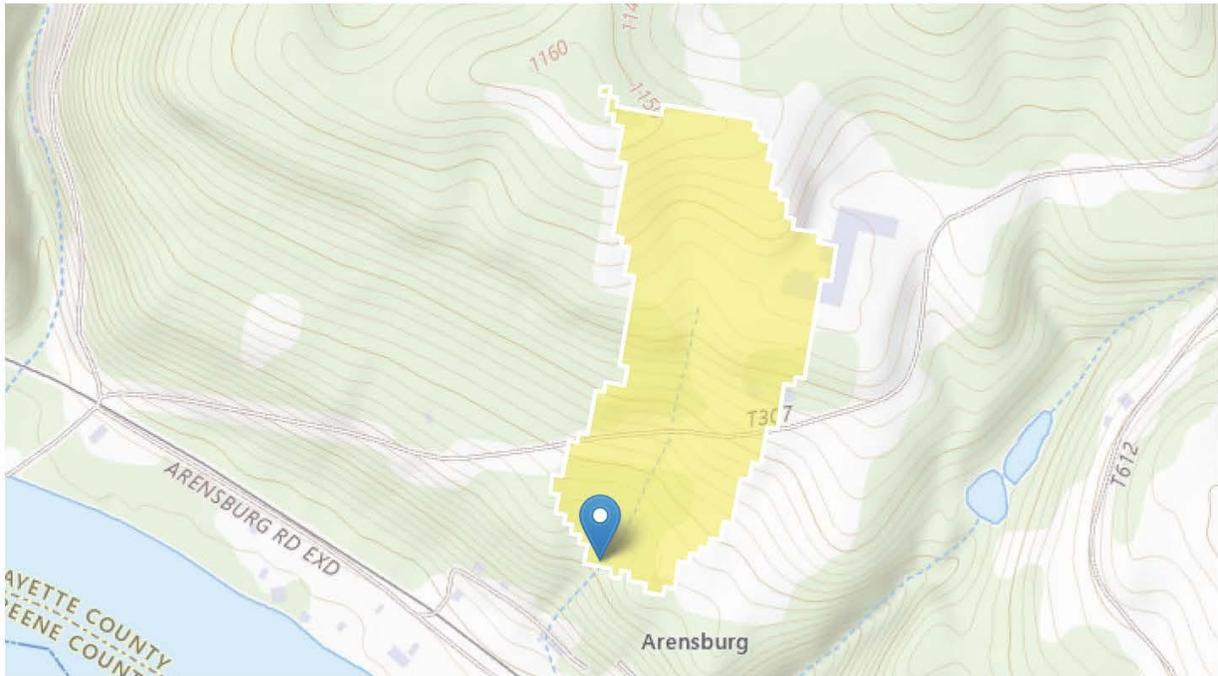
Other Comments: N/A

Attachment 1

USGS StreamStats Report

StreamStats Report

Region ID: PA
Clicked Point (Latitude, Longitude): 39.95375, -79.95026
Time: 2026-03-13 12:11:00 -0400



StreamStats Update

Starting with version 4.30.0, the StreamStats application uses services that were redeveloped with open-source software components. Users may observe minor variations in computed results when compared to those from previous versions. These differences are expected and do not reflect errors in the underlying data or analytical methods. Users are advised to consider these potential variations when interpreting or comparing results generated across different versions of StreamStats. Please email streamstats@usgs.gov with any questions or concerns. A full list of changes can be found at <https://www.usgs.gov/streamstats/news/streamstats-data-updates-open-source-code-release> (<https://www.usgs.gov/streamstats/news/streamstats-data-updates-open-source-code-release>).

+ Collapse All

➤ Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.04	square miles
ELEV	Mean Basin Elevation	1056.9	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	0.04	square miles	2.26	1400
ELEV	Mean Basin Elevation	1056.9	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	0.000645	ft ³ /s
30 Day 2 Year Low Flow	0.00144	ft ³ /s
7 Day 10 Year Low Flow	0.000144	ft ³ /s
30 Day 10 Year Low Flow	0.000389	ft ³ /s
90 Day 10 Year Low Flow	0.000905	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/>)

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Application Version: 4.31.1

SSHydro Services Version: 1.1.1

SSDelineate Services Version: 1.0.1

NSS Services Version: 2.2.1

GageStats Services Version: 1.2.1

Pourpoint Services Version: 1.2.0

Batch Processor Version: 1.6.1

Attachment 2
TRC CALC Model

TRC_CALC

TRC EVALUATION				
Input appropriate values in A3:A9 and D3:D9				
0.000144	= Q stream (cfs)		0.5	= CV Daily
0.01	= 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
TRC	1.3.2.iii	WLA_afc = 0.022		1.3.2.iii
PENTOXSD TRG	5.1a	LTAMULT_afc = 0.373		5.1c
PENTOXSD TRG	5.1b	LTA_afc = 0.008		5.1d
				WLA_cfc = 0.014
				LTAMULT_cfc = 0.581
				LTA_cfc = 0.008
Source	Effluent Limit Calculations			
PENTOXSD TRG	5.1f	AML_MULT = 1.231		
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.010		CFC
		INST MAX LIMIT (mg/l) = 0.033		
WLA_afc	$(.019/e^{-k \cdot AFC_tc}) + [(AFC_Yc \cdot Qs \cdot .019 / Qd \cdot e^{-k \cdot AFC_tc}) \dots + Xd + (AFC_Yc \cdot Qs \cdot Xs / Qd)] \cdot (1 - FOS / 100)$			
LTAMULT_afc	$EXP((0.5 \cdot LN(cvh^2 + 1)) - 2.326 \cdot LN(cvh^2 + 1)^{0.5})$			
LTA_afc	wla_afc * LTAMULT_afc			
WLA_cfc	$(.011/e^{-k \cdot CFC_tc}) + [(CFC_Yc \cdot Qs \cdot .011 / Qd \cdot e^{-k \cdot CFC_tc}) \dots + Xd + (CFC_Yc \cdot Qs \cdot Xs / Qd)] \cdot (1 - FOS / 100)$			
LTAMULT_cfc	$EXP((0.5 \cdot LN(cvd^2 / no_samples + 1)) - 2.326 \cdot LN(cvd^2 / no_samples + 1)^{0.5})$			
LTA_cfc	wla_cfc * LTAMULT_cfc			
AML_MULT	$EXP(2.326 \cdot LN((cvd^2 / no_samples + 1)^{0.5}) - 0.5 \cdot LN(cvd^2 / no_samples + 1))$			
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)			