

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0293091  
APS ID 1085692  
Authorization ID 1434824

**Applicant, Facility and Project Information**

Applicant Name	<u>John B Pearson</u>	Facility Name	<u>John Pearson SRSTP</u>
Applicant Address	<u>9775 Oliver Road</u> <u>Mckean, PA 16426-1849</u>	Facility Address	<u>2791 Dunn Valley Road</u> <u>Waterford, PA 16441-3301</u>
Applicant Contact	<u>John Pearson</u>	Facility Contact	<u></u>
Applicant Phone	<u>(814) 823-9194</u>	Facility Phone	<u></u>
Applicant Email	<u>john444p@gmail.com</u>		<u></u>
Client ID	<u>376554</u>	Site ID	<u>861067</u>
SIC Code	<u>8800</u>	Municipality	<u>McKean Township</u>
SIC Description	<u>Private Households</u>	County	<u>Erie</u>
Date Application Received	<u>March 27, 2023</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>April 26, 2023</u>	WQM App. No.	<u>2523412</u>
Project Description	<u>Installation of Single Residence Sewage Treatment Plant</u>		

**Summary of Review**

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

Proposed treatment will consist of (WQM Permit No. 2523412): A Premier Tech EC7-500-P-P PACK Coco Filter Unit with integrated septic tank, DiUV disinfection unit and an effluent pump.

Act 14 – Proof of Notification was submitted and received.

SPECIAL CONDITIONS: NONE

The EPA waiver is in effect.

There are NO open violations in WMS for the subject Client ID (376554) as of April 26, 2023 [5/1/2023 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		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer Trainee	April 26, 2023
X		Chad W. Yurisc Chad W. Yurisc, P.E. / Environmental Engineer Manager	5/1/2023

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>42° 0' 4.91"</u>	Longitude	<u>-80° 4' 56.83"</u>
Quad Name	<u>Erie South</u>	Quad Code	<u>42080A1</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Elk Creek (CWF, MF)</u>	Stream Code	<u>62628</u>
NHD Com ID	<u>123926051</u>	RMI	<u>0.4900</u>
Drainage Area	<u>0.81</u>	Yield (cfs/mi²)	<u>0.1</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.081</u>	Q <sub>7-10</sub> Basis	<u>Default</u>
Elevation (ft)	<u>1156</u>	Slope (ft/ft)	<u>---</u>
Watershed No.	<u>15-A</u>	Chapter 93 Class.	<u>CWF, MF</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</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>PA – Canadian International Boundary in Lake Erie</u>		
PWS Waters	<u>Lake Erie</u>	Flow at Intake (cfs)	<u>---</u>
PWS RMI	<u>---</u>	Distance from Outfall (mi)	<u>---</u>

Changes Since Last Permit Issuance: N/A - This is a proposed discharge (Planning was approved on August 5, 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 Ecoflo Coco Filter Unit Model EC7-500-P-P PACK.

The EC7-500-P-P PACK Ecoflo 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) <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	20.0	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 interface. At the top, the Pennsylvania Department of Environmental Protection logo is on the left, and navigation links for PA State Agencies, Online Services, and state officials are on the right. The main map area shows aerial imagery with several streams overlaid in different colors: purple for Warm Water Fish, cyan for Cold Water Fish, and yellow for Trout Stocking. A yellow crosshair is positioned on a cyan stream segment, with a text label 'Latitude: 42.001364 - I' next to it. A pop-up window titled 'Designated Use Streams (1 of 3)' is open, showing the following metadata:

- Designated Use Gen ID: 54207
- GNIS Name:
- GNIS ID:
- ReachCode: 04120101000469
- COMID: 123926051
- Length Miles: 1.055
- Map Symbology: CWF
- Length Miles: 1.055
- Designated Use: 2
- DES Use ID: 1
- Use Description: CWF(COLD WATER FISHES)
- Migratory\_Fish: Y
- HUC: 04120101
- Basin: N
- Basin Narrative: Null
- Segment Narrative: Null
- Evaluation Date: Null
- Zoom to

On the left side of the map, there is a legend with categories: 'Regulated Facilities and Related Information', 'Streams and Water Resources', 'Water Quality', 'Existing Use Streams', 'Designated Use Streams', and 'Boundaries'. The 'Designated Use Streams' legend lists: Cold Water Fish (cyan), Exceptional Value (purple), High Quality (yellow), Trout Stocking (yellow), Warm Water Fish (purple), and Overlap (red). The 'Boundaries' section includes 'County Boundaries' and 'Municipalities' with corresponding icons.

