Pennsylvania Department of Environmental Protection

Southwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0255696**
Facility Type	**Municipal**	APS ID	**1132501**
Major / Minor	**Minor**	Authorization ID	**1518456**

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Applicant and Facility Information

Applicant Name	**Cecil Township Municipal Authority**	Facility Name	**Village of Lawrence Teodori STP**
Applicant Address	375 Southpointe Boulevard Suite 430	Facility Address	4 Montour 4 Pl Building 4
	Canonsburg, PA 15317-8587		Lawrence, PA 15055
Applicant Contact	Michael J Zrenchak	Facility Contact	Michael J Zrenchak
Applicant Phone	(724) 746-4848 X 4	Facility Phone	(724) 746-4848 X 4
Client ID	74993	Site ID	842531
Ch 94 Load Status	Not Overloaded	Municipality	Cecil Township
Connection Status	No Limitations	County	Washington
Date Application Received	March 3, 2025	EPA Waived?	Yes
Date Application Accepted		If No, Reason	

Purpose of Application: NPDES permit renewal application.

Summary of Review

The Pa Department of Environmental Protection (PADEP/Department) received an NPDES permit renewal application from LSSE (consultant) on March 3, 2025, on behalf of Cecil Township Municipal Authority (permittee) for Permittee's Village of Lawrence Teodori STP (facility). This is a minor sewage facility with a design flow of 0.33 MGD that discharges into Chartiers Creek (WWF) in state watershed 20-F. The current permit will expire on August 31, 2025. The terms and conditions of the current permit is automatically extended since the renewal application was received at least 180 days prior to expiration date. Renewal NPDES permit application under Clean Water Program are not covered by PADEP's PDG per 021-2100-001. This fact sheet is developed in accordance with 40 CFR §124.56.

Changes to existing permit: Added: E. Coli.

Sludge use and disposal description and location(s): The biosolid is sent to Millers Run WWTP for dewatering prior to being disposed of at the Arden Landfill.

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
√		Reza H. Chowdhury, P.E. / Environmental Engineer	June 10, 2025
X		Pravin Patel Pravin C. Patel, P.E. / Environmental Engineer Manager	06/11/2025

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.33
Latitude	40º 18' 16"	Longitude	-80º 6' 52"
Quad Name	Bridgeville	Quad Code	1605
Wastewater Description:	Sewage Effluent		
Receiving Waters	Chartiers Creek (WWF)	Stream Code	36777
NHD Com ID	99691310	RMI	22.3
Drainage Area	155 mi^2	Yield (cfs/mi^2)	0.034
Q_{7-10} Flow (cfs)	5.264	Q_{7-10} Basis	Previous fact sheet
Elevation (ft)	852.82	Slope (ft/ft)	
Watershed No.	20-F	Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	NUTRIENTS, SILTATION		
Source(s) of Impairment	AGRICULTURE, CONSTRUCTION		
TMDL Status	Final	Name	Chartiers Creek

Background/Ambient Data		Data Source
pH (SU)	7.0	Default
Temperature (°C)	25	Default
Hardness (mg/L)	100	Default
Other:		

Nearest Downstream Public Water Supply Intake		West View Water Authority, Neville TWP, Allegheny CNTY	
PWS Waters	Ohio River	Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Changes Since Last Permit Issuance: The bid for WQM permit was put out in November 2022. Contracts and permitting were completed and construction began in June 2023. Construction and testing of plant and equipment was completed in January 2025. The facility was scheduled to begin discharging in late February 2025. No influent or effluent sample was collected for the renewal application since there was no discharge during the time the application was submitted.

Streamflow:
There's no nearby StreamGage from this discharge point. The USGS's web based watershed delineation tool StreamStats (accessible at https://streamstats.usgs.gov/ss/, accessed on June 6, 2025) was utilized to determine the drainage area at discharge point and at confluence with Coal Run (node 2). The drainage area at Outfall 001 was found to be 155 mi^2 and 165 mi^2 at node 2. The Q7-10 at discharge point was found to be 5.264 cfs from pervious fact sheet. The resulting yield is 5.264 cfs/155 mi2 or 0.034 cfs/mi2. The default flow ratios are 0.64 (Q_{1-10}:Q_{7-10}) and 1.36 (Q_{30-10}:Q_{7-10}).

