Pennsylvania Department of Environmental Protection

Southwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0254614**
Facility Type	**Non-Municipal**	APS ID	**1094731**
Major / Minor	**Minor**	Authorization ID	**1450686**

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Applicant and Facility Information

Applicant Name	**Iron Cumberland LLC**	Facility Name	**No. 9 Portal STP**
Applicant Address	576 Maple Run Road	Facility Address	158 Portal Road
	Waynesburg, PA 15370-6311		Waynesburg, PA 15370-2330
Applicant Contact	Brittany Thompson	Facility Contact	Same
Applicant Phone	(724) 395-3238	Facility Phone	Same
Client ID	329531	Site ID	765169
Ch 94 Load Status	Not Overloaded	Municipality	Center Township
Connection Status	No Limitations	County	Greene
Date Application Received	August 9, 2023	EPA Waived?	Yes
Date Application Accepted		If No, Reason	
Purpose of Application	Renewal		

Summary of Review

Overview

This application is for an NPDES renewal which was previously renewed on 09/01/2018 and was originally issued on 01/15/2013. The renewal permit will be issued to Iron Cumberland LLC. The plant has an average design discharge flow of 0.022 MGD. The receiving stream is Maple Run, a tributary of Pursley Creek in the South Fork Tenmile Creek Basin above Browns Creek. The receiving stream and entire South Fork Tenmile Creek Basin are classified as High Quality - Warm Water Fishery. The Social Economic Justification (SEJ) for this discharge to a high-quality watershed was approved at the Planning Module stage, where all other non-discharge alternatives to this watershed were evaluated and ruled out. The planning module components were approved on May 14, 2012 as subject revision to the Center Township Sewage Facilities Plan.

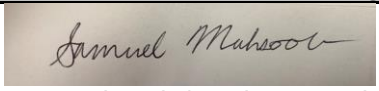
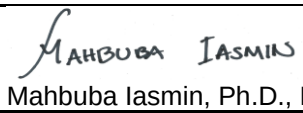
The existing treatment process consists of flow equalization, activated sludge, filtration, and ultraviolet radiation disinfection.

The sewage sludge/biosolids are disposed by land application and at another facility. The application indicates that .21 tons were applied at Watters Farms (PAG069101) and 1.34 tons were shipped to Franklin Twp STP in the previous year.

Part II Permit No. 3013400, issued on May 1, 2013, authorized the construction of this treatment plant.

Act 14 Notifications were mailed on July 7, 2023.

Effluent Limitations

Approve	Return	Deny	Signatures	Date
x			 Sam Mahsoob / Environmental Engineering Trainee	3/25/2025
x			 Mahbuba Iasmin, Ph.D., P.E. / Environmental Engineer Manager	3/27/2025

Summary of Review

As there have been no changes to the discharge or the receiving stream, the effluent limitations for $CBOD_5$, TSS, Fecal Coliform, Ammonia-Nitrogen (summer time), Nitrate -Nitrite as N, Dissolved Oxygen, Total Phosphorous, and pH are re-imposed in this permit based on previous approved pollution report and current water quality modeling. These limits for this discharge were derived using the more stringent of Antidegradation Best Available Combination of Technologies Standard from PADEP's Water Quality Antidegradation Implementation Guidance, and water quality modeling using WQM 7.0 program. More stringent Ammonia-Nitrogen limits have been applied for winter time based on water quality modeling. Also used were Implementation Guidance for Portable Water Supply Protection to determine the Nitrite –Nitrate effluent limit at the point of discharge in high quality streams, and PADEP's Implementation Guidance for Phosphorous Discharges to Free - Flowing Streams to determine the Phosphorous limit in high quality waters. As the disinfection is by UV Radiation, reporting of UV Transmittance (%) average monthly is included in the effluent limits.

Existing Discharge History

A review of the Discharge Monitoring Report from eDMR indicates general compliance with effluent limitations.

Compliance Check

There are no open violations for the Client ID within the Clean Water Program. Open violations exist with Oil & Gas Program and Deep Mine Safety Program.

