

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0292915
APS ID 1080592
Authorization ID 1426406

Applicant, Facility and Project Information

| | | | |
|---------------------------|---|------------------|---|
| Applicant Name | <u>Joseph & Mildred Farrell</u> | Facility Name | <u>Joseph & Mildred Farrell SRSTP</u> |
| Applicant Address | <u>10255 Silverthorn Road</u> <u>Edinboro, PA 16412-9713</u> | Facility Address | <u>10255 Silverthorn Road</u> <u>Edinboro, PA 16412-9713</u> |
| Applicant Contact | <u>Joseph Farrell</u> | Facility Contact | <u></u> |
| Applicant Phone | <u>(814) 449-3699</u> | Facility Phone | <u></u> |
| Applicant Email | <u>jsphfar@gmail.com</u> | | <u></u> |
| Client ID | <u>375136</u> | Site ID | <u>860604</u> |
| SIC Code | <u>8800</u> | Municipality | <u>Franklin Township</u> |
| SIC Description | <u>Private Households</u> | County | <u>Erie</u> |
| Date Application Received | <u>February 6, 2023</u> | WQM Required | <u>Yes</u> |
| Date Application Accepted | <u>February 14, 2023</u> | WQM App. No. | <u>2523404</u> |
| Project Description | <u>Installation of 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 to replace a malfunctioning on-lot sewage disposal system.

Proposed treatment will consist of (WQM Permit No. 2523404): A 1,000 gallon dual-compartment septic tank, an Ecoflo Coco Filter Model EC7-500-P-P-USA with integrated UV disinfection unit and 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 | February 14, 2023 |
| X | | Chad W. Yurisc Chad W. Yurisc, P.E. / Environmental Engineer Manager | February 21, 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° 57' 2"</u> | Longitude | <u>-80° 11' 3.3"</u> |
| Quad Name | <u>Edinboro North</u> | Quad Code | <u>41080H2</u> |
| Wastewater Description: <u>Sewage Effluent</u> | | | |
| Receiving Waters | <u>Unnamed Tributary to Porter Run (CWF, MF)</u> | Stream Code | <u>62570</u> |
| NHD Com ID | <u>123922431</u> | RMI | <u>0.6700</u> |
| Drainage Area | <u>---</u> | Yield (cfs/mi ²) | <u>---</u> |
| Q ₇₋₁₀ Flow (cfs) | <u>0</u> | Q ₇₋₁₀ Basis | <u>---</u> |
| Elevation (ft) | <u>1303</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 | |
| Temperature (°F) | <u>20</u> | Default | |
| Hardness (mg/L) | <u>100</u> | Default | |
| Other: | <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 January 5, 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 Ecoflo Coco Filter Unit Model EC7-500-P-P-USA

The EC7-500-P-P-USA 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) ⁽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 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

pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

eMapPA

PA STATE AGENCIES ONLINE SERVICES Josh Shapiro, Governor Rich Negrin, Acting Secretary DEP Home

Layers Legend Tasks
Map eFacts Query Advanced Query Filter Plant Source Search

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

ESRI Streets & Imagery Topographic National Geographic
Streets Imagery

Locate Latitude and Longitude

Decimal Degrees DD/MM/SS

Latitude: Seconds

Longitude: Seconds

Designated Use Streams (1 of 3)

Designated Use Gen ID: 63714
GNIS Name:
GNIS ID:
ReachCode: 04120101004832
COMID: 123922431
Length Miles: 0.669
Map Symbology: CWF
Length Miles: 0.669
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](#)

Latitude: 41.950536 Longitude: -80.11333

POWERED BY **esri**

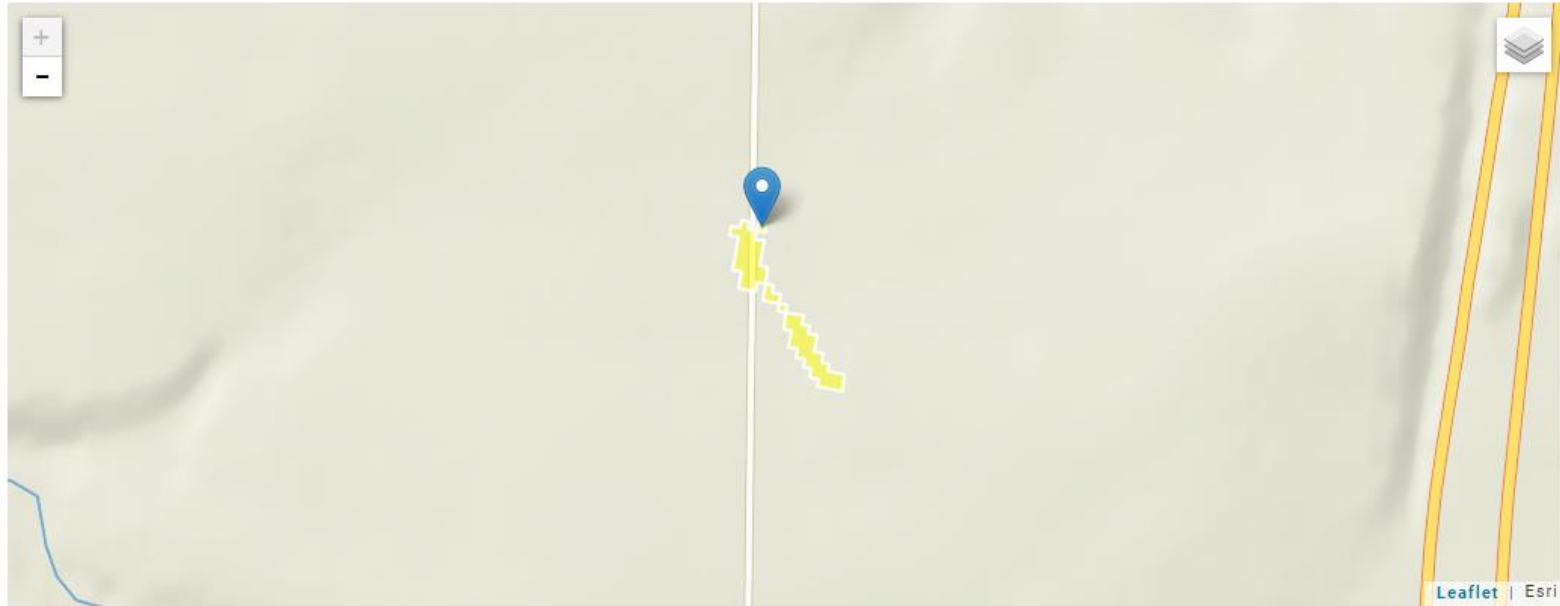
Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; ESRI Streets: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Drainage Area Location – StreamStats with Aerial Imagery

StreamStats Report

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

PA
PA20230214205626927000
41.95056, -80.18423
2023-02-14 15:56:54 -0500



+ Collapse All

> Basin Characteristics

| Parameter Code | Parameter Description | Value | Unit |
|----------------|---|---------|--------------|
| DRNAREA | Area that drains to a point on a stream | 0.00197 | square miles |