PWS Intake:
The nearest downstream public water supply is West View Water Authority in Neville Township, Allegheny County, on Ohio River. Discharge from this facility is expected not to impact the PWS intake.

Wastewater Characteristics:
Default discharge pH of 7.0 S.U., temperature of 25°C and hardness of 100 mg/l will be used for modeling, as appropriate.

Background data:
There's no nearby WQN station to collect the stream data from. In absence of site specific data, a default pH of 7.0, temperature of 25°C, and hardness of 100 mg/l will be used for modeling, as appropriate.

Chartiers Creek TMDL:
The discharge is to Chartiers Creek, which is part of the Chartiers Creek Watershed that has a Final TMDL and is impaired by metals and pH. This sewage discharge is not expected to contribute to the stream impairment for which abandoned mine drainage is source of such impairment. No WLAs have been developed for this sewage discharge and they are not expected to contribute to the stream impairment for these pollutants. The proposed permit requires monitoring of these metals. 1/year monitoring is imposed for the parameters of Total Iron, Total Manganese and Total Aluminum for plants rated below 0.499 MGD.

Antidegradation (93.4):
The effluent limits for this discharge have been developed to ensure that existing in-stream water uses and the level of water quality necessary to protect the existing uses are maintained and protected. The receiving streams are designated as Warm Water Fishes (WWF). No High-Quality stream or Exceptional Value water is impacted by this discharge; therefore, no Antidegradation Analysis is performed for the discharge.

Class A Wild Trout Fisheries:
No Class A Wild Trout Fisheries are impacted by this discharge.

Treatment Facility Summary

Treatment Facility Name: Village of Lawrence Teodori STP

WQM Permit No.	Issuance Date
6320404	12/03/2021
6320404 A-1	02/03/2023

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary With Ammonia Reduction	Sequencing Batch Reactor	Ultraviolet	0.33

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.33	729	Not Overloaded	Aerobic Digestion	Landfill

Changes Since Last Permit Issuance: New WQM permit was issued for the STP in 2021 and was amended in 2023 to make some changes in the permit prior to construction.

Facility Information

Cecil Township Municipal Authority owns and operates a wastewater treatment plant named Village of Lawrence Teodori STP (facility) located in Cecil Township, Washington County. It is a minor sewage treatment facility with a design flow of 0.33 MGD, hydraulic design capacity of 0.33 MGD, and organic design capacity of 729 lbs. BOD5/day.

This is a new facility that began discharging from February 2025. The facility was construction under WQM permit 6320404 A-1. The permit 1306969 belonged to the older treatment plant which was decommissioned while the new treatment plant was being built.

Inspection report:
11/29/2022: CEI conducted. The facility wasn't built yet.

Compliance History

DMR Data for Outfall 001 (from May 1, 2024, to April 30, 2025)

Parameter	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24
Flow (MGD) Average Monthly	0.069	0.065										
Flow (MGD) Daily Maximum	0.218	0.163										
pH (S.U.) Instantaneous Minimum	7.1	6.6										
pH (S.U.) Instantaneous Maximum	7.6	8.0										
DO (mg/L) Instantaneous Minimum	5.5	4.1										
CBOD5 (lbs/day) Average Monthly	1.9	6.2										
CBOD5 (lbs/day) Weekly Average	2.3	9.6										
CBOD5 (mg/L) Average Monthly	4.4	13.2										
CBOD5 (mg/L) Weekly Average	5.6	21.0										
BOD5 (lbs/day) Raw Sewage Influent Average Monthly	85	92										
BOD5 (lbs/day) Raw Sewage Influent Daily Maximum	116	156										
BOD5 (mg/L) Raw Sewage Influent Average Monthly	198	152										
TSS (lbs/day) Average Monthly	< 2.5	5.7										
TSS (lbs/day) Raw Sewage Influent Average Monthly	56	129										
TSS (lbs/day) Raw Sewage Influent Daily Maximum	113	451										

TSS (lbs/day) Weekly Average	3.9	8.3										
TSS (mg/L) Average Monthly	< 5.5	12.4										
TSS (mg/L) Raw Sewage Influent Average Monthly	127	150										
TSS (mg/L) Weekly Average	7.0	18.0										
Fecal Coliform (No./100 ml) Geometric Mean	20	< 34										
Fecal Coliform (No./100 ml) Instantaneous Maximum	116	192										
UV Intensity (mW/cm²) Instantaneous Minimum	1.7	1.0										
Ammonia (lbs/day) Average Monthly	3.0	9.0										
Ammonia (mg/L) Average Monthly	5.5	19.5										

