

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0245542
APS ID 1148222
Authorization ID 1545553

Applicant, Facility and Project Information

Applicant Name <u>Ryan Hoffman</u>	Facility Name <u>620 W Seven Stars Rd</u>
Applicant Address <u>620 West Seven Stars Road</u>	Facility Address <u>620 West Seven Stars Road</u>
<u>Phoenixville, PA 19460</u>	<u>Phoenixville, PA 19460</u>
Applicant Contact <u>Ryan Hoffman</u>	Facility Contact <u>Ryan Hoffman</u>
Applicant Phone <u>(610) 420-9087</u>	Facility Phone <u>(610) 420-9087</u>
Client ID <u>393032</u>	Site ID <u>879221</u>
SIC Code <u>8811</u>	Municipality <u>East Vincent Township</u>
SIC Description <u>Services - Private Households</u>	County <u>Chester</u>
Date Application Received <u>October 10, 2025</u>	WQM Required <u>Yes</u>
Date Application Accepted _____	WQM App. No. <u>1525405</u>
Project Description <u>New Individual SRSTP application.</u>	

Summary of Review

The applicant requests approval of a new individual NPDES SRSTP permit to discharge 400 gallons per day (gpd) of treated sewage from 620 W Seven Stars Rd SRSTP to UNT to French Creek (HQ-TSF, MF).

The treatment plant will consist of the Ecoflo coco filter treatment system with UV disinfection (EC7-600-P-P: changed from EC7-500-P-P as stated in application). The system consists of a pack unit comprising a primary settling tank, a coconut husk filter chamber, a lift pump, and a UV disinfection chamber capable of treating 400 gpd of domestic strength wastewater based on the below table:

Approve	Deny	Signatures	Date
X		<i>Amy Boginsky</i> Amy Boginsky, MS, EIT / Environmental Engineering Specialist	November 13, 2025
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	11/20/2025

Summary of Review

Premier Tech Ecoflow Series	EC7	EC7	EC7	EC7	EC7	EC7
Model	EC7-600	EC7-750	EC7-1050	EC7-1050	EC7-1350	EC7-1350
Units	3.4	4.1	5.7	5.7	7.3	7.3
Rated capacity with a loading rate of 12.25 gpd/ft ² (gpd)	450	530	750	750	950	950
Loading per unit (gpd/ft ² /unit) ²	132.4	129.3	131.6	131.6	130.1	130.1
Number of bedrooms	3	4	5	6	7	8
PA design flow requirement	400	500	600	700	800	900

¹Note: The EC7-500 (2.8 model) cannot be used in any residential application. The actual equivalent capacity at the EC5 loading is only 370 gpd.

²A loading rate was not provided for the EC7-1350. However, assuming a similar loading rate as the other offerings results in the EC7-1350 effectively handling 950 gpd.

The SFTF discharge point will be via a 2" PVC pipe to riprap apron at the stream bank to French Creek (HQ-TSF).

To match other SRSTPs that discharge HQ waters, the below limits on page 4 will apply.

Act 14 Notifications:

Chester County Health Department - August 5, 2025
East Vincent Township - August 5, 2025

Proposed Part C Conditions:

- I. Other Requirements
 - A. AMR to DEP
 - B. DMR to DEP if Attached
 - C. 1/year Measure Depth of Septage and Scum
 - D. Septic Tanks Pumped out Every Three Years
 - E. Total Residual Chlorine Requirement
 - F. No Stormwater
 - G. Necessary Property Rights
 - H. Proper Sludge Disposal
 - I. Abandon STP when Municipal Sewers Available

II. UV Disinfection

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.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0004</u>
Latitude	<u>40° 9' 13.83"</u>	Longitude	<u>-75° 35' 18.36"</u>
Quad Name	<u>Phoenixville</u>	Quad Code	<u>1741</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to French Creek (HQ-TSF, MF)</u>	Stream Code	<u>01556</u>
NHD Com ID	<u>25989448</u>	RMI	<u>0.6100</u>
Drainage Area	<u>0.24 mi²</u>	Yield (cfs/mi ²)	<u>0.01604</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.00385</u>	Q ₇₋₁₀ Basis	<u>StreamStats</u>
Elevation (ft)	<u>225.98</u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>3-D</u>	Chapter 93 Class.	<u>HQ-TSF, MF</u>
Existing Use	<u>Aquatic life</u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Attaining Use(s)</u>		
Nearest Downstream Public Water Supply Intake	<u>Camphill Special School Beaver Farm</u>		
PWS Waters	<u></u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u>0.38</u>

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 (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/year	Grab
DO	XXX	XXX	6.0 Inst Min	XXX	XXX	XXX	1/year	Grab
CBOD5* Nov 1 - Apr 30	XXX	XXX	XXX	20.0	XXX	40	1/year	Grab
CBOD5* May 1 - Oct 31	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	1000	1/year	Grab
Ammonia* Nov 1 - Apr 30	XXX	XXX	XXX	6.0	XXX	12	1/year	Grab
Ammonia* May 1 - Oct 31	XXX	XXX	XXX	2.0	XXX	4	1/year	Grab

Compliance Sampling Location: Outfall 001

*For CBOD5 and Ammonia, only one sample is required to be taken per year. The time period when this sample is taken determines what limit applies (Nov 1-Apr 30 or May 1-Oct 31).