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)	.022
Latitude	39º 49' 29.29"	Longitude	-80º 14' 24.32"
Quad Name	Oak Forest	Quad ID	39080G2
DEP Region Code	5		
Wastewater Description:	Sewage Effluent		

Receiving Waters	Maple Run (HQ-WWF)	Stream Code	40607
NHD Com ID	99418176	RMI	1.03
Drainage Area (sq mi)	.79	Yield (cfs/mi^2)	.00815
Q_{7-10} Flow (cfs)	.00644	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	1305	Slope (ft/ft)	.02
Watershed No.	19-B	Chapter 93 Class.	HQ-WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	

Background/Ambient Data		Data Source	
Other: See attachments		WQN (2011)	

Nearest Downstream Public Water Supply Intake:	TRI CNTY JT MUNI AUTH PWS ID 5630045		
PWS Waters	Monongahela River	Flow at Intake (cfs)	530
PWS RMI	65.25	Distance from Outfall (mi)	28.59

Changes Since Last Permit Issuance: New WQM 7.0 Model was run

Treatment Facility Summary

Treatment Facility Name: Cumberland Mine Portal No 9

WQM Permit No.	Issuance Date
3013400	5/1/2013

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	UV	0.022

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.022	40	Not Overloaded	N/A	Land Application (Walters Farms) & Disposed at Other Facilities (Franklin Twp STP)

Changes Since Last Permit Issuance: None

Compliance History

DMR Data for Outfall 001 (from February 1, 2024 to January 31, 2025)

Parameter	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24
Flow (MGD) Average Monthly	0.00756	0.00790	0.00651	0.00670	0.00645	0.00487	0.00485	0.00517	0.00527	0.00402	0.00612	0.00920
Flow (MGD) Daily Maximum	0.00975	0.01462	0.00910	0.00805	0.00850	0.00780	0.00680	0.00710	0.00655	0.00665	0.00780	0.01125
pH (S.U.) Daily Minimum	6.2	6.6	6.1	6.3	6.7	6.0	6.3	6.3	6.3	6.2	6.1	6.7
pH (S.U.) Daily Maximum	7.8	8.3	8.5	8.1	7.9	8.2	7.5	7.3	8.3	7.7	8.1	7.8
DO (mg/L) Daily Minimum	6.1	6.3	9.3	8.9	6.5	6.4	8.3	7.2	6.2	7.5	10.9	7.1
CBOD5 (mg/L) Average Monthly	2.0	2.2	2.0	2.0	2.0	2.0	2.0	2.0	2.8	2.0	2.0	2.0
CBOD5 (mg/L) Instantaneous Maximum	2.0	2.4	2.0	2.0	2.0	2.0	2.0	2.0	3.5	2.0	2.0	2.0
TSS (mg/L) Average Monthly	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
TSS (mg/L) Instantaneous Maximum	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Fecal Coliform (No./100 ml) Geometric Mean	1	1	1	1	1	2	1	1	1	1	1	1
Fecal Coliform (No./100 ml) Instantaneous Maximum	1	1	1	2	1	3	1	1	1	2	1	1
UV Transmittance (%) Average Monthly	78.5	76.9	74.2	71.0	68.2	66.6	71.6	56.1	53.2	72.6	81.7	83.2
Nitrate-Nitrite (mg/L) Average Monthly	4.21	3.39	8.79	6.01	0.31	5.47	6.29	3.52	0.11	4.06	1.15	0.74
Nitrate-Nitrite (mg/L) Instantaneous Maximum	4.94	6.51	10.91	6.06	0.49	6.59	10.42	4.15	0.11	7.40	2.19	1.06

Ammonia - Nitrogen (mg/L) Average Monthly	0.3	0.3	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2
Ammonia - Nitrogen (mg/L) Instantaneous Maximum	0.5	0.4	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.3	0.3
Total Phosphorus (mg/L) Average Monthly	0.90	0.7	0.75	1.05	0.7	1.5	1.3	1.85	0.70	1.75	0.60	0.65
Total Phosphorus (mg/L) Instantaneous Maximum	0.90	0.7	0.90	1.30	1.0	2.5	1.7	2.20	0.90	2.20	0.60	0.80

Compliance History

Facility: CUMBERLAND MINE PORTAL NO 9
NPDES Permit No.: PA0254614
Compliance Review Period: 3/1/20-3/26/25
Inspection Summary:

INSPECTED DATE	INSP TYPE	AGENCY	INSPECTION RESULT DESC
09/23/2021	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 329531 within Clean Water Program. Open violations exist with Oil & Gas Program and Deep Mine Safety Program.

Effluent Violation Summary:

MON_PD	PARAMETER	REPORTED VALUE	PERMIT LIMIT	UNIT	STAT_BASE_CODE	FACILITY_COMMENTS
6/1/2022	pH	5.8	6.0	S.U.	Daily Minimum	Exception of low pH occurred on one day only. The addition of supplemental alkalinity corrected this exception.

