

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0291170  
APS ID 1070061  
Authorization ID 1407696

**Applicant, Facility and Project Information**

|                           |  |                  |   |
|---------------------------|--|------------------|---|
| Applicant Name            | <u>Mark Gerdy</u>  | Facility Name    | <u>Mark Gerdy SRSTP</u>   |
| Applicant Address         | <u>8105 Short Leaf Pine Circle</u><br><u>Greenville, SC 29609-1365</u> | Facility Address | <u>Tax Parcel# 24 019 018; Osborn Road</u><br><u>Greenville, PA 16125</u> |
| Applicant Contact         | <u>Mark Gerdy</u>  | Facility Contact | <u>Mark Gerdy</u>   |
| Applicant Phone           | <u>(834) 363-6817</u>  | Facility Phone   | <u>(834) 363-6817</u>   |
| Client ID                 | <u>372052</u>  | Site ID          | <u>857923</u>   |
| SIC Code                  | <u>8800</u>  | Municipality     | <u>Salem Township</u>   |
| SIC Description           | <u>Private Households</u>  | County           | <u>Mercer</u>   |
| Date Application Received | <u>August 22, 2022</u>   | WQM Required     | <u>Yes</u>  |
| Date Application Accepted | <u>August 29, 2022</u>   | WQM App. No.     | <u>4322407</u>  |
| Project Description       | <u>Single Residence Sewage Treatment Plant (SRSTP).</u>                |                  |   |

**Summary of Review**

This is a new discharge for a proposed 3-bedroom home.

Act 14 – Proof of Notification was submitted and received.

Proposed treatment will consist of (WQM Permit No. 4322407): A Norweco Singulair Bio-Kinetic Model 960-500/600 unit with Norweco Singulair Hydro-Kinetic Bio-Film Reactor and integrated Model AT 1500 ultraviolet (UV) disinfection unit.

The EPA Waiver is in effect.

There are no open violations in WMS for the subject Client ID (372052) as of 9/29/2022.

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.<br>Jordan A. Frey, E.I.T. / Project Manager          | September 29, 2022 |
| X       |      | Adam J. Pesek (Lead Reviewer) for<br>Vacant / Environmental Program Manager | October 3, 2022    |

| Discharge, Receiving Waters and Water Supply Information |   |                              |                            |
|--|---|------------------------------|----------------------------|
| Outfall No.  | <u>001</u>                                  | Design Flow (MGD)            | <u>0.0004</u>              |
| Latitude   | <u>41° 27' 50.36"</u>                       | Longitude                    | <u>-80° 17' 52.64"</u>     |
| Quad Name  | <u>Greenville East</u>                      | Quad Code                    | <u>41080D3</u>             |
| Wastewater Description: <u>Sewage Effluent</u>           |   |                              |                            |
| Receiving Waters   | <u>Unnamed Tributary to Bluff Run</u>       | Stream Code                  | <u>36181</u>               |
| NHD Com ID   | <u>130027068</u>                            | RMI                          | <u>0.7000</u>              |
| Drainage Area  | <u>1.37</u>                                 | Yield (cfs/mi <sup>2</sup> ) | <u>0.001</u>               |
| Q <sub>7-10</sub> Flow (cfs)                             | <u>0</u>                                    | Q <sub>7-10</sub> Basis      | <u>Intermittent Stream</u> |
| Elevation (ft)   | <u>1304</u>                                 | Slope (ft/ft)                | <u>---</u>                 |
| Watershed No.  | <u>20-A</u>                                 | Chapter 93 Class.            | <u>TSF</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 (°C)   | <u>25</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>Greenville Municipal Water Authority</u> |                              |                            |
| PWS Waters   | <u>Shenango River</u>                       | Flow at Intake (cfs)         | <u>10.6</u>                |
| PWS RMI  | <u>8.0</u>                                  | Distance from Outfall (mi)   | <u>10.2</u>                |

Changes Since Last Permit Issuance: N/A – This is a proposed discharge (Planning was approved on August 15, 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 Norweco Singlair unit.

The Norweco Singlair 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.