Existing Limits

The following limits were applied to Outfall 001 from September 1, 2020, through August 31, 2025:

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Instantaneous Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Metered
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
Dissolved Oxygen	XXX	XXX	4.0	XXX	XXX	XXX	1/day	Grab
CBOD5	65.0	110.0	XXX	25.0	40.0	50	1/week	8-Hr Composite
BOD5 Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	1/week	8-Hr Composite

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Instantaneous Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Total Suspended Solids	80.0	120.0	XXX	30.0	45.0	60	1/week	8-Hr Composite
Total Suspended Solids Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	1/week	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
Ultraviolet light intensity (mW/cm^2)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Measured
Total Nitrogen	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	8-Hr Composite
Ammonia-Nitrogen Nov 1 - Apr 30	Report	XXX	XXX	Report	XXX	XXX	1/week	8-Hr Composite
Ammonia-Nitrogen May 1 - Oct 31	65.0	XXX	XXX	25.0	XXX	50	1/week	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	8-Hr Composite
Aluminum, Total	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	8-Hr Composite
Iron, Total	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	8-Hr Composite
Manganese, Total	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	8-Hr Composite

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.33
Latitude 40º 18' 16" **Longitude** -80º 6' 52"
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)

Mass-Based Limits

The federal regulation at 40 CFR 122.45(f) requires that effluent limits be expressed in terms of mass, if possible. The regulation at 40 CFR 122.45(b) requires that effluent limitations for POTWs be calculated based on the design flow of the facility. The mass-based limits are expressed in pounds per day and are calculated as follows:

Mass based limit (lb/day) = concentration limit (mg/L) × design flow (mgd) × 8.34

Model input data

The following data will be used for modeling, as needed:

- Discharge pH 7.0 (Default)
- Discharge Temperature 25°C (Default)
- Discharge Hardness 100 mg/l (Default)
- Stream pH 7.0 (Default)
- Stream Temperature 25.0°C (Default)
- Stream Hardness 100 mg/l (Default)

The following two nodes were used in modeling:

Node 1: At the outfall 001 on Casselman River (36777)
Elevation: 852.82 ft (National Map-Advanced Viewer, 06/04/2025)
Drainage Area: 155 mi^2 (StreamStat Version 3.0, 6/4/2025)
River Mile Index: 22.3 (PA DEP eMapPA)
Low Flow Yield: 0.034 cfs/mi^2
Q_{7-10}: 5.264 cfs
Discharge Flow: 0.33 MGD

Node 2: At confluence with Coal Run (36858)
Elevation: 817.45 ft (National Map-Advanced Viewer, 06/04/2025)
Drainage Area: 165 mi^2 (StreamStat Version 3.0, 6/4/2025)
River Mile Index: 17.4 (PA DEP eMapPA)
Low Flow Yield: 0.034 cfs/mi^2

Discharge Flow: 0.0 MGD

WQM 7.0 Model

A detailed WQM 7.0 modeling was conducted during last permit term (new permit). The information used in that modeling effort seems valid to-date, the assumptions are still correct, and the stream condition wasn't changed significantly. Therefore, a new WQM modeling isn't conducted for this permit renewal. Due to the file size (131 pages), that modeling isn't attached in this fact sheet. Please refer to previous fact sheet for modeling information. Since the modeling isn't conducted, the effluent limits for Ammonia-N, CBOD5, and DO will remain the same.

Toxics Management Spreadsheet (TMS)

At the time of the application submission, the facility wasn't discharging, therefore, couldn't collect effluent samples. The current permit has Total Aluminum, Total Iron, and Total Manganese annual monitoring due to the AMD TMDL. The facility couldn't sample for these metals yet. The monitoring for these metals will remain in this permit term. The sample results will be reviewed during next permit term.

Other Requirements/BPJ based limits

Total Phosphorus:
PADEP's SOP BCW-PMT-033 recommends monitoring for Total Phosphorus for facilities with design flow more than 2000-GPD, which is also supported by Pa Code 25 Ch. 92a.61. Current monitoring requirement will be continued.

