

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0255971
APS ID 1047561
Authorization ID 1369180

Applicant, Facility and Project Information

Applicant Name	<u>Wesley H Taylor</u>	Facility Name	<u>Taylor Properties SRSTP</u>
Applicant Address	<u>25 Yohe Street</u> <u>Finleyville, PA 15332-3807</u>	Facility Address	<u>25 Yohe Street</u> <u>Finleyville, PA 15332-3807</u>
Applicant Contact	<u>Wesley Taylor</u>	Facility Contact	<u>Same as applicant</u>
Applicant Phone	<u>(724) 258-3092</u>	Facility Phone	<u>Same as applicant</u>
Client ID	<u>365462</u>	Site ID	<u>852032</u>
SIC Code	<u>8800</u>	Municipality	<u>Nottingham Township</u>
SIC Description	<u>Private Households</u>	County	<u>Washington</u>
Date Application Received	<u>August 31, 2021</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>September 15, 2021</u>	WQM App. No.	<u>6321405</u>
Project Description	<u>Application for a new NPDES permit for discharge of treated sewage</u>		

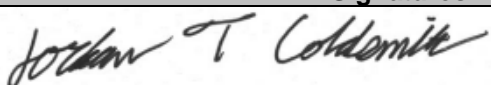
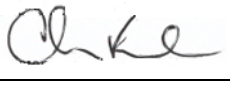
Summary of Review

The applicant proposed to construct a 0.0004 MGD single resident sewer treatment plant to replace an older, failed system.

The discharge is to UNT 63948 to Sawmill Creek, which is classified as WWF, located in State Watershed 19-C

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
			September 22, 2021
		Jordan T Coldsmith / Environmental Engineering Specialist	
			October 20, 2021
		Christopher Kriley, P.E. / Environmental Program Manager	

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° 11' 51.38"</u>	Longitude	<u>-80° 0' 16.69"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Sawmill Creek (WWF)</u>	Stream Code	<u>63948</u>
NHD Com ID	<u>134839801</u>	RMI	<u>0.4800</u>
Drainage Area	<u>0.0401</u>	Yield (cfs/mi ²)	<u>0.00384</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.000154</u>	Q ₇₋₁₀ Basis	<u>USGS Streamstats</u>
Elevation (ft)	<u>1181 mean basin elevation</u>	Slope (ft/ft)	_____
Watershed No.	<u>19-C</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	_____	Existing Use Qualifier	_____
Exceptions to Use	_____	Exceptions to Criteria	_____
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	_____		
Source(s) of Impairment	_____		
TMDL Status	_____	Name	_____
Background/Ambient Data	_____	Data Source	_____
pH (SU)	_____		_____
Temperature (°F)	_____		_____
Hardness (mg/L)	_____		_____
Other:	_____		_____
Nearest Downstream Public Water Supply Intake	<u>West Penn power Mitchell Station</u>		
PWS Waters	<u>Monongahela River</u>	Flow at Intake (cfs)	_____
PWS RMI	_____	Distance from Outfall (mi)	<u>11.9</u>

Changes Since Last Permit Issuance: N/A – New Permit Issuance

Other Comments: See attached Streamstats report

Treatment Facility Summary				
Treatment Facility Name: Taylor Properties SRSTP				
WQM Permit No.		Issuance Date		
6321405		Under department review		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	Septic Tank/Coco Filtration	UV	0.0004
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0004		Not overloaded	Septic tank	Other WWTP

Changes Since Last Permit Issuance: none – new permit issuance

Other Comments: WQM Permit No. 6321405 currently under Department review; approves construction of a STP with a rated annual average design flow of 0.0004 MGD. The treatment process consists of:

- Two (2) 1,000 gallon dual compartment septic tanks
- One (1) Zabel A300 effluent filter and alarm
- One (1) Ecoflo EC7-500-C-P coco filter
- One (1) Salcor3G UV unit

Act 537 Planning for this project was approved August 31, 2021

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>.0004</u>
Latitude <u>40° 11' 51.38"</u>	Longitude <u>-80° 0' 16.69"</u>
Wastewater Description: <u>Sewage Effluent</u>	

Technology-Based Limitations

The following effluent limitations and monitoring requirements, at a minimum, will be established in all new and renewed SFTF permits based on the requirements of DEP's "Standard Operating Procedure (SOP) for Clean Water Program New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Application" (SOP No. BCW-PMT-003, Version 1.8, Final, November 9, 2012, Revised May 17, 2019).

Parameter	Avg	IMAX	Sample Type	Frequency: SFTFs	Frequency: SRSTPs
Flow (GPD)	Report	XXX	Estimate (SRSTPs) Measured (SFTFs)	1/month	1/year
BOD5 (mg/L)	10	20	Grab	1/month	1/year
TSS (mg/L)	10	20	Grab	1/month	1/year
pH*	6.0 S.U. Inst. Min.	9.0 S.U.	Grab	1/month	1/year
TRC (mg/L)	Report for SRSTPs; Use TRC Spreadsheet to determine WQBELs or 0.02 mg/L for SFTFs		Grab	1/month	1/year
Fecal Coliform (No./100 ml)	200 Geometric Mean (SFTFs) / Average (SRSTPs)		Grab	1/month	1/year

* Technology-Based effluent limits for pH will be imposed based upon Federal Regulation 133.102(c) and State Regulation 95.2(1).

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 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
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001

Other Comments:

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

SRSTPs are not required to monitor for Total Nitrogen and Total Phosphorus in new and reissued permits. The receiving stream is not impaired for nutrients

Taylor SRSTP

Region ID: PA
 Workspace ID: PA20210917194333514000
 Clicked Point (Latitude, Longitude): 40.19679, -80.00525
 Time: 2021-09-17 15:43:53 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.0401	square miles
ELEV	Mean Basin Elevation	1181	feet

Low-Flow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0401	square miles	2.26	1400

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
ELEV	Mean Basin Elevation	1181	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	0.00071	ft ³ /s
30 Day 2 Year Low Flow	0.00159	ft ³ /s
7 Day 10 Year Low Flow	0.000154	ft ³ /s
30 Day 10 Year Low Flow	0.00042	ft ³ /s
90 Day 10 Year Low Flow	0.001	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: 4.6.2

StreamStats Services Version: 1.2.22

NSS Services Version: 2.1.2