

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0245518  
APS ID 1089825  
Authorization ID 1442187

**Applicant, Facility and Project Information**

|                           |   |                  |   |
|---------------------------|---|------------------|---|
| Applicant Name            | <u>Walker Barry</u>                                       | Facility Name    | <u>2012 Little Rd</u>   |
| Applicant Address         | <u>201 Little Road</u><br><u>Perkiomenville, PA 18074</u> | Facility Address | <u>2012 Little Road</u><br><u>Perkiomenville, PA 18074-9644</u> |
| Applicant Contact         | <u>Barry Walker</u>                                       | Facility Contact | <u></u>   |
| Applicant Phone           | <u>(610) 754-6219</u>                                     | Facility Phone   | <u></u>   |
| Client ID                 | <u>377567</u>   | Site ID          | <u>856481</u>   |
| SIC Code                  | <u>8800</u>   | Municipality     | <u>New Hanover Township</u>                                     |
| SIC Description           | <u>Private Households</u>                                 | County           | <u>Montgomery</u>   |
| Date Application Received | <u>April 11, 2023</u>                                     | WQM Required     | <u></u>   |
| Date Application Accepted | <u></u>   | WQM App. No.     | <u>4623404</u>  |
| Project Description       | <u>New SRSTP</u>  |                  |   |

**Summary of Review**

The applicant requests approval for NPDES Permit to discharge treated sewage from a small flow package treatment plant serving a 3-bedroom single residence, located at 2012 Little Rd., Perkiomenville located in New Hanover Township, Montgomery County. This system is to replace an existing malfunctioning on-lot system.

This project will generate 400 gallons of sewage per day to be treated by SFTF with a discharge to a tributary of Deep Creek.

The proposed treatment plant consists of the following treatment units:

1. Primary treatment via a 1250-gallons, 2-compartment septic tank with a PL-625 effluent filter.
2. Effluent from the septic tank will enter an Ecoflo ECDn-600-C coco filter via gravity.
3. Disinfection will be provided by premiere tech integrated classic UV Disinfection Unit.
4. The final discharge to the outfall will be via gravity to a 4" SCHED 40 pipe to an outfall 001. The outfall will discharge to Deep Creek.

The approval of this project is specifically made contingent that nitrogen-reducing treatment component be part of the proposed SFTF. According to the application, Ecoflo filtration system is used to treat total Nitrogen.

The design of the treatment doesn't comply with Small Flow Treatment Facilities Manual (Technical Guidance Number 362-0300-002) because of the use of coco filter, therefore, this facility doesn't qualify for coverage under general permit (WQG01) and required to submit an Individual WQM permit application. The Design Engineer's Report stated that the proposed treatment plant will be able to meet the effluent limitations applicable to Individual Single Residence Sewage Treatment Plants.

Act 537 Planning was approved on September 14, 2022 under DEP CODE No. 1-46941-239-3s.

| Approve | Deny | Signatures  | Date          |
|---------|------|---|---------------|
| X       |      | <i>Vasantha</i><br>Vasantha Palakurti / Environmental Engineering Specialist  | July 18, 2023 |
| X       |      | <i>Pravin Patel</i><br>Pravin C. Patel, P.E. / Environmental Engineer Manager | 07/19/2023    |

**Summary of Review**

Act 14 Notices:

New Hanover Township – November 3, 2022  
Montgomery County Planning Commission - November 3, 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.

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>40° 9' 21.92"</u>   | Longitude                    | <u>-75° 19' 52.53"</u> |
| Quad Name  | <u></u>  | Quad Code                    | <u></u>                |
| Wastewater Description: <u>Sewage Effluent</u>           |  |                              |                        |
| Receiving Waters   | <u>Unnamed Tributary to Stony Creek (TSF, MF)</u>  | Stream Code                  | <u>01411</u>           |
| NHD Com ID   | <u>25979234</u>  | RMI                          | <u>0.1700</u>          |
| Drainage Area  | <u></u>  | Yield (cfs/mi <sup>2</sup> ) | <u></u>                |
| Q <sub>7-10</sub> Flow (cfs)                             | <u></u>  | Q <sub>7-10</sub> Basis      | <u></u>                |
| Elevation (ft)   | <u></u>  | Slope (ft/ft)                | <u></u>                |
| Watershed No.  | <u>3-F</u>   | Chapter 93 Class.            | <u>TSF, MF</u>         |
| Existing Use   | <u></u>  | Existing Use Qualifier       | <u></u>                |
| Exceptions to Use  | <u></u>  | Exceptions to Criteria       | <u></u>                |
| Assessment Status  | <u>Impaired</u>  |                              |                        |
| Cause(s) of Impairment                                   | <u>CAUSE UNKNOWN, FLOW REGIME MODIFICATION, FLOW REGIME MODIFICATION, FLOW REGIME MODIFICATION, SILTATION, SILTATION, SILTATION</u>  |                              |                        |
| Source(s) of Impairment                                  | <u>HABITAT MODIFICATION - OTHER THAN HYDROMODIFICATION, HABITAT MODIFICATION - OTHER THAN HYDROMODIFICATION, HIGHWAY/ROAD/BRIDGE RUNOFF (NON-CONSTRUCTION RELATED), HIGHWAY/ROAD/BRIDGE RUNOFF (NON-CONSTRUCTION RELATED), REMOVAL OF RIPARIAN VEGETATION, REMOVAL OF RIPARIAN VEGETATION, RURAL (RESIDENTIAL AREAS)</u> |                              |                        |

**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 (MGD)                  | 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                   | 1/year   | 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                       |
| Total Nitrogen              | XXX                                 | XXX               | XXX                   | Report            | XXX     | XXX                 | 1/year   | Grab                       |