Total Nitrogen:
PADEP's SOP BCW-PMT-033 recommends monitoring for Total Nitrogen for facilities with design flow more than 2000-GPD, which is also supported by Pa Code 25 Ch. 92a.61. Current monitoring requirement will be continued.

Fecal Coliform:
The recent coliform guidance in 25 Pa. code § 92a.47.(a)(4) requires a summer technology limit of 200/100 ml as a geometric mean and an instantaneous maximum not greater than 1,000/100ml and § 92a.47.(a)(5) requires a winter limit of 2,000/100ml as a geometric mean and an instantaneous maximum not greater than 10,000/100ml. These are existing requirements and will be carried over in this renewal.

E. Coli:
Pa Code 25 § 92a. 61 requires monitoring of E. Coli. DEP's SOP titled "Establishing Effluent Limitations for Individual Sewage Permits (BCW-PMT-033, revised March 24, 2021) recommends quarterly E. Coli monitoring for minor sewage dischargers with a design flow between ≥0.05 MGD and 1.0 MGD. This requirement will be applied from this permit term.

pH:
The TBEL for pH is above 6.0 and below 9.0 S.U. (40 CFR §133.102(c) and Pa Code 25 §§ 95.2(1), 92a.47) which are existing limits and will be carried over.

Total Suspended Solids (TSS):
The existing limits of 30 mg/L average monthly, 45 mg/l as average weekly, and 60 mg/L instantaneous maximum will remain in the permit based on the minimum level of effluent quality attainable by secondary treatment, 25 Pa. Code § 92a.47 and 40CFR 133.102(b). The mass based average monthly limit is calculated to be 82.57 lbs./day and weekly average loading is 123.85 lbs./day, which were rounded down in previous permit per rounding policy as stated in Permit Writers Manual (362-0400-001, Ch. 5, Pg. 9). The existing limits will be carried over.

UV Disinfection:
PADEP's SOP BCW-PMT-033 recommends UV parameter monitoring where UV is used as a method of disinfection, with the same frequency as would be if Chlorine is used for disinfection. The current permit has Instantaneous Minimum reporting of UV Intensity in mW/cm^2 which will be carried over.

Monitoring Frequency and Sample Types:
Otherwise specified above, the monitoring frequency and sample type of compliance monitoring for existing parameters are recommended by DEP's SOP and Permit Writers Manual and/or on a case-by-case basis using best professional judgment (BPJ).

Flow, Influent BOD_5 and TSS Monitoring Requirement:
The requirement to monitor the volume of effluent will remain in the draft permit per 40 CFR § 122.44(i)(1)(ii). Influent BOD_5 and TSS monitoring requirements are established in the permit per the requirements set in Pa Code 25 Chapter 94.

Anti-Backsliding
Anti-backsliding prohibition is justified in sections where an exception is justified for the affected pollutant(s). For remaining pollutants, this prohibition isn't applicable since the proposed limits are at least as stringent as were in current permit.

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	Weekly Average	Instantaneous Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Metered
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	4.0	XXX	XXX	XXX	1/day	Grab
CBOD5	65.0	110.0	XXX	25.0	40.0	50	1/week	8-Hr Composite
BOD5 Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	1/week	8-Hr Composite
TSS	80.0	120.0	XXX	30.0	45.0	60	1/week	8-Hr Composite
TSS Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	1/week	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/quarter	Grab
UV Intensity (mW/cm^2)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Measured
Total Nitrogen	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	Calculation
Ammonia Nov 1 - Apr 30	Report	XXX	XXX	Report	XXX	XXX	1/week	8-Hr Composite
Ammonia May 1 - Oct 31	65.0	XXX	XXX	25.0	XXX	50	1/week	8-Hr Composite

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)	Required
	Average Monthly	Weekly Average	Instantaneous Minimum	Average Monthly	Weekly Average	Instant. Maximum	Measurement Frequency	Sample Type
Total Phosphorus	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	8-Hr Composite
Total Aluminum	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	8-Hr Composite
Total Iron	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	8-Hr Composite
Total Manganese	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	8-Hr Composite

