pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southcentral Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0246590**
Wastewater Type	**Sewage**	APS ID	**808359**
Facility Type	**SRSTP**	Authorization ID	**1481472**

NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP

Applicant, Facility and Project Information

Applicant Name	**Dennis A McClure & Janice E McClure**	Facility Name	**McClure Residence**
Applicant Address	3469 McAlevys Fort Road	Facility Address	3469 McAlevys Fort Road
	Petersburg, PA 16669-2802		Petersburg, PA 16669-2802
Applicant Contact	Dennis McClure	Facility Contact	Janice McClure
Applicant Phone	(814) 667-2388	Facility Phone	(814) 571-8661
Client ID	303405	Site ID	462596
SIC Code	8811	Municipality	Jackson Township
SIC Description	Services - Private Households	County	Huntingdon
Date Application Received	April 19, 2024	WQM Required	
Date Application Accepted	April 19, 2024	WQM App. No.	

Project Description: NPDES permit Renewal.

Summary of Review

An application was submitted on April 19, 2024 for reissuance of an NPDES permit to discharge treated sewage from the single-family residence sewage treatment plant located in Jackson Township, Huntingdon County. The permit was last reissued on October 30, 2019 and became effective on November 1, 2019. The permit expires on October 31, 2024.

The facility has a design capacity of 400 gpd, and discharges to an UNT to Laurel Run, which is classified for HQ-Cold Water and Migratory fishes.

Changes from the previous permit: BOD_5 limits changed to $CBOD_5$ limits.

Based on the review outline in this fact sheet, it is recommended that the permit be drafted and published in the Pennsylvania Bulletin for public comments for 30 days.

Approve	Deny	Signatures	Date
X		*Hilaryle* Hilary H. Le / Environmental Engineering Specialist	June 14, 2024
X		*Maria D. Bebenek for* Daniel W. Martin, P.E. / Environmental Engineer Manager	June 25, 2024

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.0004
Latitude	40º 40' 45.09"	Longitude	-77º 52' 41.43"
Quad Name	Pine Grove Mills	Quad Code	
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary of Laurel Run (HQ-CWF, MF)	Stream Code	15463
NHD Com ID	65603582	RMI	0.1100
Drainage Area	0.22 mi.^{2}	Yield (cfs/mi^2)	0.0032
Q_{7-10} Flow (cfs)	0.0005	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	969.2	Slope (ft/ft)	
Watershed No.	11-B	Chapter 93 Class.	HQ-CWF, MF
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	
Nearest Downstream Public Water Supply Intake	Mifflintown Borough MA Juniata County		
PWS Waters	Juniata River	Flow at Intake (cfs)	
PWS RMI	37.3 miles	Distance from Outfall (mi)	Approximate 82.89 miles

Changes Since Last Permit Issuance: none

Drainage Area:
The discharge is to the headwater of Unnamed Tributary 15463 to Laurel Run at RMI 0.11 mile. A drainage area of the point of discharge is estimated to be 0.22 sq. miles according to USGS StreamStats available at https://streamstats.usgs.gov/ss/.

Streamflow:
USGS StreamStats produces a Q7-10 0.000545 cfs at the point of discharge.

Unnamed Tributary 15463 to Laurel Run:
This stream is classified as a High Quality-Cold Water and migratory fishery. The effluent limits for this discharge have been developed to ensure the existing in-stream water uses and the level of water quality necessary to protect existing uses are maintained and protected. No special protection water(s) is therefore impacted by this discharge. DEP's latest integrated report prepared in 2024 showed Laurel Run is not impaired and the discharge is located in a stream segment listed as attaining uses.

Public Water Supply Intake:
The fact sheet prepared for the renewal permit indicated that the nearest downstream public water supply intake is Mifflintown Borough Municipal Authority Juniata County located on Juniata River, approximately 82.89 miles from the discharge. Based on the nature of discharge and the distance from the public water supply, the discharge is not expected to affect downstream public water supply.

303d Listed Streams:
The discharge is not located on a 303d listed stream segment.