Compliance Status: Facility is generally in compliance with no open violations or pending enforcements.
Completed by: Amanda Illar **Completed date:** 3/27/25

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .022
Latitude 39º 49' 29.00" **Longitude** -80º 14' 25.00"
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)

Antidegradation Best Available Combination of Technologies (ABACT)

Outfall 001 discharges to an unnamed tributary to Maple Run, a HQ-WWF. The discharge for this sewage facility is a treated residential sewage flow of 22,000 GPD.

The following Antidegradation Best Available Combination of Technologies (ABACT) effluent limits, at a minimum, will be established based on the requirements in Chapter 9 and Appendix B of DEP's "Water Quality Antidegradation Implementation Guidance" (Doc. No. 391-0300-002; November 29, 2003).

Parameter	Treatment Process Performance Expectations (mg/L)		
	<2,000 gpd	**2,000-50,000 gpd**	>50,000 gpd
$CBOD_5$ (May 1 – Oct. 31)	10	**10**	10
$CBOD_5$ (Nov. 1 – Apr. 30)	20	**20**	10
Suspended Solids	20	**10**	10
NH_3-N (May 1 – Oct. 31)	5.0	**3.0**	1.5
NH_3-N (Nov. 1 – Apr. 30)	15.0	**9.0**	4.5
Effective disinfection	Disinfection should be accomplished using a method that leaves no detectable residual. Disinfection using ultra-violet light or other non-chlorine based systems is encouraged and must be considered.		
Other parameters, as needed	*Determined by the size and characteristics of the proposed discharge, may include – NO_2/NO_3-N, Total Phosphorus, Copper, Lead, Zinc*		

Water Quality-Based Limitations

The following limitations were determined through water quality modeling (See Attachments 3&4):

Parameter	Limit (mg/l)	SBC	Model
Ammonia-Nitrogen (May 1 to Oct 31)	2.0*	Average Monthly	WQM 7.0 Version 1.1
Ammonia-Nitrogen (Nov 1 to Apr 30)	4.9**	Average Monthly	WQM 7.0 Version 1.1
Dissolved Oxygen	6	Average Monthly	WQM 7.0 Version 1.1
Total Phosphorous	2	Average Monthly	Hand Calculated (386-2000-021 IV.C.)
Nitrate-Nitrite	10	Average Monthly	Hand Calculated (386-2000-020 II.F.)

Comments:

*Summer Ammonia-Nitrogen effluent limit is reimposed from the previous renewal permit issued by DEP. No backsliding has been proposed.

**The model recommended that TBELs are sufficient for this discharge except for wintertime Ammonia-Nitrogen, for which the model suggested a stricter limit. See Attachment 4 for wintertime model output files. The facility's data monitoring reports suggest that the facility is able to consistently meet the stricter winter-time Ammonia-Nitrogen limit. No compliance schedule is necessary.

The WQM 7.0 Model was run for both winter and summer conditions.

The Nitrate-nitrite limit was carried over from previous permit and not re-modelled as there are not substantial changes to the discharge/site.

Best Professional Judgment (BPJ) Limitations

Comments: None.

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. 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.

(40 CFR 122.44 (l)(2) Establishing limitations, standards, and other permit conditions., 40 CFR Ch. I (7-1-21 Edition))

No permit limits have been made less stringent in the renewal draft permit.

Ultraviolet Disinfection

Ultraviolet (UV) disinfection is used therefore Total Residual Chlorine (TRC) limits are not applicable. Routine monitoring of UV intensity is at the same monitoring frequency that is used for TRC.

(*Section I.A, Note 4, SOP for Clean Water Program, Establishing Effluent Limitations for Individual Sewage Permits, Final November 9, 2012, Revised March 24, 2021, Version 1.9* and *25 PA Code 92a.61(b)*.)

Additional Considerations

Sewage discharges will include monitoring, at a minimum, for *E. Coli*, in new and reissued permits, with a monitoring frequency of 1/year for design flows of 0.002 through 0.05 MGD.

(*Note 12 SOP-Establishing Effluent Limitations for Individual Sewage Permits Final November 9, 2012, Revised February 5, 2024, Version 2.0.* and *25 PA Code 92a.61(b).)*

Nutrient monitoring is required by the SOP for Effluent Limitations for Individual Sewage Permits. Monitoring is included to establish the nutrient load from the wastewater treatment facility and the impacts that load may have on the quality of the receiving stream. The receiving stream is not listed as impaired for nutrients, therefore at the discretion of the application manager, a monitoring frequency less than the equivalent of conventional pollutants in Table 6-3 of the Permit Writer's Manual has been selected.