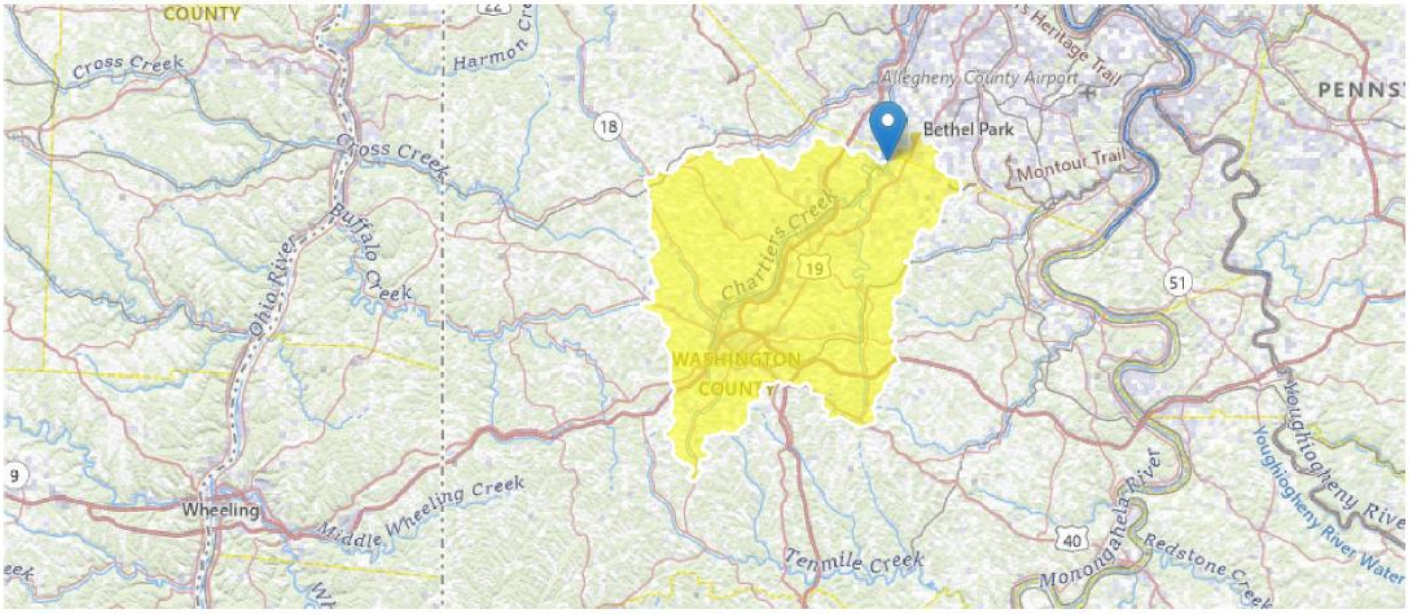
Compliance Sampling Location: At Outfall 001

Other Comments: None

StreamStats at Outfall 001

PA0255696 at Outfall 001

Region ID: PA
Workspace ID: PA20250605002719296000
Clicked Point (Latitude, Longitude): 40.30478, -80.11361
Time: 2025-06-04 20:27:42 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	155	square miles
ELEV	Mean Basin Elevation	1151	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	155	square miles	2.26	1400
ELEV	Mean Basin Elevation	1151	feet	1050	2580

Low-Flow Statistics Flow Report [Low Flow Region 4]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	SE	ASEp
7 Day 2 Year Low Flow	8.49	ft^3/s	43	43
30 Day 2 Year Low Flow	12.9	ft^3/s	38	38
7 Day 10 Year Low Flow	4.04	ft^3/s	66	66
30 Day 10 Year Low Flow	5.89	ft^3/s	54	54
90 Day 10 Year Low Flow	9.34	ft^3/s	41	41