<table>
<tr><th colspan="2">Compliance History</th></tr>
<tr><td>Summary of DMRs:</td><td>Annual Maintenance Reports have been submitted annual and effluent sample results are as follows:
<table>
<tr><th>Year</th><th>TRC (mg/L)</th><th>pH (S.U.)</th><th>BOD5 (mg/L)</th><th>Fecal (No./100 mL)</th><th>TSS (mg/L)</th></tr>
<tr><td>June 2022 - May 2023</td><td>0.4</td><td>7.1</td><td>< 3.0</td><td>< 1.0</td><td>5.6</td></tr>
<tr><td>June 2021 – May 2022</td><td>0.4</td><td>7.3</td><td>< 20.0</td><td>1.0</td><td>8.4</td></tr>
</table></td></tr>
<tr><td>Summary of Inspections:</td><td>9/30/2020: Mr. Clark, WQS DEP, conducted an administrative inspection. There was no violation. Recommendations are to have the treatment system inspected and determine the cause of the high total suspended solids (TSS) test result and submit a 2020-2021 Annual Maintenance Report to the Department by June 30, 2021.</td></tr>
<tr><td>Other Comments:</td><td>There are currently no open violations associated with the permittee or the facility.</td></tr>
</table>

Other Comments:

Treatment Facility Summary

The treatment system serving single residence 3-bedrooms capacity 400 GPD consists of a 1,000-gallon septic tank, 500-gallon dosing tank/pump, 600 square feet lined subsurface sand filter, tablet chlorinator with a 500-gallon chlorine contact tank, and an outfall. The original WQM permit No. 3197402 was issued on August 12, 1997.

Development of Effluent Limitations and Monitoring Requirements

Unless stated otherwise below, the proposed effluent limitations and monitoring requirements listed on page 6 of the Fact sheet are derived from DEP's Standard Operating Procedure (SOP) for New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications (SOP No. BPNPSM-PMT-003) revised November 9, 2023.

The reviewer notes that the existing BOD_5 and TSS monitoring frequencies and limits are inconsistent with the monitoring frequencies and limits recommended in DEP SOP No. BPNPSM-PMT-003 for SRSTPs. Based on the best professional judgement of the author, the existing monitoring frequencies are sufficient and necessary. Therefore, the existing monitoring frequencies will remain the same as those specified in the existing permit. However, it is recommended that existing limits be carried over in this renewal and BOD_5 limits be replaced by $CBOD_5$ to comply with the recent SOP.

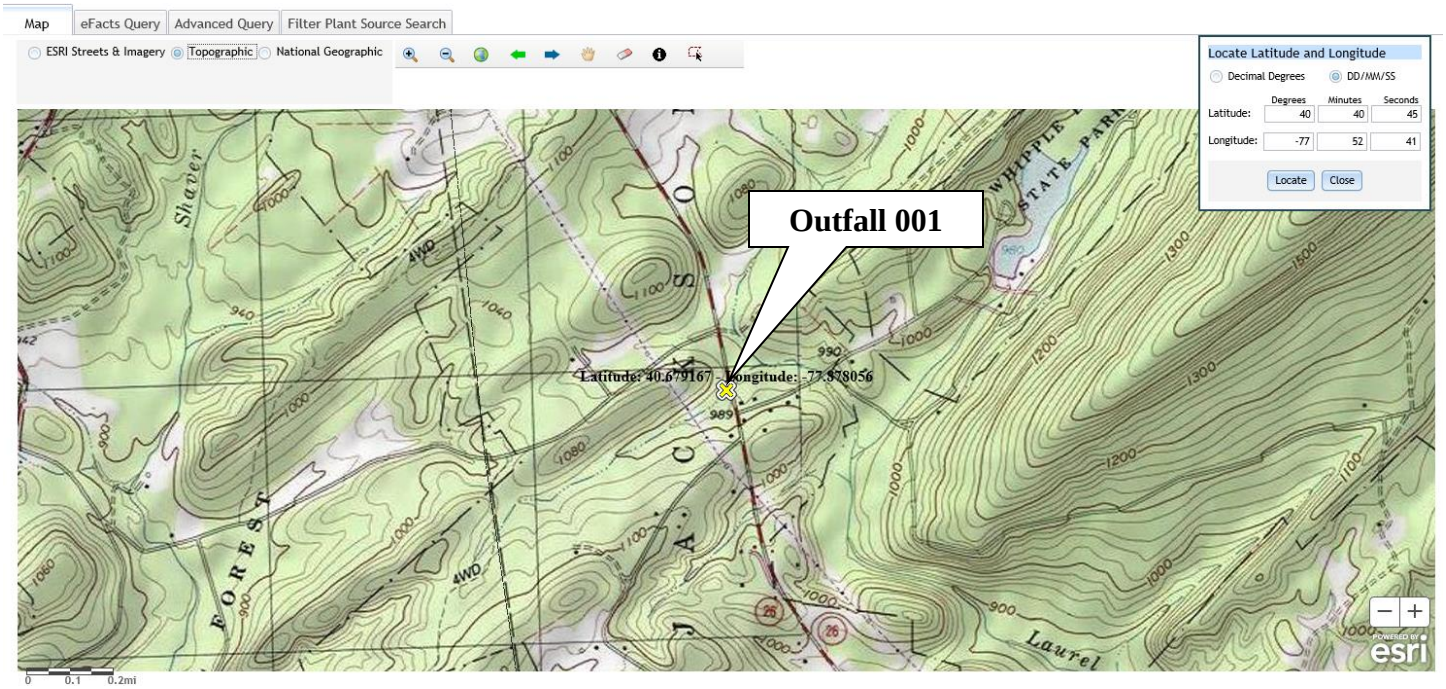
Fecal Coliform
Per SOP, a year-round average monthly limit for fecal coliform geometric mean to be 200/100 ml for all new or renewal. The existing permit has seasonal limit which is recommended year-round limit.