(*Section I.A, Note 7 & 8, SOP for Clean Water Program, Establishing Effluent Limitations for Individual Sewage Permits, Final November 9, 2012, Revised March 24, 2021, Version 1.9* and *25 PA Code 92a.61(b)*.)

Rounding-Off Mathematical Values. Section 5 C.2. of the Permit Writers Manual contains general guidelines for rounding conventional and toxic pollutants, with instructions to round down to the nearest decimal place indicated.

General Magnitude	Conventional Pollutants	Toxic Pollutants
<0.01	to nearest 0.001	to nearest 0.001
0.01 - 0.1	to nearest 0.01	to nearest 0.01
0.1 - 1.0	to nearest 0.1	to nearest 0.01

1.0 - 10.0	to nearest 0.5	to nearest 0.01
10.0 - 60.0	to nearest 1.0	to nearest 0.01
60.0 or greater	to nearest 5.0	to nearest 0.10

(Department Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits, Updated June 28, 2023 (Document No. 362-0400-001))

Section 2.C of the Permit Writers Manual contains the procedure for converting average monthly effluent limitations to average weekly, maximum daily, and instantaneous maximum effluent limitations. The average monthly limit is multiplied according to the following chart:

Discharge Solution	Parameters	Average Weekly	Maximum Daily	Instantaneous Maximum Multiplier
Sewage	All	1.5		2.0
Industrial	All		2.0	2.5*

(Department Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits, Updated June 28, 2023 (Document No. 362-0400-001))

Table 5-3: Methods of Expressing Effluent Limits for Sewage Discharges

Discharge Situation	Mass Loadings (lbs/day)			Concentrations (mg/L)				
	Average Monthly	Average Weekly[3]	Maximum Daily	Average Monthly	Average Weekly	Maximum Daily	Instant Maximum[4]	Limit On Flow[6]
A. POTW DISCHARGES:								
1. Technology Based concentration limits	x	x[3]		x	x[3]		x	Yes
2. Water Quality Based limits	x	x[3]		x	x[3]		x	Yes
3. Water Quality Based limits (Toxics)	x		x	x		x		
B. NON-POTW DISCHARGES:								
1. Technology Based concentration limits	x[5]			x			x	Yes
2. Water Quality based limits	x[5]			x			x	Yes

1. This table is for all pollutants, conventional, non-conventional, toxic and all other pollutants that may be regulated by the permit. (Also refer to the toxics management strategy when specifying toxic WQBELs.)

2. X indicates need for an effluent limitation.

3. Only CBOD and TSS limitation.

4. Only include Instantaneous maximum limitations on the DMR forms if grab a sample is specified in the permit, otherwise do not include instantaneous maximum limitations on the DMR.

   Also, the permit page could include the following language for when composite samples are required "Instantaneous maximum limitations are imposed to allow for a grab sample to be collected by the appropriate regulatory agency to determine compliance. The permittee does not have to monitor for the instantaneous maximum limitations, however, if grab samples are collected by the permittee, the results must be reported."

5. This is for all sewage permits with design flow greater than 100,000 gpd since 25 Pa. Code § 94.13 requires flow monitoring.

6. The maximum monthly average flow limitation is the permitted flow that is to be placed in the NPDES permit. Generally, the annual average flow (AAF) is to be used for water quality modeling and to be used to determine the allowable mass loading in NPDES permits (i.e., AAF x 8.34 x mg/l = #/day) (Refer to the Domestic Wastewater Facilities Manual).

(Department Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits, Updated June 28, 2023 (Document No. 362-0400-001))

Monitoring frequency for the proposed effluent limits are based upon Table 6-3, Self-Monitoring Requirements for Sewage Dischargers.

