

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0292842
APS ID 1079178
Authorization ID 1423827

Applicant, Facility and Project Information

| | | | |
|---------------------------|--|------------------|--|
| Applicant Name | <u>Dale & Joyce Sherman</u> | Facility Name | <u>Dale & Joyce Sherman SRSTP</u> |
| Applicant Address | <u>9735 Sherman Road</u> <u>Albion, PA 16401-8705</u> | Facility Address | <u>9735 Sherman Road</u> <u>Albion, PA 16401-8705</u> |
| Applicant Contact | <u>Dale Sherman</u> | Facility Contact | <u></u> |
| Applicant Phone | <u>(814)756-3567</u> | Facility Phone | <u></u> |
| Client ID | <u>374715</u> | Site ID | <u>857711</u> |
| SIC Code | <u>8800</u> | Municipality | <u>Elk Creek Township</u> |
| SIC Description | <u>Private Households</u> | County | <u>Erie</u> |
| Date Application Received | <u>January 10, 2023</u> | WQM Required | <u>Yes</u> |
| Date Application Accepted | <u></u> | WQM App. No. | <u>2523401</u> |
| Project Description | <u>Single Residence Sewage Treatment Plant (SRSTP).</u> | | |

Summary of Review

This is a new discharge for an existing 3-bedroom home to a repair of an existing malfunctioning on-lot system.

Act 14 – Proof of Notification was submitted and received.

Proposed treatment will consist of (WQM Permit No. 2523401): A 1000-gallon dual chambered concrete septic tank followed by a Premier Tech EC7-500-P-G/P Coco Filter unit with integrated UV unit.

The EPA Waiver is in effect.

There are no open violations in WMS for the subject Client ID (374715) as of 3/6/2023. [3/22/2023 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 | | Jordan A. Frey, E.I.T. Jordan A. Frey, E.I.T. / Project Manager | March 6, 2023 |
| X | | Chad W. Yurisc Chad W. Yurisc, P.E. / Environmental Engineer Manager | 3/22/2023 |

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° 53' 39.11"</u> | Longitude | <u>-80° 19' 26.86"</u> |
| Quad Name | <u>Albion</u> | Quad Code | <u>41080H3</u> |
| Wastewater Description: <u>Sewage Effluent</u> | | | |
| Receiving Waters | <u>Unnamed Tributary of Temple Creek (CWF, MF)</u> | Stream Code | <u>63417</u> |
| NHD Com ID | <u>123919776</u> | RMI | <u>0.6900</u> |
| Drainage Area | <u>0.04</u> | Yield (cfs/mi ²) | <u>0.1</u> |
| Q ₇₋₁₀ Flow (cfs) | <u>0.004</u> | Q ₇₋₁₀ Basis | <u>Default</u> |
| Elevation (ft) | <u>1112</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>7.0</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>Ohio State Line</u> | | |
| PWS Waters | <u>Conneaut Creek</u> | Flow at Intake (cfs) | <u>N/A</u> |
| PWS RMI | <u>N/A</u> | Distance from Outfall (mi) | <u>17.3</u> |

Changes Since Last Permit Issuance: N/A – This is a proposed discharge (Planning was approved on December 12, 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 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 |
| BOD5 | 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 shows a web-based mapping application interface. At the top, there are tabs for 'Map', 'eFacts Query', and 'Advanced Query'. Below these are radio buttons for map styles: 'ESRI Streets & Imagery' (selected), 'Topographic', and 'National Geographic'. A toolbar with navigation icons is located below the map style controls. The map itself is a topographic view showing a stream network. A specific stream segment is highlighted in cyan. A yellow 'X' marker is placed on Sherman Rd with the coordinates 'Latitude: 41.895278 - Longitude: -80.318611'. A popup window titled 'PA Historic Streams (1 of 6)' is open over the cyan stream, displaying the following data:

| | |
|-------------------------|----------------------------|
| Name: | Trib 63417 Of Temple Creek |
| Net Streams: | 66232 |
| Shed: | 15X |
| Named: | 0 |
| Rec No: | 66232 |
| Seg ID: | 63417_0_0.8336 |
| Seg ID Old: | 63417_0_0.8336 |
| From Node: | 6302 |
| To Node: | 6585 |
| Down River Mile: | 0 |
| Up River Mile: | 0.833612 |
| WRDS: | 63417 |
| Strahler: | 1 |

At the bottom of the popup, there is a 'Zoom to' link. In the top right corner of the map area, there is a 'Locate Latitude and Longitude' dialog box with the following fields:

| | | | |
|---------------------------------------|---|-------------|-------------|
| <input type="radio"/> Decimal Degrees | <input checked="" type="radio"/> DD/MM/SS | | |
| Latitude: | Degrees: 41 | Minutes: 53 | Seconds: 43 |
| Longitude: | -80 | 19 | 7 |

Buttons for 'Locate' and 'Close' are at the bottom of the dialog. The map includes a scale bar (0 to 0.2 miles) and the Esri logo 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

