



Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.00114
Latitude	40° 17' 35.09"	Longitude	-76° 5' 53.05"
Quad Name	Sinking Spring	Quad Code	
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary 07726 to Little Cocalico Creek (TSF, MF)	Stream Code	07726
NHD Com ID	57460997 (UNT 07726)	RMI	1.0900
Drainage Area	0.91	Yield (cfs/mi <sup>2</sup> )	0.25
Q <sub>7-10</sub> Flow (cfs)	0.23	Q <sub>7-10</sub> Basis	USGS StreamStats
Elevation (ft)		Slope (ft/ft)	
Watershed No.	7-J	Chapter 93 Class.	TSF, 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			
PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Other Comments:

UNT 07726 is not a Class A Trout Water or a Trout Natural Reproduction Water.

The process consists of two (2) 1500-gal Multi-Compartment Septic Tanks → four (4) 1,200-gallon dosing tanks with Ecoflo (EC7-1200-C) filters system → integral UV disinfection → pumps, and 4-inch PVC outfall pipe.

Compliance History	
<b>Summary of DMRs:</b>	The effluent sample results with the NPDES renewal 2025 application were < 2.0 mg/L of BOD <sub>5</sub> , < 2 No./100 ml of Fecal Coliform, and 1.0 mg/L of TSS.
<b>Summary of Inspections:</b>	8/15/2022: Heather Dock, DEP WQS, conducted compliance evaluation inspection. There were violations noticed during the inspection such as the monthly sample results were not reported on the AMR form and mail the completed AMR form to DEP at the end of the monitoring year. The facility was compliant after this inspection.
<b>Other Comments:</b>	There are currently no open violations associated with the permittee or the facility.

Other Comments:

**Development of Effluent Limitations and Monitoring Requirements**

Unless stated otherwise below, the proposed effluent limitations and monitoring requirements listed on page 4 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) version 1.8 revised November 9, 2023. First, all existing monitoring frequencies have been changed to reflect the requirements specified in the SOP (i.e., all average monthly codes have been modified to annual average due to WMS coding issues). This is a reasonable approach as the permittee has been submitting annual maintenance reports consistently and no significant maintenance/operation issues are found.

**Water Quality-Based Limitations**

DEP's Standard Operating Procedures (SOP) for the Clean Water Program SOP No. BPNPSM-PMT-003 version 1.8 revised November 9, 2023, indicates that in determining effluent limitations for the reissuance of a permit for a Small Flow Treatment Facility (SFTF), water quality modeling via PentoxSD and/or WQM will not be conducted.

**Additional Considerations**

*Flow monitoring:*

Flow monitoring will be continued in this renewal in accordance with DEP's SOP BPNPSM-PMT-003 version 1.8 revised November 9, 2023. The reporting frequency will be revised to one a month and sample type is Measured (for SFTF).

*Carbon Biochemical Oxygen Demand (CBOD<sub>5</sub>):*

DEP's Standard Operating Procedure (SOP) No. BPNPSM-PMT-003, version 1.8 revised November 9, 2023 suggests average monthly BOD<sub>5</sub> limit to be 10.0 mg/L and instantaneous maximum (IMAX) limit to be 20.0 mg/L for new or renewal permits. It is recommended that existing limits be carried over in this renewal and BOD<sub>5</sub> limits be replaced by CBOD<sub>5</sub> to comply with the recent SOP. The minimum monitoring frequency will remain the same as 1/month.

*Total Suspended Solids (TSS):*

DEP's Standard Operating Procedure (SOP) No. BPNPSM-PMT-003, version 1.8 revised November 9, 2023 suggests average monthly TSS limit to be 10.0 mg/L and instantaneous maximum (IMAX) limit to be 20.0 mg/L. Existing limits are recommended to be carried over in this renewal. Minimum monitoring frequency will remain the same as 1/month.

*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 to be replaced by year-round limit. Existing permit also has IMAX limit for summer and winter which is also suggested to be removed. The unit of Fecal Coliform is changed from CFU/100 ml to No./100 ml to comply with Central Office directive. Please see attached email. The minimum monitoring frequency will remain the same as 1/month.

*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 SFTFs 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.

*Anti-Degradation Requirements:*

The discharge is to non-special protection waters/watershed. No HQ/EV waters are impacted by this discharge. The effluent limits for this discharge 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.

**Existing Effluent Limitations and Monitoring Requirements**

**Outfall 001,**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Instant. Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
BOD <sub>5</sub>	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/month	Grab

**Proposed Effluent Limitations and Monitoring Requirements**

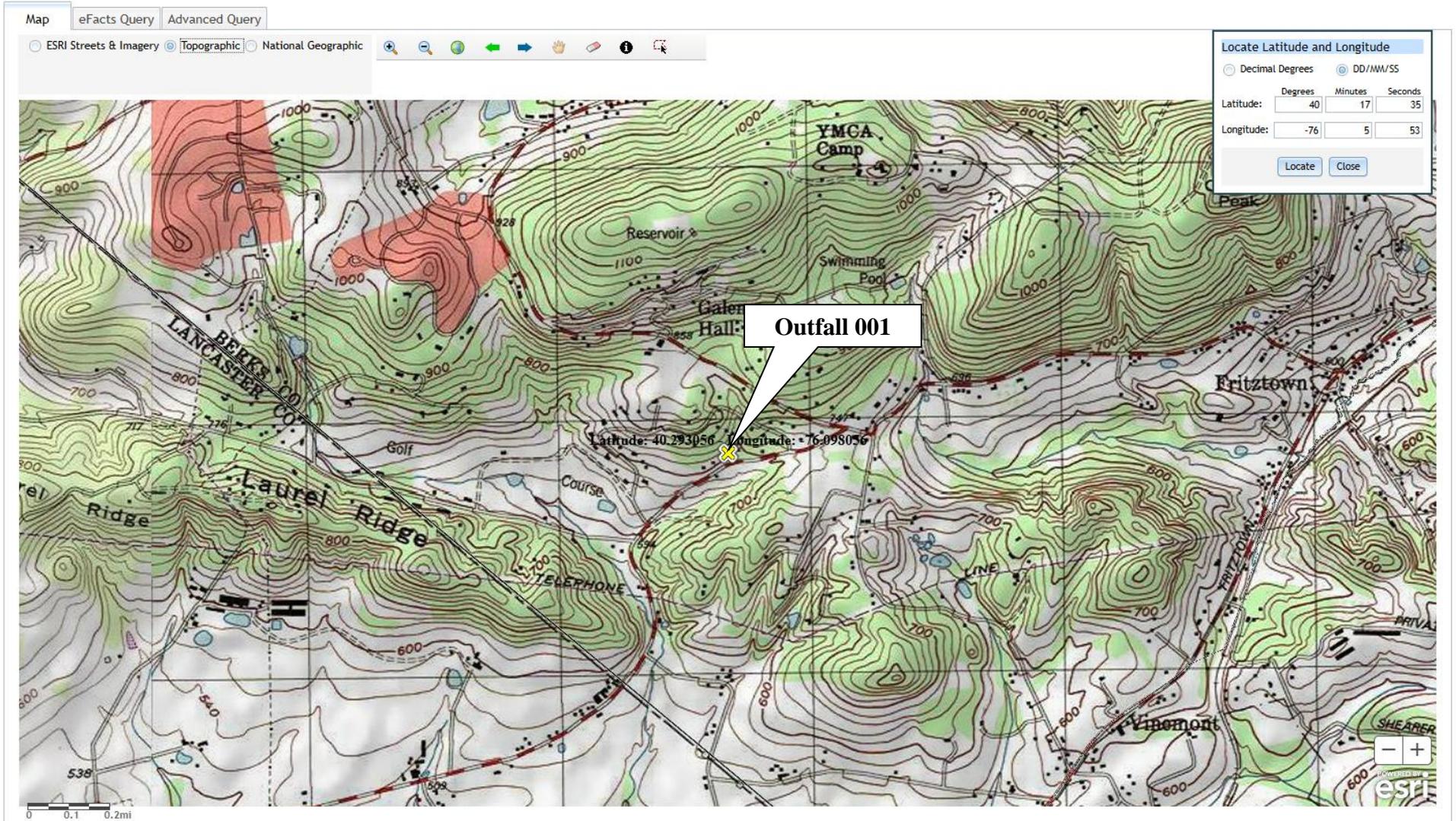
The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). 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) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
CBOD <sub>5</sub>	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/month	Grab

Compliance Sampling Location:

Other Comments:



**USGS StreamStats**  
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**BUILD A REPORT** Report Built

Step 1: You can modify computed basin characteristics here, then select the types of reports you wish to generate. Then click the "Build Report" button

Hide Basin Characteristics

Basin Characteristics can be edited here

Parameter	Value
DRNAREA	0.91
BSLOPD	9.0134
ROCKDEP	4.76
URBAN	1.6555

Select available reports to display:

- Basin Characteristics Report
- Scenario Flow Reports
- Hydrologic Features Report

Open Report

Zoom Level: 15  
Map Scale: 1:18,000  
Lat: 40.2912, Lon: -80.0000

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concerns. A full list of changes can be found at <https://www.usgs.gov/streamstats/news/streamstats-data-updates-open-source-code-release>

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
BSLOPD	Mean basin slope measured in degrees	9.0134	degrees
DRNAREA	Area that drains to a point on a stream	0.91	square miles
ROCKDEP	Depth to rock	4.76	feet
URBAN	Percentage of basin with urban development	1.6555	percent

Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 1]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
BSLOPD	Mean Basin Slope degrees	9.0134	degrees	1.7	6.4
DRNAREA	Drainage Area	0.91	square miles	4.78	1150
ROCKDEP	Depth to Rock	4.76	feet	4.13	5.21
URBAN	Percent Urban	1.6555	percent	0	89

Low-Flow Statistics Disclaimers [Low Flow Region 1]

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 1]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.427	ft <sup>3</sup> /s
30 Day 2 Year Low Flow	0.485	ft <sup>3</sup> /s
7 Day 10 Year Low Flow	0.227	ft <sup>3</sup> /s
30 Day 10 Year Low Flow	0.268	ft <sup>3</sup> /s
90 Day 10 Year Low Flow	0.314	ft <sup>3</sup> /s

Batch Processor Report About Help

Layers

- Base Maps
- Application Layers
- National Layers
- NID Regulation Points
- PA Map Layers

Highland

CAMP RD

GRANDVIEW RD

POOL AC

CUSHION PEAK RD

E GALLEN HALL RD

Recessing Creek

FRITZTOWN RD

Vinemont

Leaflet | U.S. Department of the Interior | U.S. Geological Survey | Polaris