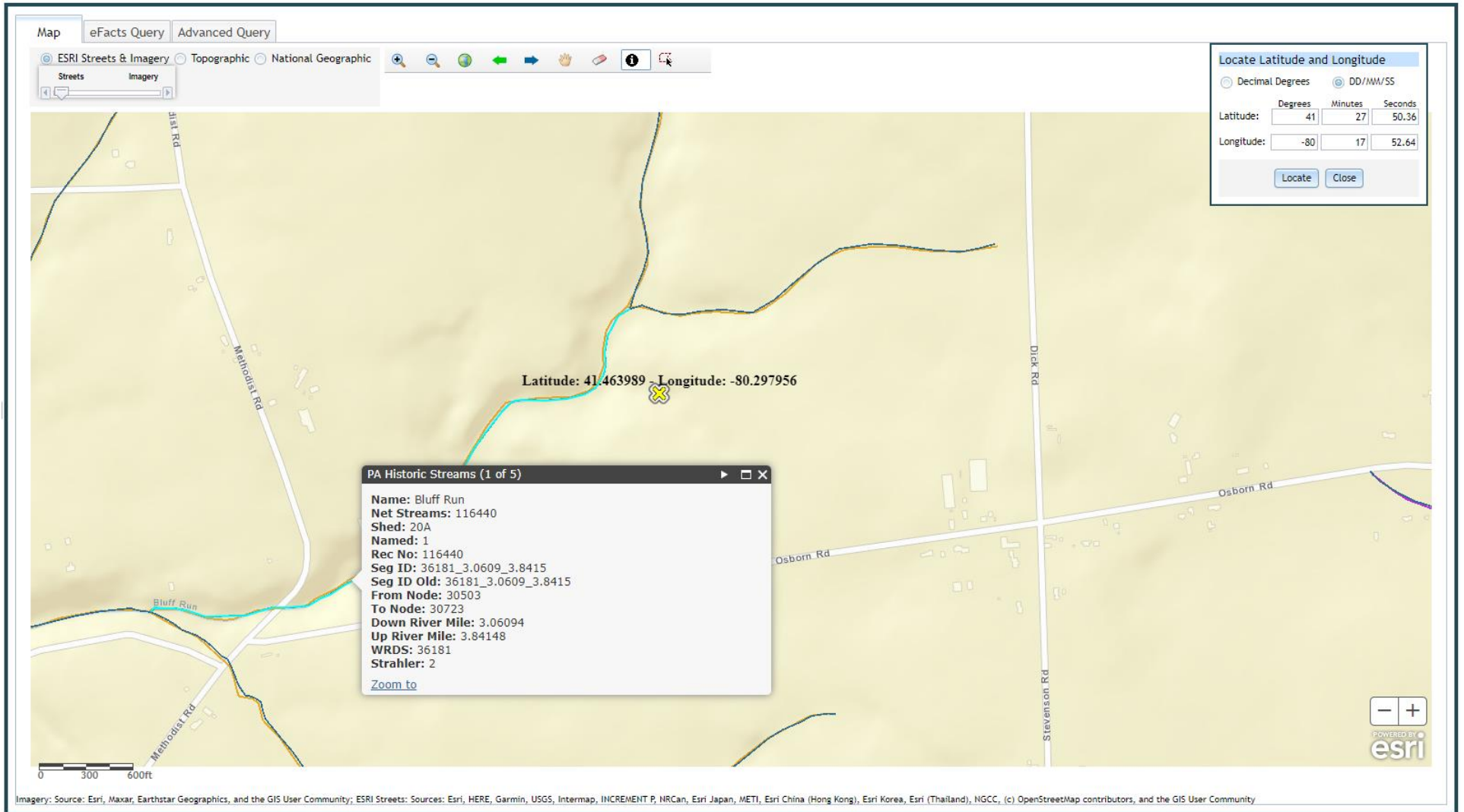
**Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.**

| Parameter                   | Effluent Limitations                |                   |                       |                   |         |                     | Monitoring Requirements                            |                            |
|-----------------------------|-------------------------------------|-------------------|-----------------------|-------------------|---------|---------------------|--|----------------------------|
|                             | Mass Units (lbs/day) <sup>(1)</sup> |                   | Concentrations (mg/L) |                   |         |                     | Minimum <sup>(2)</sup><br>Measurement<br>Frequency | Required<br>Sample<br>Type |
|                             | Average<br>Monthly                  | Average<br>Weekly | Minimum               | Annual<br>Average | Maximum | Instant.<br>Maximum |  |                            |
| Flow (GPD)                  | Report<br>Annl Avg                  | XXX               | XXX                   | XXX               | XXX     | XXX                 | 1/year   | Estimate                   |
| pH (S.U.)                   | XXX                                 | XXX               | 6.0<br>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 BOD<sub>5</sub> 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



Attachment 2  
Google Earth Imagery

