

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0295761
APS ID 1110294
Authorization ID 1478396

Applicant, Facility and Project Information

Applicant Name	<u>Joy & Timothy Merrill</u>	Facility Name	<u>Joy & Timothy Merrill SRSTP</u>
Applicant Address	<u>9712 Mitchell Road</u> <u>Union City, PA 16438-9764</u>	Facility Address	<u>9712 Mitchell Road</u> <u>Union City, PA 16438-9764</u>
Applicant Contact	<u>Joy Merrill</u>	Facility Contact	<u></u>
Applicant Phone	<u></u>	Facility Phone	<u></u>
Client ID	<u>377613</u>	Site ID	<u>524047</u>
SIC Code	<u>8800</u>	Municipality	<u>Union Township</u>
SIC Description	<u>Private Households</u>	County	<u>Erie</u>
Date Application Received	<u>February 16, 2024</u>	WQM Required	<u></u>
Date Application Accepted	<u></u>	WQM App. No.	<u></u>
Project Description	<u>New NPDES permit for a Single Residence Sewage Treatment Plant (SRSTP).</u>		

Summary of Review

This is an existing discharge for an on-lot system that was previously permitted as a PAG-04, but must now be permitted individually because the receiving stream was reclassified recently as High Quality.

Act 14 – Proof of Notification was submitted and received.

Proposed treatment will consist of (WQM Permit No. 2599418 T-1): A 1000-gallon multi-chamber septic tank, 500 gallon dosing tank, 600 sq. ft. subsurface sand filter, 200 gallon chlorine detention tank with erosion tablet chlorine feeder.

The EPA Waiver is in effect.

There are no open violations in WMS for the subject Client ID (357840) as of 5/16/2024.

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		Jordan A. Frey, E.I.T. Jordan A. Frey, E.I.T. / Project Manager	May 16, 2024
X		Jason Roessing, P.E. Jason Roessing, P.E. / Environmental Engineer Manager	May 21, 2024

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° 53' 55.63"</u>	Longitude	<u>-79° 48' 38.56"</u>
Quad Name	<u>Union City</u>	Quad Code	<u>41079H7</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to South Branch French Creek (CWF)</u>	Stream Code	<u>53682</u>
NHD Com ID	<u>127353771</u>	RMI	<u></u>
Drainage Area	<u>0.29</u>	Yield (cfs/mi ²)	<u>0.1</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.029</u>	Q ₇₋₁₀ Basis	<u>Default</u>
Elevation (ft)	<u>1327</u>	Slope (ft/ft)	<u>---</u>
Watershed No.	<u>16-A</u>	Chapter 93 Class.	<u>HQ-CWF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Attaining Use(s)</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>20</u>	Default	<u></u>
Hardness (mg/L)	<u>100</u>	Default	<u></u>
Other:	<u></u>		<u></u>
Nearest Downstream Public Water Supply Intake	<u>Cambridge Spring Borough</u>		
PWS Waters	<u>French Creek</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u>49.9</u>	Distance from Outfall (mi)	<u>>25</u>

Changes Since Last Permit Issuance: This is a new permit for an existing discharge (Planning was approved on August 17, 1999).

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 Coco Filter. The proposed discharge is to resolve a repair of a malfunctioning on-lot system.

The Coco Filter unit 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.

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 (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
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/month	Grab
CBOD5	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 and Total Suspended Solids are BPJ limits based on the Small Flow Treatment Facilities Manual. Fecal Coliform is technology-based on Chapter 92a.47. The limits for pH are technology-based on Chapter 93.7.

Attachment 1
 eMap – Location Map

The screenshot displays an eMap interface with the following components:

- Map Navigation:** Includes tabs for 'Map', 'eFacts Query', and 'Advanced Query'. Below these are map style options: 'ESRI Streets & Imagery' (selected), 'Topographic', and 'National Geographic'. A toolbar contains standard map navigation icons (pan, zoom, home, etc.).
- Map Content:** Shows a topographic map with a red line representing a stream. A yellow 'X' marker is placed on the stream with the text 'Longitude: 41.898792' and 'wp' next to it. Other features include roads like 'Route 6', 'Mitchell Rd', and 'Graves St', and water bodies like 'Bentley Run' and 'Aleggheny & Eastern'.
- Data Popup:** A white popup window titled 'Designated Use Streams (1 of 4)' is open over the stream. It contains the following metadata:
 - Designated Use Gen ID: 54489
 - GNIS Name:
 - GNIS ID:
 - ReachCode: 05010004000759
 - COMID: 127353771
 - Length Miles: 0.557
 - Map Symbology: CWF
 - Length Miles: 0.557
 - Designated Use: 1
 - DES Use ID: 1
 - Use Description: CWF(COLD WATER FISHES)
 - Migratory_Fish: N
 - HUC: 05010004
 - Basin: N
 - Basin Narrative: Null
 - Segment Narrative: Null
 - Evaluation Date: Null
 - Last Fdit Date: Null
 - [Zoom to](#)
- Locate Dialog:** A 'Locate Latitude and Longitude' dialog box is open in the top right corner. It has radio buttons for 'Decimal Degrees' and 'DD/MM/SS'. It contains input fields for:

	Degrees	Minutes	Seconds
Latitude:	41	53	55.65
Longitude:	-79	48	36.68

 Below the fields are 'Locate' and 'Close' buttons.
- Map Controls:** A scale bar at the bottom left shows 0, 0.1, and 0.2 miles. The Esri logo is 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 Imagery