Table 6-3 – Self-Monitoring Requirements for SEWAGE Discharges

Plant Design Flow (MGD)	Flow Monitoring	C-BOD_5 or BOD_5	Suspended Solids	pH	Fecal Coliform	Chlorine Residual	NH_3-N	Phosphorus	DO	Toxics
Single Residence (Individual Permit)	2/year by estimate	2/year*	2/year*	1/month*	2/year*	1/month*	2/year*	2/year*	2/year*	N/A
.0005 to .002	weekly, using average pump rate or weir (a)	1/month*	1/month*	daily*	1/month*	daily*	1/month*	1/month*	daily*	N/A
.002 to .01	weekly, using average pump rate or weir (a)	2/month*	2/month*	daily*	2/month*	daily*	2/month*	2/month*	daily*	N/A
0.01 to 0.1	**weekly, using average pump rate or weir (a)**	**2/month***	**2/month***	**daily***	**2/month***	**daily***	**2/month***	**2/month***	**daily***	**1/week***
0.1 to 1.0	meter	1/week**	1/week**	daily*	1/week*	daily*	1/week**	1/week**	daily*	1/week****
1.0 to 5.0	meter	2/week***	2/week***	daily*	2/week*	daily*	2/week***	2/week***	daily*	1/week****
5.0 to 25.0	meter	daily***	daily***	daily*	daily*	1/shift*	daily***	daily***	daily*	1/week****
over 25.0	meter	daily***	daily***	1/shift*	daily*	1/shift*	1/shift***	1/shift***	1/shift*	1/week****

* Grab sample-these should be most representative of the effluent and are to be taken at a time when the normal daily maximum flow would reach the sampling point.

** 8-hour composite sample.

*** 24-hour composite sample.

**** Same sample type as for Industrial Process Wastewater (See Table 6-4).

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)	0.022	Report Daily Max	XXX	XXX	XXX	XXX	2/month	Measured
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0 Daily Max	XXX	1/day	Grab
DO	XXX	XXX	6.0 Daily Min	XXX	XXX	XXX	1/day	Grab
CBOD5 Nov 1 - Apr 30	XXX	XXX	XXX	20	XXX	40	2/month	Grab
CBOD5 May 1 - Oct 31	XXX	XXX	XXX	10	XXX	20	2/month	Grab
TSS	XXX	XXX	XXX	10	XXX	20	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
UV Transmittance (%)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Measured
Nitrate-Nitrite as N	XXX	XXX	XXX	10	XXX	20	2/month	Grab
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	2/month	Grab
Ammonia-Nitrogen Nov 1 - Apr 30	XXX	XXX	XXX	4.9	XXX	9.8	2/month	Grab
Ammonia-Nitrogen May 1 - Oct 31	XXX	XXX	XXX	2.0	XXX	4.0	2/month	Grab

Outfall 001, Continued (from 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		
Total Phosphorus	XXX	XXX	XXX	2.0	XXX	4.0	2/month	Grab

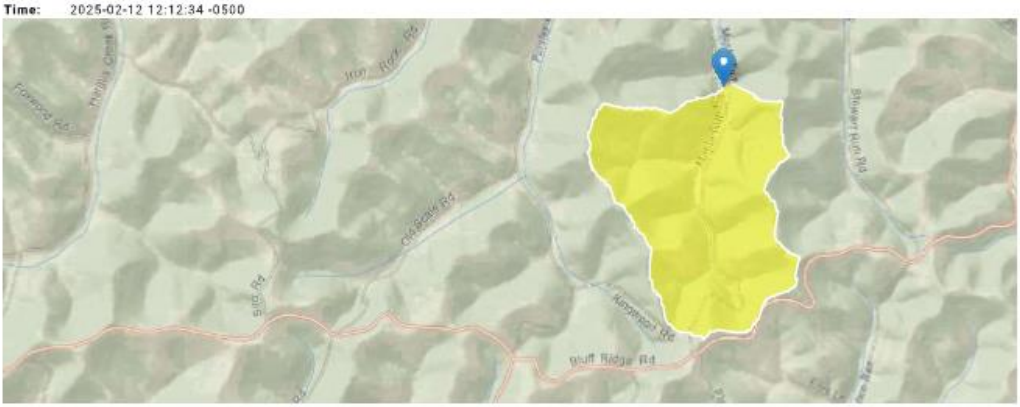
Compliance Sampling Location: 001

Tools and References Used to Develop Permit	
☒	WQM for Windows Model (see Attachments **1&2**)
☐	Toxics Management Spreadsheet (see Attachment)
☐	TRC Model Spreadsheet (see Attachment)
☐	Temperature Model Spreadsheet (see Attachment)
☐	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
☐	Technical Guidance for the Development and Specification of Effluent Limitations, 386-0400-001, 10/97.
☐	Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.
☐	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.
☐	Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.
☐	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.
☐	Pennsylvania CSO Policy, 386-2000-002, 9/08.
☒	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
☐	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 386-2000-008, 4/97.
☐	Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.
☐	Implementation Guidance Design Conditions, 386-2000-007, 9/97.
☐	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 386-2000-016, 6/2004.
☐	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 386-2000-012, 10/1997.
☐	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.
☐	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.
☐	Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.
☐	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.
☐	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.
☐	Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.
☐	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 10/97.
☐	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 386-2000-020, 10/97.
☐	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 3/99.
☐	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 386-2000-010, 3/1999.
☐	Design Stream Flows, 386-2000-003, 9/98.
☐	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 386-2000-006, 10/98.
☐	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 6/97.
☐	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
☒	SOP: New and Reissuance Sewage Individual NPDES Permit Applications
☒	Other: 2013 Pollution Report

