

 Application Type
 New

 Wastewater Type
 Sewage

 Facility Type
 SRSTP

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

 Application No.
 PA0292818

 APS ID
 1078715

 Authorization ID
 1422993

Applicant, Facility and Project Information

Applicant Name	Debra a	& Henry Speerstra	Facility Name	Debra & Henry Speerstra SRSTP
Applicant Address	2384 H	orsecreek Road	Facility Address	2244 US Route 62
	Oil City	PA 16301		Oil City, PA 16301-4118
Applicant Contact	Debra S	Speerstra	Facility Contact	
Applicant Phone	(814) 60)9-6328	Facility Phone	
Client ID	141933		Site ID	860651
SIC Code	8800		Municipality	Cranberry Township
SIC Description	Private	Households	County	Venango
Date Application Receiv	ved	December 27, 2022	WQM Required	Yes
Date Application Accep	oted	January 19, 2023	WQM App. No.	6122408
Project Description		Single Residence Sewage Tre	eatment Plant	

Summary of Review

This is a new discharge for an existing 3 bedrooms dwelling with proposed construction of a single residence sewage treatment plant to replace a malfunctioning on-lot sewage disposal system.

Proposed treatment will consist of (WQM Permit No. 6122408): Premier Tech EC7-500-P-P-PACK coco filter with integrated septic tank capacity, DiUV disinfection unit and pump. The treated effluent will discharge into a drainage channel to Sage Run. There appears to be 17 water wells within 200 feet of the drainage channel between the discharge point and perennial condition. The water runs underground through buried pipes past approximately 15 of the 17 wells. The sewage flow is directed through the components of the system so that the treated effluent from the outfall pipe is usually a trickle. The effluent infiltrates into the channel bottom during dry periods not far from the point of discharge.

Act 14 - Proof of Notification was submitted and received.

SPECTIAL CONDITIONS: NONE

The EPA waiver is in effect.

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
х		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer Trainee	January 19, 2023
х		Adam J. Pesek (Lead Reviewer) for Vacant / Environmental Engineer Manager	January 23, 2023

Discharge, Receiving Waters and Water Supply Infor	mation	
		000.4
Outfall No. 001	Design Flow (MGD)	.0004
Latitude <u>41° 24' 23.82"</u>	Longitude	-79º 39' 37.75"
Quad Name Oil City	Quad Code	41079D6
Wastewater Description: Sewage Effluent		
Receiving Waters Sage Run (CWF)	Stream Code	54711
NHD Com ID 100476475	RMI	0.85 (Approximately)
Drainage Area	 Yield (cfs/mi²)	
Q ₇₋₁₀ Flow (cfs) 0	Q ₇₋₁₀ Basis	Dry Stream
Elevation (ft) 1427	Slope (ft/ft)	
Watershed No. 16-E	Chapter 93 Class.	CWF
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	
Background/Ambient Data	Data Source	
pH (SU)	Default	
Temperature (°C) 20	Default	
Hardness (mg/L)100	Default	
Other:		
Nearest Downstream Public Water Supply Intake	Aqua Pennsylvania, Inc Em	
PWS Waters Allegheny River	_ Flow at Intake (cfs)	1376
PWS RMI 90	Distance from Outfall (mi)	45.75 (Approximately)

Changes Since Last Permit Issuance: N/A -This is a proposed discharge (Planning was approved on December 23, 2022)

Other Comments: This SRSTP was designed where applicable in accordance with the SFTF Manual, but it does not qualify for the PAG-04 General Permit due to the use of a Premier Tech EC7-500-P-P PACK Coco filter unit.

The Premier Tech EC7-500-P-P PACK Coco filter is reportedly capable of meeting CBOD5 averages of 10 mg/L and TSS averages of 10 mg/L.

In accordance with the SOP, no water quality modeling was performed since this is a SRSTP.

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.

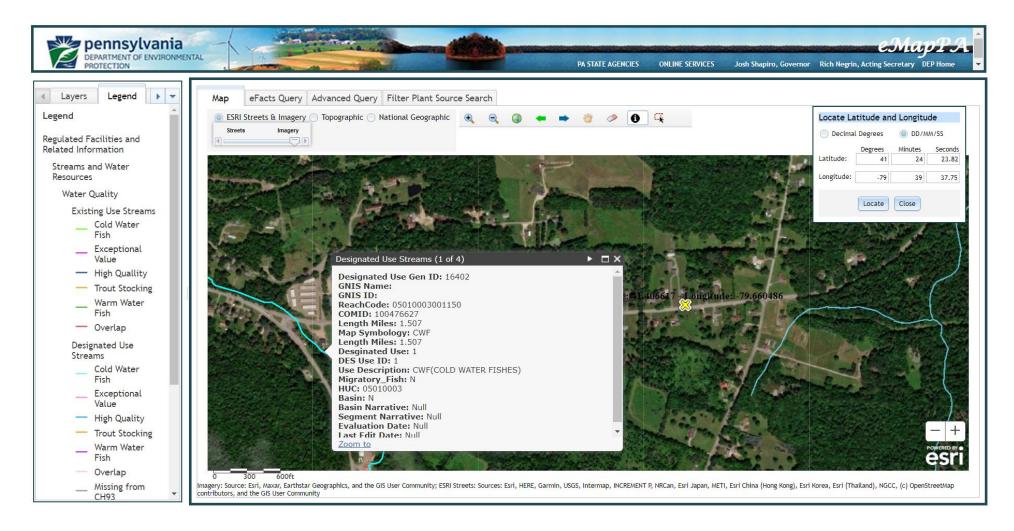
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

	Effluent Limitations						Monitoring Requirements	
Parameter	Mass Units (Ibs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾	Required
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum	Measurement Sa	Sample Type
Flow (GPD)	Report Annl Avg	xxx	xxx	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	xxx	9.0	Upon Request	Grab
BOD5	ХХХ	XXX	XXX	10.0	XXX	20	1/year	Grab
TSS	ххх	xxx	xxx	10.0	xxx	20	1/year	Grab
Fecal Coliform (No./100 ml)	ХХХ	XXX	XXX	200	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001, after UV Disinfection.

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD5 and Total Suspended Solids are BPJ-Based on the Department's "Small Flow Treatment Facilities Manual." Fecal Coliform are technology-based on Chapter 92a.47. The limits for pH are technology-based on Chapter 93.7.

Outfall Location - eMap with Aerial Imagery



Drainage Area Location – StreamStats with Aerial Imagery

StreamStats Report

 Region ID:
 PA

 Workspace ID:
 PA20230119175721104000

 Clicked Point (Latitude, Longitude):
 41.40664, -79.66049

 Time:
 2023-01-19 12:57:43 -0500



Collapse All

> Basin Characterist	tics		
Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.000116	square miles