Chesapeake Bay Requirements
No nutrient monitoring requirement is recommended for this facility. Facilities that are designed based on a flow of less than or equal to 2,000 GPD or considered as SRSTPs are exempt from the Bay requirements.

Total Maximum Daily Load (TMDL)
The discharge is located in a stream segment listed as attaining uses; therefore, no TMDL has been taken into consideration during this review.

Antidegradation Requirements
All effluent limitations and monitoring requirements have been developed to ensure that existing instream water uses and the level of water quality necessary to protect the existing uses are maintained and protected.

Other Considerations
No Class A Wild Trout Fishery is impacted by this discharge. Considering dilution and distance from the intake, the discharge is not expected to affect the water supply.


Map
eFacts Query
Advanced Query
Filter Plant Source Search
ESRI Streets & Imagery
Topographic
National Geographic
Locate Latitude and Longitude
Decimal Degrees
DD/MM/SS
Degrees
Minutes
Seconds
Latitude: 40 40 45
Longitude: -77 52 41
Locate
Close
Outfall 001
Latitude: 40.679167 Longitude: -77.878056
Shaver
FOREST
Laurel
4WD
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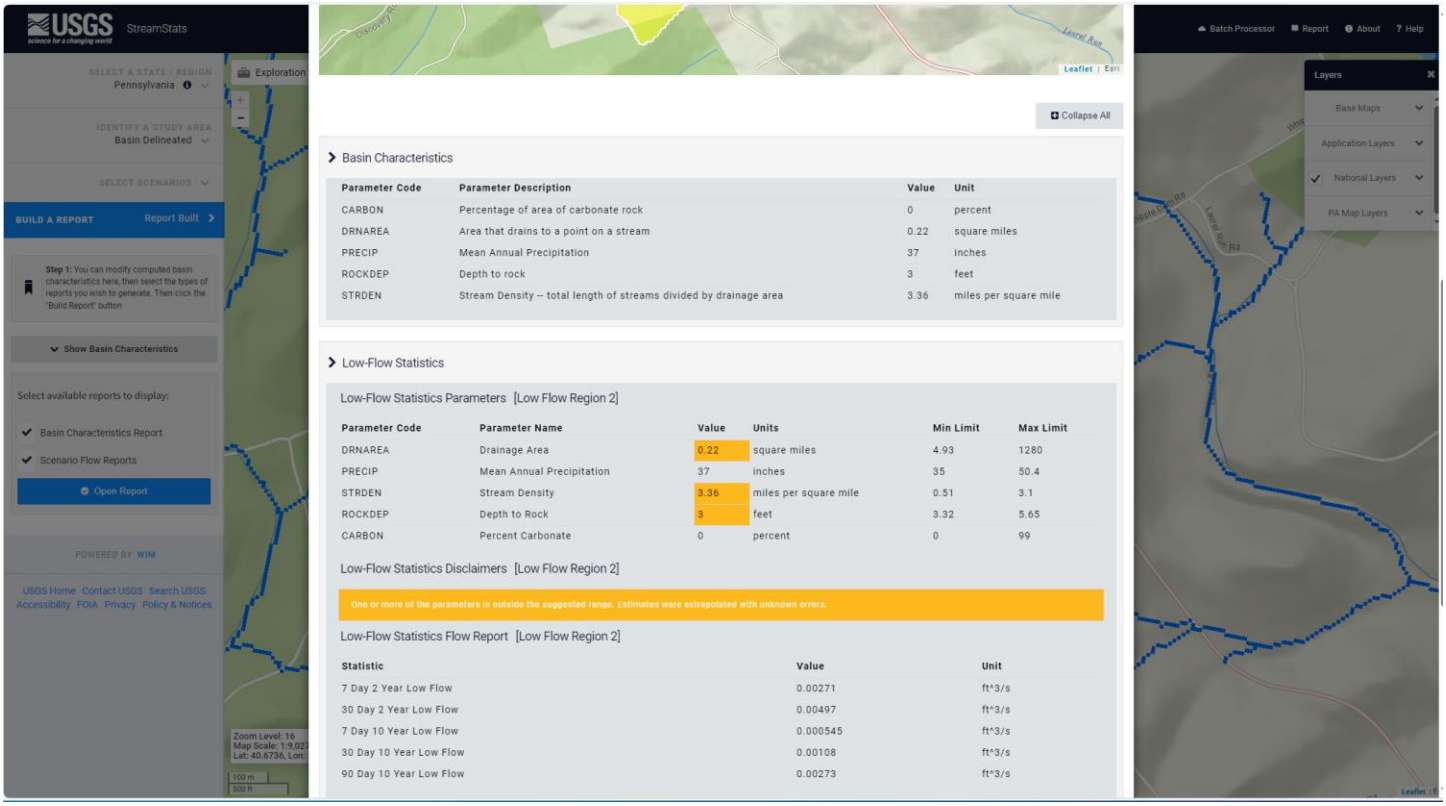
USGS StreamStats
Exploration
Pennsylvania
Basin Delineated
BUILD A REPORT
Report Built
Show Basin Characteristics
Select available reports to display:
Basin Characteristics Report
Scenario Flow Reports
Open Report
Collapse All
Basin Characteristics
Parameter Code | Parameter Description | Value | Unit
CARBON | Percentage of area of carbonate rock | 0 | percent
DRNAREA | Area that drains to a point on a stream | 0.22 | square miles
PRECIP | Mean Annual Precipitation | 37 | inches
