

Application Type New
Wastewater Type Sewage
Facility Type SFTF

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

Application No. PA0255904
APS ID 1036800
Authorization ID 1350609

Applicant, Facility and Project Information

Applicant Name	<u>Dwayne Pattison</u>	Facility Name	<u>Pattison Properties SFTF</u>
Applicant Address	<u>45 Knight Lane</u> <u>South Franklin, PA 15301-8034</u>	Facility Address	<u>45 Knight Lane</u> <u>Washington, PA 15301-8034</u>
Applicant Contact	<u>Ryan Christopher</u>	Facility Contact	<u>Same as Applicant Contact</u>
Applicant Phone	<u>(412) 582-8100</u>	Facility Phone	<u>Same as Applicant Contact</u>
Client ID	<u>362357</u>	Site ID	<u>848936</u>
SIC Code		Municipality	<u>South Franklin Township</u>
SIC Description		County	<u>Washington</u>
Date Application Received	<u>April 20, 2021</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>April 22, 2021</u>	WQM App. No.	<u>6321401</u>
Project Description	<u>Application for Issuance of a New NPDES Permit</u>		

Summary of Review

This permit is being issued to approve the construction and operation of a Small Flow Treatment Facility (SFTF) consisting of:

- One, 2,000-gallon septic tank
- Two, Singulair Bio-Kinetic Model 960-1000-gallon treatment tanks
- Two, Hydro-Kinetic Bio-Film Reactors
- A Model AT 1500 UV Disinfection System

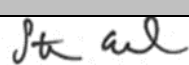

This facility is being built to replace a failed onlot system. The STP will service two standalone buildings as well as a two-unit apartment building, 4 EDU's in total.

Associated WQM Permit No. 6321401 is also pending issuance upon approval from the department.

Per current policy, effluent limitations and monitoring requirements listed on page 4 of this Fact Sheet, at a minimum, will be established for SFTF permit renewals. The limitations 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.

Sewage discharges with design flows < 2,000 gpd are not require monitoring for Ammonia- Nitrogen, Total Nitrogen, and Total Phosphorus in new and reissued permits.

Ultraviolet (UV) disinfection is used therefore Total Residual Chlorine (TRC) limits are not applicable. Current policy does not require SFTFs to monitor for UV Intensity.

Approve	Deny	Signatures	Date
X		 Stephanie Conrad / Environmental Engineering Specialist	May 25, 2021
X		 James M. Vanek, P.E. / Environmental Engineer Manager	May 26, 2021

Summary of Review

Technology-based effluent limits for pH will be imposed based upon State Regulation 95.2(1).

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>.0016</u>
Latitude	<u>40° 6' 20"</u>	Longitude	<u>-80° 19' 49"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Tenmile Creek (TSF)</u>	Stream Code	<u>40285</u>
NHD Com ID	<u>99411012</u>	RMI	<u>34.6</u>
Drainage Area	<u>0.77</u>	Yield (cfs/mi ²)	<u>0.0551</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.0424</u>	Q ₇₋₁₀ Basis	<u>USGS Stream Stats</u>
Elevation (ft)	_____	Slope (ft/ft)	_____
Watershed No.	<u>19-B</u>	Chapter 93 Class.	<u>TSF</u>
Existing Use	_____	Existing Use Qualifier	_____
Exceptions to Use	_____	Exceptions to Criteria	_____
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>SILTATION</u>		
Source(s) of Impairment	<u>GRAZING IN RIPARIAN OR SHORELINE ZONES</u>		
TMDL Status	_____	Name	_____
Background/Ambient Data		Data Source	
pH (SU)	_____	_____	
Temperature (°F)	_____	_____	
Hardness (mg/L)	_____	_____	
Other:	_____	_____	
Nearest Downstream Public Water Supply Intake	<u>Tri City Joint Municipal Authority</u>		
PWS Waters	<u>Monongahela River</u>	Flow at Intake (cfs)	_____
PWS RMI	_____	Distance from Outfall (mi)	_____

Changes Since Last Permit Issuance:

Other Comments:

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.

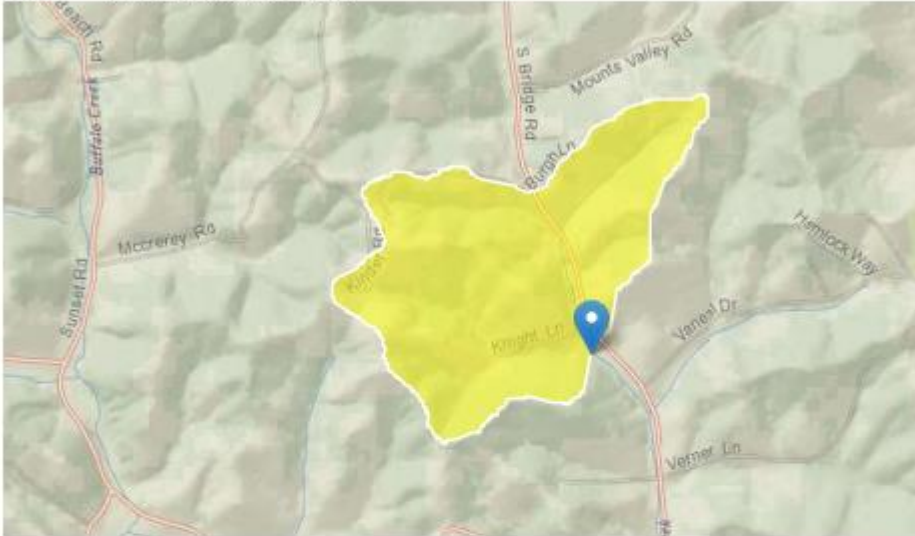
Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/month	Grab

Compliance Sampling Location: Outfall 001

Other Comments:

StreamStats Report

Region ID: PA
 Workspace ID: PA20210525112433344000
 Clicked Point (Latitude, Longitude): 40.10533, -80.33003
 Time: 2021-05-25 07:24:50 -0400



Basin Characteristics				
Parameter Code	Parameter Description	Value	Unit	
DRNAREA	Area that drains to a point on a stream	0.77	square miles	
ELEV	Mean Basin Elevation	1255	feet	

Low-Flow Statistics Parameters [Low Flow Region 4]					
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.77	square miles	2.26	1400

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
ELEV	Mean Basin Elevation	1255	feet	1050	2580

Low-Flow Statistics Disclaimers [Low Flow Region 4]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Low-Flow Statistics Flow Report [Low Flow Region 4]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.0216	ft ³ /s
30 Day 2 Year Low Flow	0.0424	ft ³ /s
7 Day 10 Year Low Flow	0.0061	ft ³ /s
30 Day 10 Year Low Flow	0.0134	ft ³ /s
90 Day 10 Year Low Flow	0.028	ft ³ /s

Low-Flow Statistics Citations

Stuckey, M.H., 2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the software is released on condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from its authorized or unauthorized use.

USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Application Version: 4.5.3

StreamStats Services Version: 1.2.22

NSS Services Version: 2.1.2