

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SFTF/SRSTP**

Application No. PA0295256  
APS ID 1094929  
Authorization ID 1451011

**Applicant, Facility and Project Information**

Applicant Name	<u>Jonathan Bees</u>	Facility Name	<u>Jonathan Bees SRSTP</u>
Applicant Address	<u>51 Willadell Road</u> <u>Transfer, PA 16154</u>	Facility Address	<u>51 Willadell Road</u> <u>Transfer, PA 16154</u>
Applicant Contact	<u>Jonathan Bees</u>	Facility Contact	<u></u>
Applicant Phone	<u>(724) 919-3719</u>	Facility Phone	<u></u>
Client ID	<u>379287</u>	Site ID	<u>864366</u>
SIC Code	<u>8800</u>	Municipality	<u>Delaware Township</u>
SIC Description	<u>Private Households</u>	County	<u>Mercer</u>
Date Application Received	<u>July 21, 2023</u>	WQM Required	<u>Yes – Application Received</u>
Date Application Accepted	<u></u>	WQM App. No.	<u>4323413</u>

Project Description This is an application for a new Single Residence Sewage Treatment Plant (SRSTP) which will serve an existing dwelling.

**Summary of Review**

This is a new discharge which will serve an existing 3-bedroom home and replace an existing malfunctioning on-lot septic system.

Act 14 – Notification was submitted and received.

Treatment at this facility will consist of (WQM Permit No. 4323413): A Norweco Singulair Bio-Kinetic Model 960-500/600 GPD Wastewater Treatment System with a Norweco Singulair Hydro-Kinetic Bio-Film Reactor. The system consists of two separate treatment tanks. The first tank has a volume of 1,300 gallons and houses a 450-gallon pretreatment chamber, an extended aeration chamber with a Norweco Singulair Model 206C aerator, and a final clarification chamber with a bio-kinetic system and a bio-static sludge return. The second tank houses a hydro-kinetic bio-film reactor, an in-line Norweco Model AT 1500 UV Disinfection Unit, and a 500-gallon chamber.

There are no open violations in WMS for the subject Client ID (379287) as of 8/22/2023. [8/28/2023 CWY](#)

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
X		Dustin Hargenrater Dustin Hargenrater / Civil Engineer Trainee	August 22, 2023
X		Chad W. Yurisc Chad W. Yurisc, P.E. / Environmental Engineer Manager	8/28/2023

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0004</u>
Latitude	<u>41° 17' 43.4"</u>	Longitude	<u>-80° 22' 50.2"</u>
Quad Name	<u>Sharpsville</u>	Quad Code	<u>41080C4</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Shenango River (WWF)</u>	Stream Code	<u>35482</u>
NHD Com ID	<u>130034415</u>	RMI	<u>0.1100</u>
Drainage Area	<u>0.00075</u>	Yield (cfs/mi <sup>2</sup> )	<u>0</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0</u>	Q <sub>7-10</sub> Basis	<u>Dry Stream</u>
Elevation (ft)	<u>974</u>	Slope (ft/ft)	<u>--</u>
Watershed No.	<u>20-A</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Not Assessed</u>		
Cause(s) of Impairment	<u></u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u></u>	Name	<u></u>
Background/Ambient Data		Data Source	
pH (SU)	<u>7.0</u>	Default	<u></u>
Temperature (°F)	<u>75</u>	Default	<u></u>
Hardness (mg/L)	<u></u>		<u></u>
Other:	<u></u>		<u></u>
Nearest Downstream Public Water Supply Intake	<u>Aqua Pennsylvania, Inc. – Shenango Valley WTP</u>		
PWS Waters	<u>Shenango River</u>	Flow at Intake (cfs)	<u>143.8</u>
PWS RMI	<u>28.88</u>	Distance from Outfall (mi)	<u>13.1</u>

Changes Since Last Permit Issuance: N/A – This is a new discharge (Planning was approved on June 27, 2023)

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 the Norweco Singulair System.

The Norweco Singulair system 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 monitoring was performed since this is an 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.**

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	Annual Average	Maximum	Instant. Maximum		
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	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	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001, after disinfection.

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD5, Total Suspended Solids, and Fecal Coliform are technology-based on Chapter 92a.47. The limits for pH are technology-based on Chapter 93.7.

Attachment 1  
eMap – Location and Receiving Stream Data

The screenshot displays an eMap interface with a map showing a stream network. A popup window titled "Designated Use Streams (1 of 5)" is open, providing the following information:

- Designated Use Gen ID: 25641
- GNIS Name: Shenango River
- GNIS ID: 01046180
- ReachCode: 05030102014793
- COMID: 130034415
- Length Miles: 0.668
- Map Symbology: WWF
- Length Miles: 0.668
- Designated Use: 12
- DES Use ID: 8
- Use Description: WWF(WARM WATER FISHES)
- Migratory\_Fish: N
- HUC: 05030102
- Basin: N
- Basin Narrative: Null
- Segment Narrative: Null
- Evaluation Date: Null
- Last Edit Date: 12/20/2006 2:22:21 PM

Additional interface elements include a "Locate Latitude and Longitude" dialog box with input fields for Degrees, Minutes, and Seconds for both Latitude (41, 17, 43.4) and Longitude (-80, 22, 50.2), and a scale bar at the bottom left showing 0, 0.1, and 0.2 miles. The map also shows street names like Patricia East Dr and Jean Dr, and a "POWERED BY esri" logo in the bottom right corner.

Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; ESRI Streets: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Attachment 2  
Google Earth – Site Imagery