At the bottom of the map, there is a scale bar from 0 to 0.2 miles and a source attribution: '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'. The 'esri' logo is also present in the bottom right corner.

**Drainage Area Location – StreamStats with Aerial Imagery**

StreamStats Report

Region ID:

PA

Workspace ID:

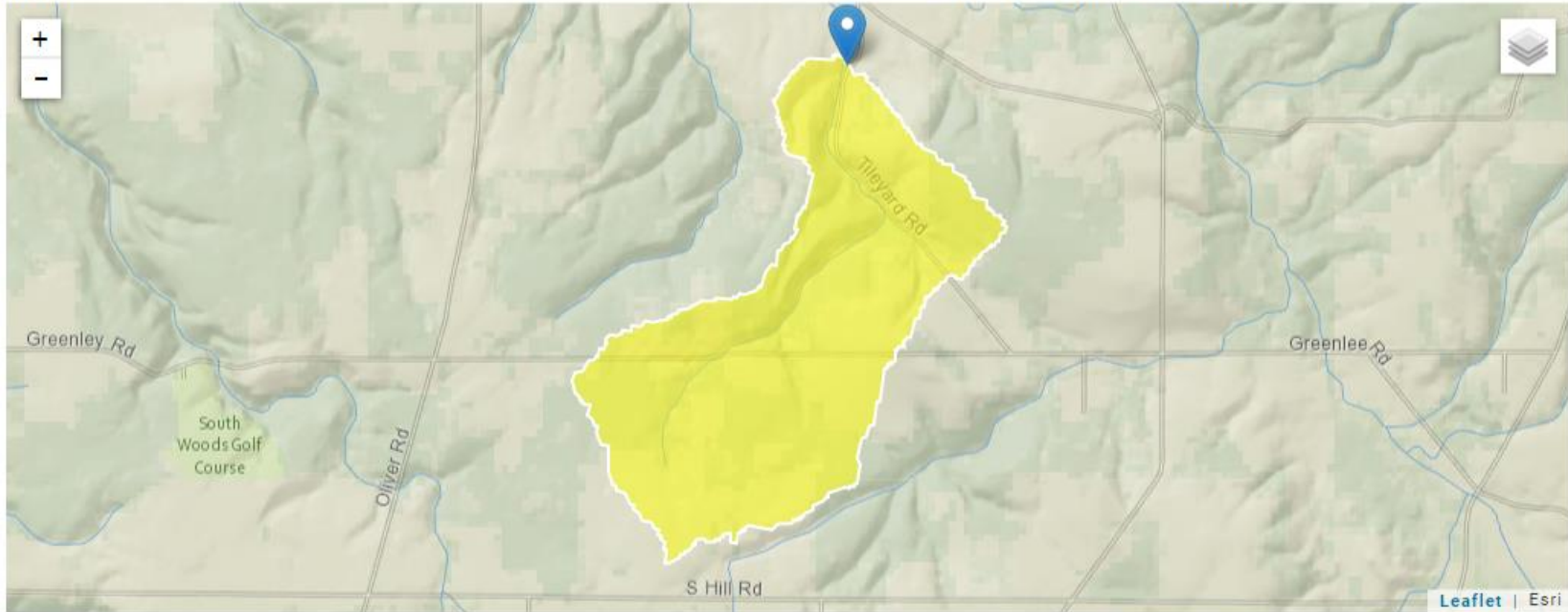
PA20230426135658842000

Clicked Point (Latitude, Longitude):

42.00137, -80.08242

Time:

2023-04-26 09:57:22 -0400



**+** Collapse All

**>** Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.81	square miles