Attachment 1 – StreamStats Report (Upstream)

StreamStats Report - Upstream

Region ID: PA
Workspace ID: PA20250212171210111000
Clicked Point (Latitude, Longitude): 39.82484, -80.24002
Time: 2025-02-12 12:12:34 -0500



Outlet Elevation: 1080.89 ft.

Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.79	square miles
ELEV	Mean Basin Elevation	1305	feet
OUTLETXA83	X coordinate of the outlet, in NAD_1983_Albers,meters	-191764.1441	meters
OUTLETYA83	Y coordinate of the outlet, in NAD_1983_Albers, meters	94008.7817	meters

Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.79	square miles	2.26	1400
ELEV	Mean Basin Elevation	1305	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	0.023	ft^3/s
30 Day 2 Year Low Flow	0.0451	ft^3/s

Statistic	Value	Unit
7 Day 10 Year Low Flow	0.00644	ft^3/s
30 Day 10 Year Low Flow	0.0141	ft^3/s
90 Day 10 Year Low Flow	0.0298	ft^3/s

Low-Flow Statistics Citations

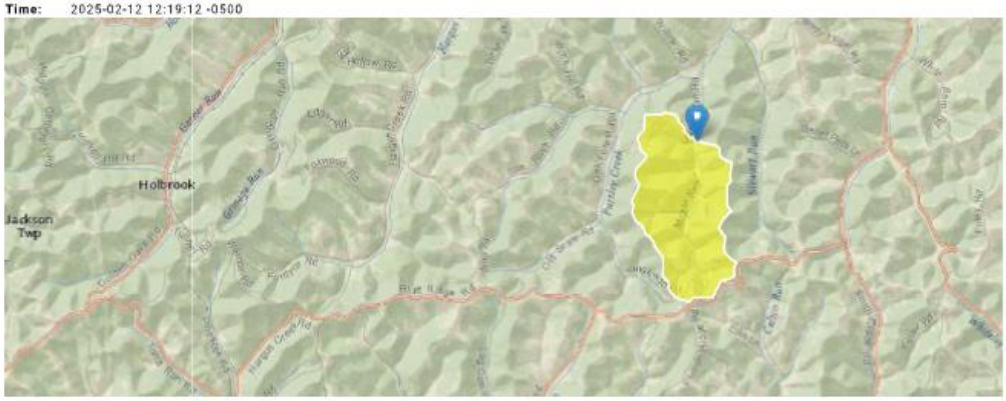
Stuckey, M.H.,2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (http://pubs.usgs.gov/sir/2006/5130/)

Application Version: 4.26.0
StreamStats Services Version: 1.2.22
NSS Services Version: 2.2.1

Attachment 2 – StreamStats Report (Downstream)

StreamStats Report - Downstream

Region ID: PA
Workspace ID: PA20250212171849008000
Clicked Point (Latitude, Longitude): 39.82988, -80.24041
Time: 2025-02-12 12:19:12 -0500



Outlet Elevation: 1044.52 ft

Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	1.25	square miles
ELEV	Mean Basin Elevation	1291	feet
OUTLETXA83	X coordinate of the outlet, in NAD_1983_Albers,meters	-191775.7504	meters
OUTLETYA83	Y coordinate of the outlet, in NAD_1983_Albers, meters	94576.1322	meters

Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.25	square miles	2.26	1400
ELEV	Mean Basin Elevation	1291	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	0.0385	ft^3/s
30 Day 2 Year Low Flow	0.0738	ft^3/s

Statistic	Value	Unit
7 Day 10 Year Low Flow	0.0113	ft^3/s
30 Day 10 Year Low Flow	0.0239	ft^3/s
90 Day 10 Year Low Flow	0.0492	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: 4.26.0
StreamStats Services Version: 1.2.22
NSS Services Version: 2.2.1

Attachment 3 - WQM Summer

Attachment 4 - WQM Winter