StreamStats at Node 2

PA0255696 at node 2

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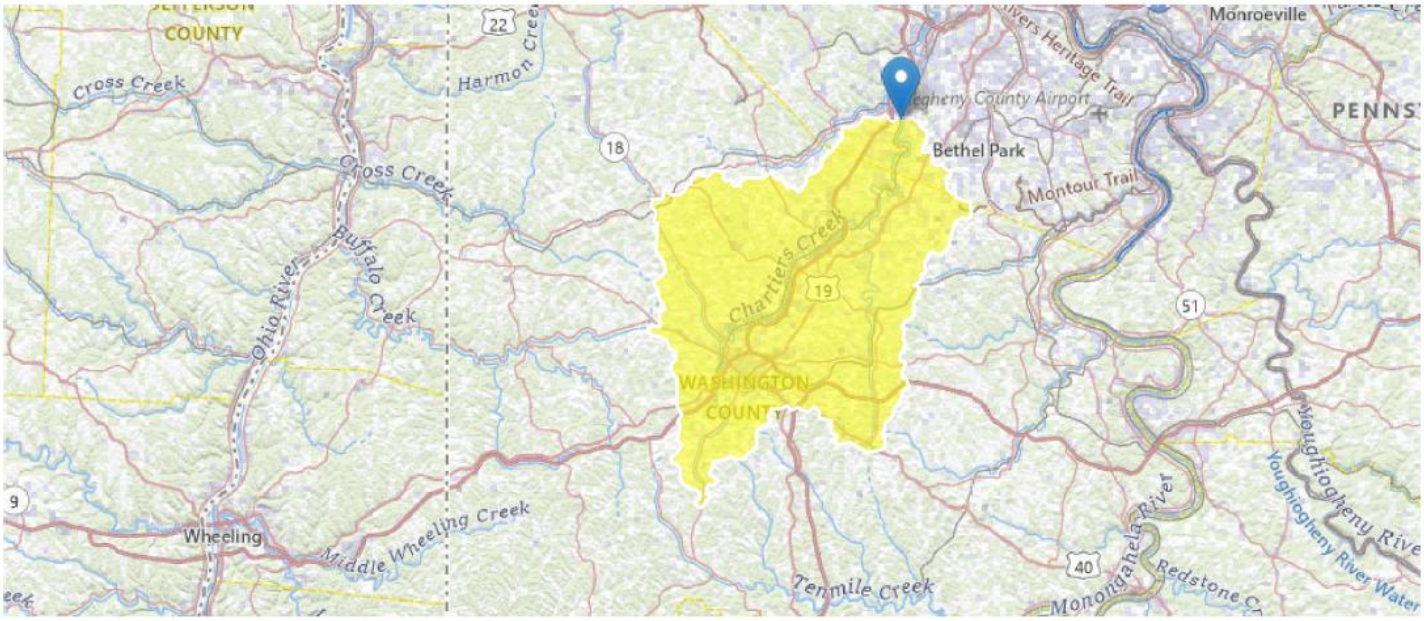
Clicked Point (Latitude, Longitude): 40.34968, -80.11048
Time: 2025-06-04 20:32:59 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	165	square miles
ELEV	Mean Basin Elevation	1144	feet

