pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northcentral Regional Office
CLEAN WATER PROGRAM

Application Type	**New**	Application No.	**PA0233218**
Wastewater Type	**Sewage**	APS ID	**1056937**
Facility Type	**SRSTP**	Authorization ID	**1385353**

NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP

Applicant, Facility and Project Information

Applicant Name	**Deryk R. Spicher**	Facility Name	**Spicher SRSTP**
Applicant Address	25 Spruce Street	Facility Address	784 Old Bliss Run Road
	Force, PA 15841-1015		Penfield, PA 15849-3606
Applicant Contact	Deryk Spicher	Facility Contact	Deryk Spicher
Applicant Phone	(814) 787-4265	Facility Phone	(814) 787-4265
Client ID	368234	Site ID	855290
SIC Code	4952	Municipality	Huston Township
SIC Description	Trans. & Utilities - Sewerage Systems	County	Clearfield
Date Application Received	February 15, 2022	WQM Required	Yes, application has been submitted
Date Application Accepted	March 10, 2022	WQM App. No.	1722401
Project Description	Permitting and construction for a new single residence sewage treatment plant.		

Overview

The applicant has proposed construction of a single residence sewage treatment plant ("SRSTP") on a newly subdivided parcel of land that recent testing determined is not suitable for on lot disposal. DEP is in receipt of the NPDES permit application for approval to discharge and the associated WQM permit application for construction and operation of the SRSTP. Issuance of both permits will be coordinated.

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
X		*Derek S. Garner* Derek S. Garner / Project Manager	June 22, 2022
X		*Nicholas W. Hartranft* Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	June 23, 2022

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.0005
Latitude	41º 12' 15.37"	Longitude	-78º 38' 57.30"
Quad Name	Sabula	Quad Code	41078
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary to Mountain Run	Stream Code	24942
NHD Com ID	61432356	RMI	0.8
Drainage Area	0.99	Yield (cfs/mi^2)	0.004
Q_{7-10} Flow (cfs)	0.004	Q_{7-10} Basis	Streamstats (attached)
Elevation (ft)	1303	Slope (ft/ft)	n/a
Watershed No.	8-A	Chapter 93 Class.	CWF, MF
Existing Use	n/a	Existing Use Qualifier	n/a
Exceptions to Use	n/a	Exceptions to Criteria	n/a
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	n/a		
Source(s) of Impairment	n/a		
TMDL Status	Final	Name	Bennett Branch Sinnemahoning Creek (1)
Nearest Downstream Public Water Supply Intake	PA American Water Company		
PWS Waters	West Branch Susquehanna River	Flow at Intake (cfs)	695
PWS RMI	10.66	Distance from Outfall (mi)	130.42

(1) The Bennett Branch Sinnemahoning Creek TMDL addresses impairment from low pH and high concentrations of aluminum, iron, and manganese caused by abandoned mine drainage throughout the watershed. An SRSTP is not expected to contribute to these impairments. Accordingly, the TMDL should not impact the proposed effluent limits.

Facility Description

The proposed SRSTP will be constructed and operated under coverage from WQM Permit No. 1722401. The SRSTP will consist of; one two-compartment 1,000-gallon septic tank, one Polylok PL-122 effluent filter, one Ecoflo EC7-500-P Coco filter unit, and one Premier Tech DiUV disinfection unit. The treated effluent will ultimately be discharged via Outfall 001 to an unnamed tributary to Mountain Run.

Compliance History

This is a proposed facility, there is no compliance history.

Development of Effluent Limitations and Monitoring Requirements

The following limitations, sample types, and frequencies are based on obtainable tertiary treatment standards for properly installed and maintained SRSTP systems (*Small Flow Treatment Facilities Manual (362-0300-002, 12/2/2006)*):

Parameter	Avg Annual	IMAX	Sample Type	Frequency
Flow (GPD)	Report	XXX	Estimate	1/year
BOD5 (mg/l)	10	20	Grab	1/year
TSS	10	20	Grab	1/year
Fecal Coliform (No./100 ml)	200	XXX	1/year	1/year

DEP generally does not require UV intensity or transmittance monitoring for SRSTP UV systems. Fecal coliform results within permit effluent limits are indicative of properly operating UV systems.

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 for conventional 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)		Concentrations (mg/L)				Minimum 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
BOD5	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	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001

StreamStats Output Report

State/Region ID	PA
Workspace ID	PA20220622171621400000
Latitude	41.20484
Longitude	-78.64956
Time	6/22/2022 1:16:41 PM

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
BSLOPD	Mean basin slope measured in degrees	8.2028	degrees
BSLOPDRAW	Unadjusted basin slope, in degrees	8.4263	degrees
BSLPDRPA20	Unadjusted basin slope, in degrees, from PA v1	11.109	degrees
CARBON	Percentage of area of carbonate rock	0	percent
CENTROXA83	X coordinate of the centroid, in NAD_1983_Albers, meters	-54378.9341	meters
CENTROYA83	Basin centroid horizontal (y) location in NAD 1983 Albers	244323.468	meters
DRN	Drainage quality index from STATSGO	3	dimensionless
DRNAREA	Area that drains to a point on a stream	0.99	square miles
ELEV	Mean Basin Elevation	1655	feet
ELEVMAX	Maximum basin elevation	1819	feet
FOREST	Percentage of area covered by forest	70.5664	percent
GLACIATED	Percentage of basin area that was historically covered by glaciers	0	percent
IMPNLCD01	Percentage of impervious area determined from NLCD 2001 impervious dataset	0.1799	percent
LC01DEV	Percentage of land-use from NLCD 2001 classes 21-24	3.2864	percent
LC11DEV	Percentage of developed (urban) land from NLCD 2011 classes 21-24	3.2864	percent
LC11IMP	Average percentage of impervious area determined from NLCD 2011 impervious dataset	0.1812	percent
LONG_OUT	Longitude of Basin Outlet	-78.649558	degrees
MAXTEMP	Mean annual maximum air temperature over basin area from PRISM 1971-2000 800-m grid	57.2	degrees F
OUTLETXA83	X coordinate of the outlet, in NAD_1983_Albers,meters	-54472.6723	meters
OUTLETYA83	Y coordinate of the outlet, in NAD_1983_Albers, meters	245017.2472	meters
PRECIP	Mean Annual Precipitation	43	inches
ROCKDEP	Depth to rock	4	feet
STORAGE	Percentage of area of storage (lakes ponds reservoirs wetlands)	0.04	percent
STRDEN	Stream Density -- total length of streams divided by drainage area	0.7	miles per square mile
STRMTOT	total length of all mapped streams (1:24,000-scale) in the basin	0.7	miles
URBAN	Percentage of basin with urban development	0.2261	percent

Low-Flow Statistics Parameters	99.9 Percent Low Flow Region 5				
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.99	square miles	4.84	982
PRECIP	Mean Annual Precipitation	43	inches	33.1	47.1
GLACIATED	Percent of Glaciation	0	percent	0	100
FOREST	Percent Forest	70.5664	percent	41	100

Low-Flow Statistics Flow Report	99.9 Percent Low Flow Region 5	
Statistic	Value	Unit
7 Day 2 Year Low Flow	0.0231	ft^3/s
30 Day 2 Year Low Flow	0.0427	ft^3/s
7 Day 10 Year Low Flow	0.00407	ft^3/s
30 Day 10 Year Low Flow	0.0104	ft^3/s
90 Day 10 Year Low Flow	0.0229	ft^3/s