

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0295442
APS ID 1100010
Authorization ID 1460156

Applicant, Facility and Project Information

Applicant Name	<u>Joseph G Snyder</u>	Facility Name	<u>Joseph G Snyder SRSTP</u>
Applicant Address	<u>386 Smittys Road</u> <u>Tidioute, PA 16351-7242</u>	Facility Address	<u>386 Smittys Road</u> <u>Tidioute, PA 16351-7242</u>
Applicant Contact	<u>Joseph Snyder</u>	Facility Contact	<u></u>
Applicant Phone	<u>(808) 232-5754</u>	Facility Phone	<u></u>
Applicant Email	<u>jgsnyde@gmail.com</u>		
Client ID	<u>380732</u>	Site ID	<u>866066</u>
SIC Code	<u>8800</u>	Municipality	<u>Deerfield Township</u>
SIC Description	<u>Private Households</u>	County	<u>Warren</u>
Date Application Received	<u>September 19, 2023</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>January 11, 2024</u>	WQM App. No.	<u>6223404</u>
Project Description	<u>Installation of a new Single Residence Sewage Treatment Plant</u>		

Summary of Review

This is a new discharge for an existing 3 bedrooms dwelling with proposed construction of a single residence sewage treatment plant. The average daily flow is projected to be 400 GPD.

Proposed treatment will consist of (WQM Permit No. 6223404): A 1,000-gallon concrete dual compartment septic tank with an effluent filter and alarm at the outlet end of the tank, a Premier Tech EC7-500-C-DiUV concrete coco filter unit with an integrated DiUV unit and pump preinstalled by the manufacturer. The treated effluent will discharge on the owner's property into the Allegheny River.

Act 14 – Proof of Notification was submitted and received.

Act 537 Sewage Facilities Planning Module Component 3s was approved by the department on September 19, 2023.

SPECIAL CONDITIONS: NONE

The EPA waiver is in effect.

There are NO open violations in WMS for the subject Client ID (380732) as of January 11, 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		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer	January 11, 2024
		Vacant / Environmental Engineer Manager	

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° 45' 1.29"</u>	Longitude	<u>-79° 18' 30.56"</u>
Quad Name	<u>Youngsville</u>	Quad Code	<u>41079G3</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Allegheny River (WWF)</u>	Stream Code	<u>42122</u>
NHD Com ID	<u>100467985</u>	RMI	<u>175.63</u>
Drainage Area		Yield (cfs/mi ²)	
Q ₇₋₁₀ Flow (cfs)	<u>0</u>	Q ₇₋₁₀ Basis	<u>StreamStats</u>
Elevation (ft)	<u>1133</u>	Slope (ft/ft)	<u>---</u>
Watershed No.	<u>16-F</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>Impaired</u>		
Cause(s) of Impairment	<u>Mercury</u>		
Source(s) of Impairment	<u>Source Unknown</u>		
TMDL Status		Name	
Background/Ambient Data		Data Source	
pH (SU)	<u>7.0</u>	Default	
Temperature (°F)	<u>68</u>	Default	
Hardness (mg/L)	<u>100</u>	Default	
Other:			
Nearest Downstream Public Water Supply Intake	<u>Aqua Pennsylvania, Inc. - Emlenton</u>		
PWS Waters	<u>Allegheny River</u>	Flow at Intake (cfs)	<u>1376</u>
PWS RMI	<u>90.0</u>	Distance from Outfall (mi)	<u>---</u>

Changes Since Last Permit Issuance: N/A -This is a proposed discharge (Planning was approved on September 19, 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 a Premier Tech EC7-500-C-DiUV coco filter unit.

The Premier Tech EC7-500-C-DiUV coco filter unit is reportedly capable of meeting BOD5 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 an SRSTP.

The Allegheny River—the receiving water for discharges from Outfall 001—is impaired by Mercury but the subject facility is not expected to be a cause or source of the impairment.

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
CBOD5	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, after UV disinfection.

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD5, 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

The screenshot displays the Pennsylvania eMapPA web application. The header includes the Pennsylvania Department of Environmental Protection logo and navigation links for state agencies, online services, and state officials. The main interface is divided into a left sidebar, a top navigation bar, and a central map area.

Legend:

- Regulated Facilities and Related Information
- Streams and Water Resources
 - Water Quality
 - Existing Use Streams
 - Cold Water Fish
 - Exceptional Value
 - High Quality
 - Trout Stocking
 - Warm Water Fish
 - Overlap
 - Designated Use Streams
 - Cold Water Fish
 - Exceptional Value
 - High Quality
 - Trout Stocking
 - Warm Water Fish
 - Overlap
 - Missing from CH93
 - Boundaries
 - County Boundaries
 - Municipalities

Map Area:

The map shows aerial imagery of a river system. A popup window titled "Designated Use Streams (1 of 4)" is open over a purple line representing a stream. The popup contains the following information:

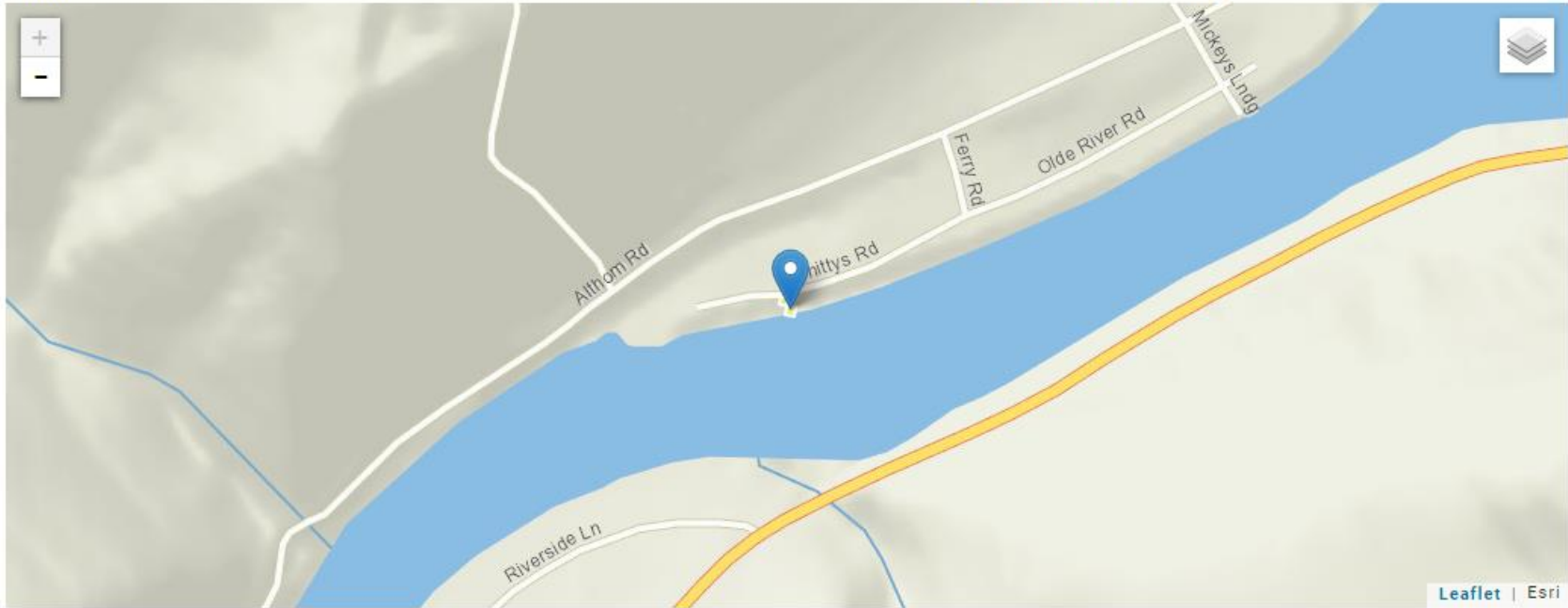
- Designated Use Gen ID: 100582
- GNIS Name: Allegheny River
- GNIS ID: 01209386
- ReachCode: 05010003000079
- COMID: 100467985
- Length Miles: 0.558
- Map Symbology: WWF
- Length Miles: 0.558
- Designated Use: 12
- DES Use ID: 8
- Use Description: WWF(WARM WATER FISHES)
- Migratory_Fish: N
- HUC: 05010003
- Basin: Y
- Basin Narrative: This is a MAINSTEM delineation. Only the segment described below is included. The tributaries to the segment are not included.
- Zoom to

A "Locate Latitude and Longitude" dialog box is also visible, showing coordinates: Latitude: 41 45 1.29 and Longitude: -79 18 30.56. The map includes a scale bar (0 to 0.2 miles) and an ESRI logo in the bottom right corner.

Drainage Area Location – StreamStats with Aerial Imagery

StreamStats Report

Region ID: PA
Workspace ID: PA20240111193449539000
Clicked Point (Latitude, Longitude): 41.75037, -79.30849
Time: 2024-01-11 14:35:16 -0500



+ Collapse All

➤ Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.0000772	square miles