Low-Flow Statistics

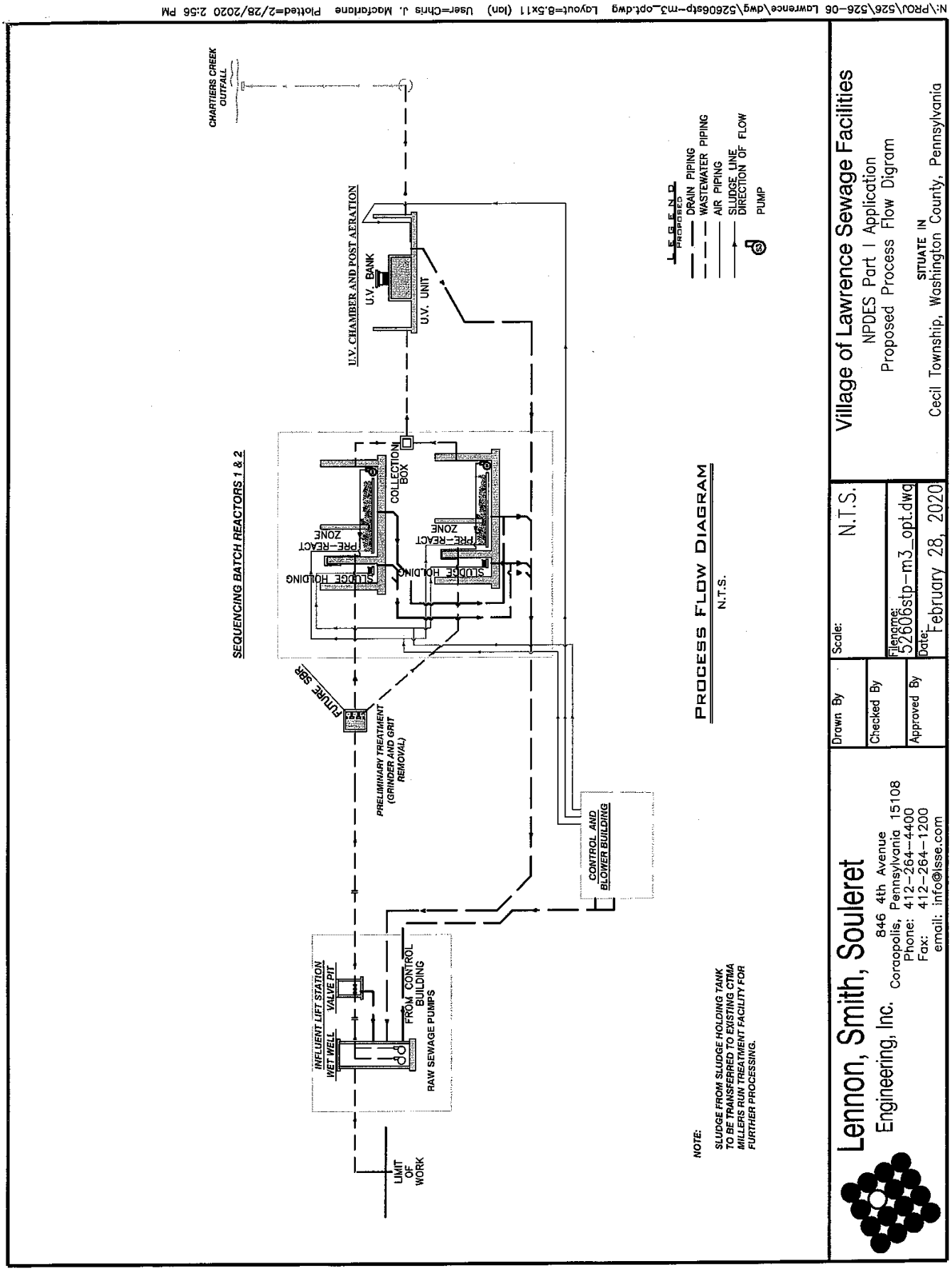
Low-Flow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	165	square miles	2.26	1400
ELEV	Mean Basin Elevation	1144	feet	1050	2580

Low-Flow Statistics Flow Report [Low Flow Region 4]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR^2: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	SE	ASEp
7 Day 2 Year Low Flow	9.07	ft^3/s	43	43
30 Day 2 Year Low Flow	13.7	ft^3/s	38	38
7 Day 10 Year Low Flow	4.34	ft^3/s	66	66
30 Day 10 Year Low Flow	6.31	ft^3/s	54	54
90 Day 10 Year Low Flow	9.95	ft^3/s	41	41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U.V. CHAMBER AND POST AERATION
U.V. BANK
U.V. UNIT
COLLECTION BOX
SEQUENCING BATCH REACTORS 1 & 2
PRE-REACT ZONE
SLUDGE HOLDING
FUTURE SBR
PRELIMINARY TREATMENT (GRINDER AND GRIT REMOVAL)
CONTROL AND BLOWER BUILDING
INFLUENT LIFT STATION
WET WELL
VALVE PIT
FROM CONTROL BUILDING
RAW SEWAGE PUMPS
LIMIT OF WORK
PROCESS FLOW DIAGRAM
N.T.S.
LEGEND
Proposed
DRAIN PIPING
WASTEWATER PIPING
AIR PIPING
SLUDGE LINE
DIRECTION OF FLOW
PUMP
NOTE:
SLUDGE FROM SLUDGE HOLDING TANK TO BE TRANSFERRED TO EXISTING CTMA MILLERS RUN TREATMENT FACILITY FOR FURTHER PROCESSING.
Lennon, Smith, Souleret
Engineering, Inc.
846 4th Avenue
Coraopolis, Pennsylvania 15108
Phone: 412-264-4400
Fax: 412-264-1200
email: info@lsse.com
Drawn By
Checked By
Approved By
Scale: N.T.S.
Filename: 52606stp-m3_opt.dwg
Date: February 28, 2020
Village of Lawrence Sewage Facilities
NPDES Part I Application
Proposed Process Flow Digram
SITUATE IN
Cecil Township, Washington County, Pennsylvania