

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0057274
APS ID 1106997
Authorization ID 1472321

Applicant, Facility and Project Information

| | | | |
|---------------------------|--|------------------|--|
| Applicant Name | <u>Michael & Antionette Hughes</u> | Facility Name | <u>Hughes SRSTP</u> |
| Applicant Address | <u>305 Auburn Drive</u> <u>Downingtown, PA 19335-4420</u> | Facility Address | <u>305 Auburn Drive</u> <u>Downingtown, PA 19335-4420</u> |
| Applicant Contact | <u>Michael Hughes</u> | Facility Contact | <u>Michael Hughes</u> |
| Applicant Phone | <u>(610) 458-0419</u> | Facility Phone | <u>(610) 458-0419</u> |
| Client ID | <u>95374</u> | Site ID | <u>463624</u> |
| SIC Code | <u>8811</u> | Municipality | <u>Upper Uwchlan Township</u> |
| SIC Description | <u>Services - Private Households</u> | County | <u>Chester</u> |
| Date Application Received | <u>January 8, 2024</u> | WQM Required | <u>No</u> |
| Date Application Accepted | <u></u> | WQM App. No. | <u></u> |
| Project Description | <u>Permit Renewal.</u> | | |

Summary of Review

The permittee has submitted a NPDES permit renewal application for their treated sewage discharge to unnamed tributary to Marsh Creek through Outfall 001.

The treatment system designed to treat 500 gpd of sewage and consists of the following components:

- Norweco Singular Model 900 aerobic treatment tank
- 500 gallon pre-cast concrete pump tank
- 92 sq. ft intermittent sand filter enclosed in a pre-cast concrete tank
- 250 gallon pre-cast concrete chlorine contact tank

DEP has conducted a site inspection in June 2023. No issues are noted.

The discharge is in Christina River Basin watershed. The facility has WLA for CBOD5, TP, TN and DO listed in TMDL. The annual sampling monitoring is proposed for previously established parameters of concern (see Page 4 of this factsheet). Seasonal limits are omitted from this draft.

Act 14 Notifications:

Chester County Health Department - January 6, 2024
Upper Uwchlan Township - January 6, 2024

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*,

| Approve | Deny | Signatures | Date |
|---------|------|--|----------------|
| X | | <i>Christian French</i> Christian French / Environmental Engineering Specialist | March 20, 2024 |
| X | | <i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager | 03/20/2024 |

Summary of Review

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>.0005</u> |
| Latitude | <u>40° 3' 52.00"</u> | Longitude | <u>-75° 41' 39.00"</u> |
| Quad Name | <u></u> | Quad Code | <u>1840</u> |
| Wastewater Description: <u>Treated Sewage</u> | | | |
| Receiving Waters | <u>Unnamed Tributary to Marsh Creek (HQ-TSF, MF)</u> | Stream Code | <u>00331</u> |
| NHD Com ID | <u>26089294</u> | RMI | <u>1.7</u> |
| Drainage Area | <u>0.152</u> | Yield (cfs/mi ²) | <u></u> |
| Q ₇₋₁₀ Flow (cfs) | <u>0.018</u> | Q ₇₋₁₀ Basis | <u></u> |
| Elevation (ft) | <u></u> | Slope (ft/ft) | <u></u> |
| Watershed No. | <u></u> | Chapter 93 Class. | <u>HQ-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>Attaining Use(s)</u> | | |
| Cause(s) of Impairment | <u></u> | | |
| Source(s) of Impairment | <u></u> | | |
| TMDL Status | <u>Final</u> | Name | <u>Christina River Basin TMDL & Delaware PCB TMDL (Permittee not mentioned)</u> |
| Background/Ambient Data | | Data Source | |
| pH (SU) | <u></u> | | <u></u> |
| Temperature (°F) | <u></u> | | <u></u> |
| Hardness (mg/L) | <u></u> | | <u></u> |
| Other: | <u></u> | | <u></u> |
| Nearest Downstream Public Water Supply Intake | <u>Aqua PA Ingrams Mill Water Treatment Plant</u> | | |
| PWS Waters | <u></u> | Flow at Intake (cfs) | <u></u> |
| PWS RMI | <u></u> | Distance from Outfall (mi) | <u>10.5</u> |

Changes Since Last Permit Issuance: none.

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 | Daily 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 | 1/year | Grab |
| DO | XXX | XXX | 6.0 Inst Min | XXX | XXX | XXX | 1/year | Grab |
| TRC | XXX | XXX | XXX | Report Daily Max | XXX | XXX | 1/month | Grab |
| CBOD5 | XXX | XXX | XXX | 10.0 | 20.0 | 40 | 1/year | Grab |
| TSS | XXX | XXX | XXX | 10.0 | XXX | 20 | 1/year | Grab |
| Fecal Coliform (No./100 ml) | XXX | XXX | XXX | 200 | XXX | 1000 | 1/year | Grab |
| Total Nitrogen | XXX | XXX | XXX | 40.0 | XXX | 80 | 1/year | Grab |
| Ammonia | XXX | XXX | XXX | 1.5 | XXX | 3 | 1/year | Grab |
| Total Phosphorus | XXX | XXX | XXX | 10.0 | XXX | 20 | 1/year | Grab |

Compliance Sampling Location: Outfall 001