ROCKDEP | Depth to rock | 3 | feet
STRDEN | Stream Density -- total length of streams divided by drainage area | 3.36 | miles per square mile
Low-Flow Statistics
Low-Flow Statistics Parameters [Low Flow Region 2]
Parameter Code | Parameter Name | Value | Units | Min Limit | Max Limit
DRNAREA | Drainage Area | 0.22 | square miles | 4.93 | 1280
PRECIP | Mean Annual Precipitation | 37 | inches | 35 | 50.4
STRDEN | Stream Density | 3.36 | miles per square mile | 0.51 | 3.1
ROCKDEP | Depth to Rock | 3 | feet | 3.32 | 5.65
CARBON | Percent Carbonate | 0 | percent | 0 | 99
Low-Flow Statistics Disclaimers [Low Flow Region 2]
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 2]
Statistic | Value | Unit
7 Day 2 Year Low Flow | 0.00271 | ft^3/s
30 Day 2 Year Low Flow | 0.00497 | ft^3/s
7 Day 10 Year Low Flow | 0.000545 | ft^3/s
30 Day 10 Year Low Flow | 0.00108 | ft^3/s
90 Day 10 Year Low Flow | 0.00273 | ft^3/s
Batch Processor
Report
About
Help
Layers
Base Maps
Application Layers
National Layers
PA Map Layers

Existing Effluent Limitations and Monitoring Requirements

Outfall 001,

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	Annual Average	Maximum	Instant. Maximum		
Flow (GPD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
TRC	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	Grab
BOD_5	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	1,000	1/year	Grab

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" (362-0400-001), 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	Annual Average	Maximum	Instant. Maximum		
Flow (GPD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
TRC	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	1000	1/year	Grab

Compliance Sampling Location:

Other Comments: