pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southcentral Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0261611**
Wastewater Type	**Sewage**	APS ID	**739037**
Facility Type	**SRSTP**	Authorization ID	**1442303**

NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP

Applicant, Facility and Project Information

Applicant Name	**Robert E. Plank**	Facility Name	**Robert Plank Res**
Applicant Address	477 Herrs Ridge Road Gettysburg, PA 17325-8821	Facility Address	477 Herrs Ridge Road Gettysburg, PA 17325-8821
Applicant Contact	Robert Plank	Facility Contact	Robert Plank
Applicant Phone	(717) 752-0725	Facility Phone	(717) 752-0725
Client ID	284934	Site ID	743720
SIC Code	6514,8811	Municipality	Cumberland Township
SIC Description	Fin, Ins & Real Est - Dwelling Operators, Except Apartments,Services - Private Households	County	Adams
Date Application Received	June 1, 2023	WQM Required	N/A
Date Application Accepted	June 1, 2023	WQM App. No.	
Project Description	NPDES Permit Renewal.		

Summary of Review

Marshall Engineering, Inc., on behalf of the Robert E. Plank, applied to the Pennsylvania Department of Environmental Protection (DEP) for issuance of the NPDES permit. The existing NPDES permit, issued on October 25, 2018, authorizes the discharge of treated sewage from the Single Residence Sewage Treatment Plant (SRSTP) located in Cumberland Township, Adams County. The permit became effective on November 1, 2018, expired on October 31, 2023.

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

The WQM Part II No. 0110406 issued on May 27, 2011.

Changes from the previous permit: N/A

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	September 29, 2023
X		/s/ Daniel W. Martin, P.E. / Environmental Engineer Manager	October 11, 2023

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.0004
Latitude	39º 51' 54.18"	Longitude	-77º 15' 2.21"
Quad Name	Fairfield	Quad Code	
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary to Willoughby Run (WWF)	Stream Code	58935
NHD Com ID	53319856	RMI	1.35 miles
Drainage Area	0.06 mi.^{2}	Yield (cfs/mi^2)	0.004
Q_{7-10} Flow (cfs)	0.000254	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	185	Slope (ft/ft)	
Watershed No.	13-D	Chapter 93 Class.	WWF
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	Mason-Dixon Utilities, Inc.		
PWS Waters	Marsh Creek	Flow at Intake (cfs)	
PWS RMI	34.39 miles	Distance from Outfall (mi)	Approximate 12.0 miles

Changes Since Last Permit Issuance: none

Stream Flow:
According to StreamStats, the discharge point has a Q_{7-10} of 0.000254 cfs and a drainage area of 0.06 mi.^{2}, which results in a Q_{7-10} low flow yield of 0.004 cfs/mi.^{2}. The resulting Q_{7-10} dilution ratio is: Q_{stream} / $Q_{discharge}$ = 0.000254 cfs / [0.0004 MGD * (1.55 cfs/MGD)] = 0.41:1

Unnamed Tributary to Willoughby Run:
Under 25 Pa Code § 93.9z, Unnamed Tributary to Willoughby Run is designated as warm water fishes and migratory fishes (WWF & MF). No special protection water(s) is impacted by this discharge. No Class A Wild Trout fishery is impacted by this discharge.

Public Water Supply:
The fact sheet prepared for the renewal permit indicated that the nearest downstream public water supply intake is Mason-Dixon Utilities, Inc. located on Marsh Creek, approximately 12.0 miles from the discharge. Considering dilution, the discharge is not expected to impact the water supply.

Compliance History	
Summary of DMRs:	There were no Annual Maintenance Reports available for review. The lab test results of discharge with application on August 23, 2023 were 4.02 mg/L of BOD_5, < 10 No./100 mL of Fecal Coliform, and 18.0 mg/L of TSS (the attachment is in this factsheet, page 5).
Summary of Inspections:	6/04/2021: Mr. Bettinger, DEP Water Quality Specialist, conducted an administrative inspection. There were violations noted during inspection: Department did not receive an Annual Maintenance Report for the 2019-2020 monitoring year. The recommendations were to submit a sample of the discharge to a testing laboratory by May 31 each year, and an Annual Maintenance Report (AMR) by June 30 each year.
Other Comments:	There were four open violations associated with the permittee such as one (1) 92A.61(C), two (2) 92A.41 (A)12B, and one (1) 92A.41 (A)5 on 6/4/2021.

Treatment Facility Summary

The facility is located in Cumberland Township, Adams County. The treatment system which serves a single residence (400 GPD) consists of a 1,000-gallon two (2) compartments septic tank, a Polylock effluent filter, an Ecoflo STB-650, UV disinfection, and the outfall to an unnamed tributary of Willoughby Run.

The WQM Part II No. 0110406 issued on May 27, 2011.

Development of Effluent Limitations and Monitoring Requirements

The proposed effluent limitations and monitoring requirements 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 on May 17, 2019, version 1.8). Based on the proposed requirements, the permittee will no longer be required to monitor for pH.

Biochemical Oxygen Demand (BOD_5): Only the minimum treatment requirements of secondary treatment will be necessary to protect water quality. The limits of 25.0 mg/L average monthly and 50.0 mg/L instantaneous maximum will remain in the proposed permit.

Total Suspended Solids (TSS): The existing limits of 30.0 mg/L average monthly and 60.0 mg/L instantaneous maximum will remain in the proposed permit based on the minimum level of effluent quality attainable by secondary treatment based on 25 Pa. Code § 92a.47

For Flow, it is not necessary to perform daily maximum monitoring since the treated effluent is less than 2,000 GPD. The permit included a non-seasonal fecal coliform limit of 200 / 100 ml which is more stringent than the seasonal fecal limits (200 / 100 ml for summer; and 10,000 / 100 ml for winter). The reviewer notes that the frequency of sampling for Flow & Fecal Coliform are recommended to remain the same as the existing permit.

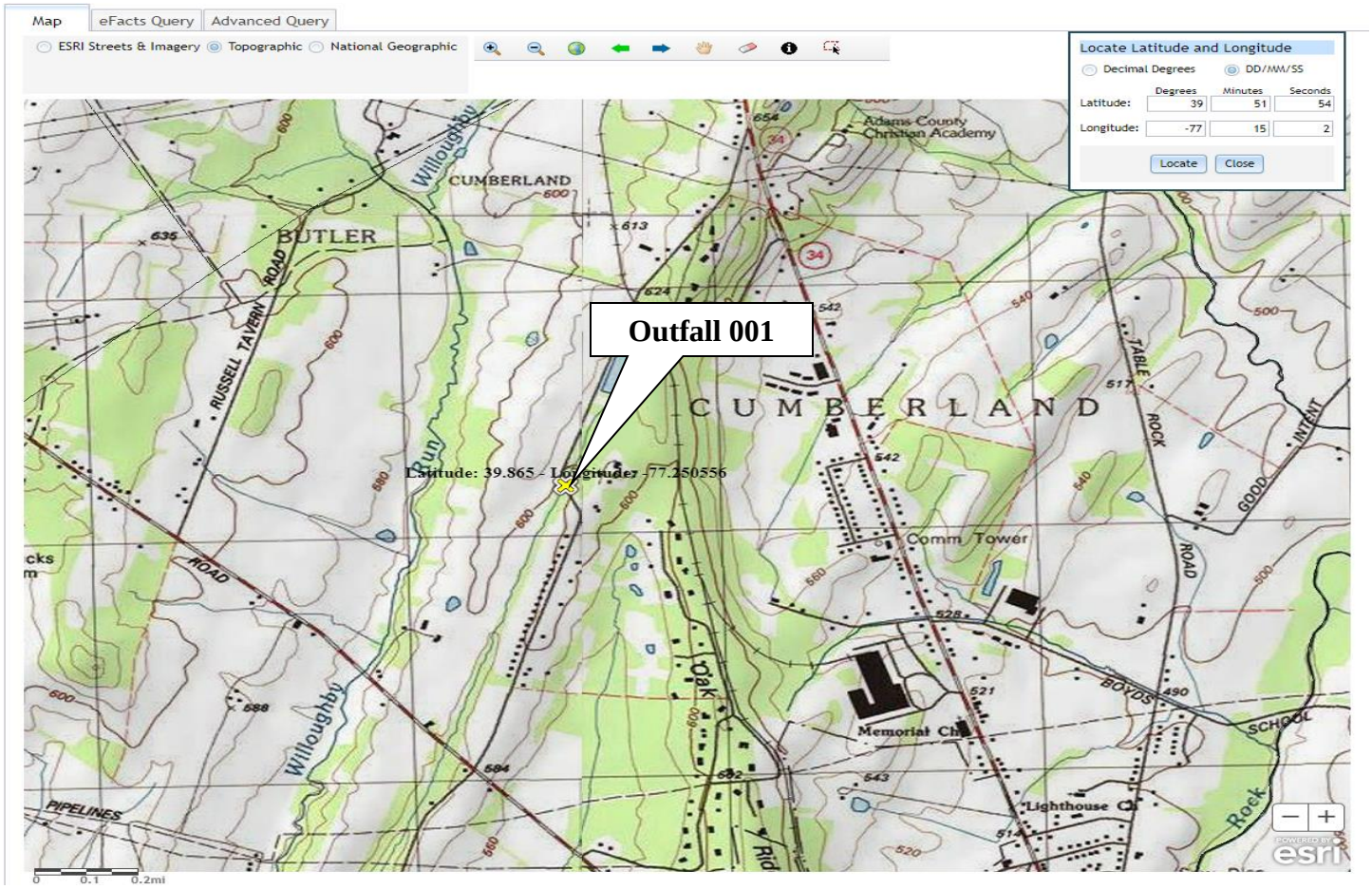
The facility utilizes UV disinfection.

This facility is exempt from the Chesapeake Bay requirements for Total Nitrogen and Total Phosphorus because the flow is less than 2,000 gpd.

303d Listed Streams:
eMapPA indicates that the receiving stream is impaired for siltation due to agriculture. A "tentative" TMDL currently exists for this impairment.

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. No High-Quality Waters are impacted by this discharge. No Exceptional Value Waters are impacted by this discharge.

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


Map
eFacts Query
Advanced Query
ESRI Streets & Imagery
Topographic
National Geographic
Locate Latitude and Longitude
Decimal Degrees
DD/MM/SS
Degrees Minutes Seconds
Latitude: 39 51 54
Longitude: -77 15 2
Locate
Close
Outfall 001
Latitude: 39.865 - Longitude: -77.250556
CUMBERLAND
BUTLER
Adams County Christian Academy
Comm Tower
Memorial Ch
Lighthouse Ch
RUSSELL TAVERN ROAD
TABLE ROCK ROAD
GOOD INTENT ROAD
BOYDS SCHOOL ROAD
Willoughby Run
Oak
PIPELINES
Rock
0 0.1 0.2mi
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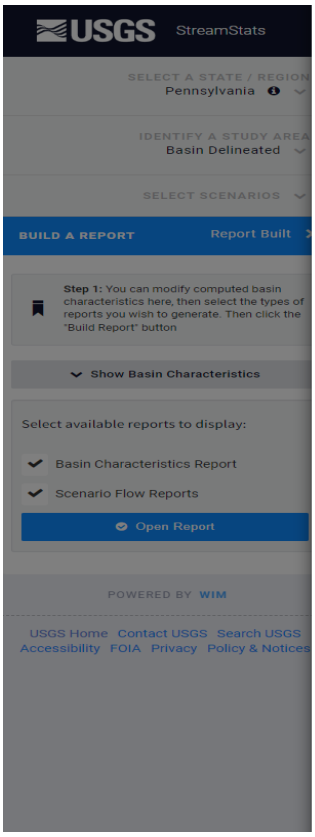
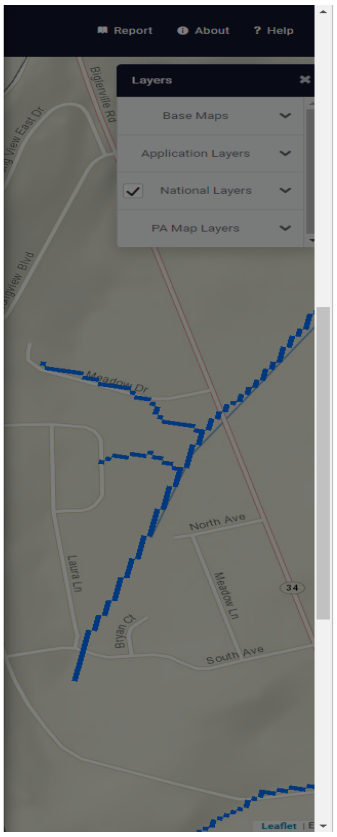

USGS StreamStats
SELECT A STATE / REGION
Pennsylvania
IDENTIFY A STUDY AREA
Basin Delineated
SELECT SCENARIOS
BUILD A REPORT
Report Built
Step 1: You can modify computed basin characteristics here, then select the types of reports you wish to generate. Then click the "Build Report" button
Show Basin Characteristics
Select available reports to display:
Basin Characteristics Report
Scenario Flow Reports
Open Report
POWERED BY WIM
USGS Home Contact USGS Search USGS
Accessibility FOIA Privacy Policy & Notices


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 | 0.0607 | square miles
PRECIP | Mean Annual Precipitation | 41 | inches
ROCKDEP | Depth to rock | 4 | feet
STRDEN | Stream Density -- total length of streams divided by drainage area | 5.91 | 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 | 0.0607 | square miles | 4.93 | 1280
PRECIP | Mean Annual Precipitation | 41 | inches | 35 | 50.4
STRDEN | Stream Density | 5.91 | miles per square mile | 0.51 | 3.1
ROCKDEP | Depth to Rock | 4 | 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 | 0.000983 | ft^3/s
30 Day 2 Year Low Flow | 0.00165 | ft^3/s
7 Day 10 Year Low Flow | 0.000254 | ft^3/s
30 Day 10 Year Low Flow | 0.00043 | ft^3/s
90 Day 10 Year Low Flow | 0.000876 | ft^3/s


Report
About
Help
Layers
Base Maps
Application Layers
National Layers
PA Map Layers
Meadow Dr
North Ave
South Ave
Laura Ln
Meadow Ln
Leaflet

FRANKLIN ANALYTICAL INC.

419 LIMEKILN DRIVE • CHAMBERSBURG, PA 17201
PHONE (717) 263-9970 • FAX (717) 263-9946 • PA DEP ID #28-00575

Analytical Report

Work Order: FAI072723023 **Wednesday, August 23, 2023**

For: Rosenberry's Septic Service
8885 Pineville Road
Shippensburg, PA 17257

Client: 477 Herrs Ridge Road
Gettysburg, PA 17325

Sample #: FAI072723-023-01 **Location:** Outfall

Sample Date: 7/27/2023 **Sampler:** MD
Sample Time: 12:00 PM **Matrix:** Waste Water

Parameter	Result	Units	Method	Qualifier	RL	Analyst	Test Date	Test Time	Prep Date	Prep Time
CBOD	4.02	mg/l	SM 5210B		2	SS	8/1/2023	4:50 PM	7/27/2023	4:30:00
Coliform, Fecal	<10	col/100ml	SM 9222 D	E		SS	7/28/2023	2:20 PM	7/27/2023	4:00:00
Solids, Total Suspended	18.0	mg/l	SM 2540 D		2	KS	8/1/2023	5:30 PM		

Suzanne F. Shaeffer:
Laboratory Director

This report relates only to the sample(s) as received by the laboratory.

QUALIFIER CODES
B: BLANK CONTAMINATION E: ESTIMATED J: BETWEEN DETECTION AND REPORTING LIMIT U: NOT DETECTED

THE KEY TO OUR BOTTOM LINE IS PROFESSIONAL ACCURACY.

Existing Effluent Limitations and Monitoring Requirements

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly		Minimum	Average Monthly		Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/6 months	Estimate
CBOD5	XXX	XXX	XXX	25	XXX	50	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	30	XXX	60	1/6 months	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/6 months	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	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/6 months	Estimate
BOD_5	XXX	XXX	XXX	25.0	XXX	50.0	1/6 months	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60.0	1/6 months	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/6 months	Grab

Compliance Sampling Location:

Other Comments: