

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0292729
APS ID 1077337
Authorization ID 1420473

Applicant, Facility and Project Information

Applicant Name	<u>Deborah & Michael Dudenhoefer</u>	Facility Name	<u>Deborah & Michael Dudenhoefer SRSTP</u>
Applicant Address	<u>5743 Obed Heights Drive Edinboro, PA 16412-4005</u>	Facility Address	<u>16160 Shreve Ridge Road Union City, PA 16438-7740</u>
Applicant Contact	<u>Michael Dudenhoefer</u>	Facility Contact	<u></u>
Applicant Phone	<u>(814) 440-6937</u>	Facility Phone	<u></u>
Applicant Email	<u>Mike.3dp@gmail.com</u>		<u></u>
Client ID	<u>374149</u>	Site ID	<u>859050</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>December 12, 2022</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>December 16, 2022</u>	WQM App. No.	<u>2522442</u>
Project Description	<u>Single Residence Sewage Treatment Plant</u>		

Summary of Review

Construction of a SRSTP to repair an existing malfunctioning on-lot system serving 4 bedrooms single family residence.

Proposed treatment will consist of (WQM Permit No. 2522442): Septic tank followed by EC7-500-P-P Ecoflo Coco filter treatment tank containing a UV disinfection unit and effluent discharge pump.

Act 14 – Proof of Notification was submitted and received.

SPECIAL 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
X		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer Trainee	December 19, 2022
X		Adam J. Pesek (Lead Reviewer) for Vacant / Environmental Engineer Manager	December 21, 2022

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0005</u>
Latitude	<u>41° 51' 53.2"</u>	Longitude	<u>-79° 52' 58"</u>
Quad Name	<u>Millers Station</u>	Quad Code	<u>41079G8</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to French Creek (WWF)</u>	Stream Code	<u>53625</u>
NHD Com ID	<u>127351070</u>	RMI	<u>4.00</u>
Drainage Area	<u>0</u>	Yield (cfs/mi ²)	<u>0.001</u>
Q ₇₋₁₀ Flow (cfs)	<u>0</u>	Q ₇₋₁₀ Basis	<u>Default</u>
Elevation (ft)	<u>1595</u>	Slope (ft/ft)	<u>---</u>
Watershed No.	<u>16-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>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	
Temperature (°F)	<u>25</u>	Default	
Hardness (mg/L)	<u>100</u>	Default	
Other:	<u></u>		
Nearest Downstream Public Water Supply Intake	<u>Cambridge Springs Borough</u>		
PWS Waters	<u>French Creek</u>	Flow at Intake (cfs)	<u>51.45</u>
PWS RMI	<u>50.27</u>	Distance from Outfall (mi)	<u>28.82 (approximately)</u>

Changes Since Last Permit Issuance: N/A - This is a proposed discharge (Planning was approved on October 17, 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 an EC7-500-P-P Ecoflo Coco filter.

The EC7-500-P-P Ecoflo 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.

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 Inst Min	XXX	XXX	9	Upon Request	Grab
BOD5	XXX	XXX	XXX	10	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 UV Disinfection.

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD5, Total Suspended Solids, and Fecal Coliform are BPJ-technology-based on the Department's "Small Flow Treatment Facilities Manual." 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 interface. The top banner includes the Pennsylvania Department of Environmental Protection logo and navigation links for PA State Agencies, Online Services, and the Governor's office. The main map area shows aerial imagery with several colored lines representing different stream types. A popup window titled "Designated Use Streams (1 of 4)" is open, displaying the following metadata:

- Designated Use Gen ID: 28243
- GNIS Name:
- GNIS ID:
- ReachCode: 05010004000729
- COMID: 127351070
- Length Miles: 0.863
- Map Symbology: WWF
- Length Miles: 0.863
- Designated Use: 12
- DES Use ID: 8
- Use Description: WWF(WARM WATER FISHES)
- Migratory_Fish: N
- HUC: 05010004
- Basin: N
- Basin Narrative: Null
- Segment Narrative: Null
- Evaluation Date: Null

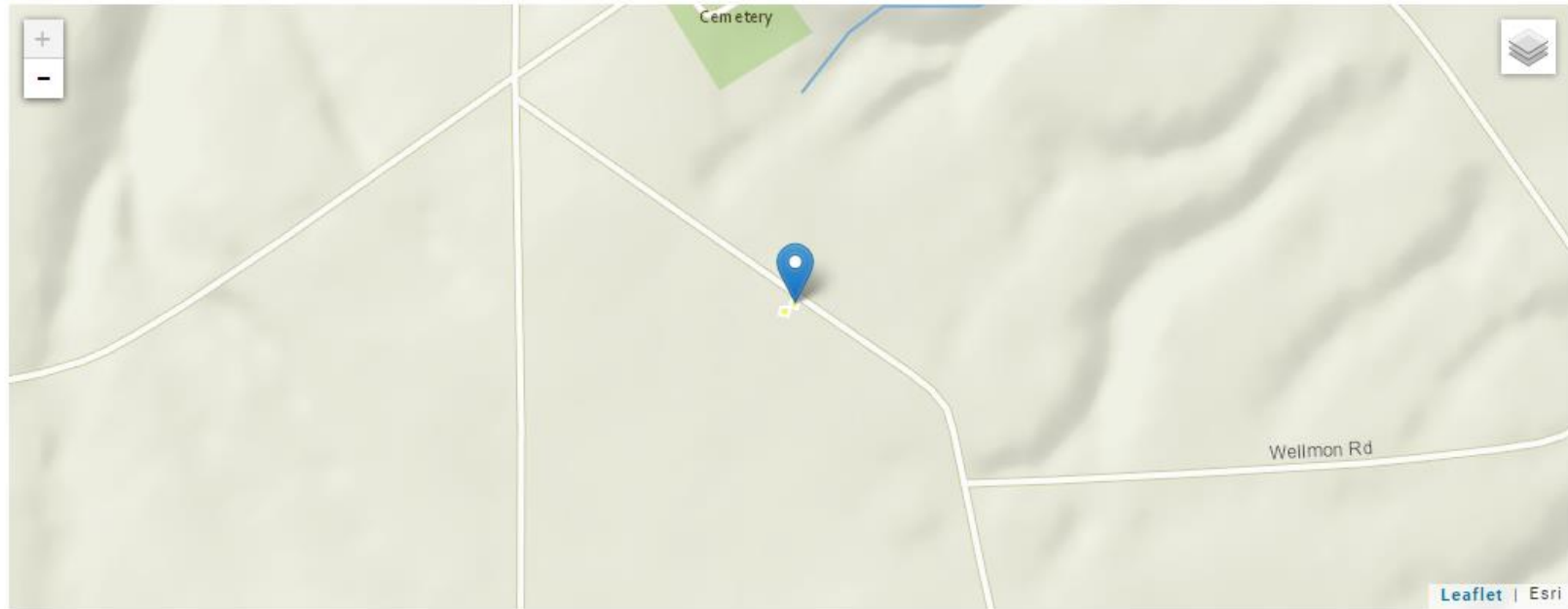
The popup also includes a "Zoom to" link. Below the popup, the map shows a crosshair with the coordinates: Latitude: 41.864778 - Longitude: -79.882778. A scale bar at the bottom left indicates 0, 150, and 300 feet. The bottom right corner features the Esri logo and the text "POWERED BY esri".

Drainage Area Location – StreamStats with Aerial Imagery

StreamStats Report

Region ID:
Workspace ID:
Clicked Point (Latitude, Longitude):
Time:

PA
PA20221219142845120000
41.86479, -79.88279
2022-12-19 09:29:08 -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