

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0255939
APS ID 1042492
Authorization ID 1360379

Applicant, Facility and Project Information

Applicant Name	<u>Janet A. George</u>	Facility Name	<u>George SRSTP</u>
Applicant Address	<u>225 Sunridge Drive</u> <u>Freedom, PA 15042-2641</u>	Facility Address	<u>129 Wall Street</u> <u>Rochester, PA 15074-2628</u>
Applicant Contact	<u>Janet A. George</u>	Facility Contact	<u>Same as Applicant</u>
Applicant Phone	<u>(724) 494-9794</u>	Facility Phone	<u>Same as Applicant</u>
Client ID	<u>363976</u>	Site ID	<u>850502</u>
SIC Code	<u>8800</u>	Municipality	<u>New Sewickley Township</u>
SIC Description	<u>Private Households</u>	County	<u>Beaver</u>
Date Application Received	<u>June 21, 2021</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u></u>	WQM App. No.	<u>0421404</u>
Project Description	<u>Application for a new NPDES permit for discharge of treated Sewage.</u>		

Summary of Review

The applicant proposes to construct a 400 GPD single residence sewage treatment plant to replace a malfunctioning on-lot system at an existing 3 bedroom home in New Sewickley Township, Beaver County.

WQM Permit 0421404 will be issued concurrently with this NPDES Permit. The discharge is to Pine Run, which is classified as at WWF located in State Watershed 20-G.

The WQM Permit approves the construction of sewage facilities consisting of:



- A 1,000-gallon dual compartment septic tank with a Zabel A300 effluent filter.
- A Premier Tech Ecoflo EC7-500-C-P coco filter with an integrated effluent pump and DiUV disinfection system.

BOD5, TSS, and Fecal Coliform limitations were imposed based upon the Department's SOP – New and Reissuance Individual SFTF NPDES Permits. Proposed effluent limits and monitoring requirements can be found on page 4 of this document.

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

Sampling frequency for all parameters is 1/year which is consistent with the Department's SOP - New and Reissuance of SFTF Individual NPDES Permit Applications.

For SFTFs / SRSTPs with UV disinfection systems, it is not necessary to require UV intensity or transmittance monitoring in the permit.

Approve	Deny	Signatures	Date
X		 William C. Mitchell, E.I.T. / Environmental Engineering Specialist	July 21, 2021
X		 Christopher J. Kriley, P.E. / Program Manager	July 21, 2021

Summary of Review

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

The applicant does not use eDMR and current policy does not require eDMR to be used for SRSTPs.

Act 537 Planning was approved for this project on June 16, 2021

The Act – 14 PL 834 Municipal Notification were provided by the March 31, 2021 letters and no comments were received.

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, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0004</u>
Latitude	<u>40° 42' 59.00"</u>	Longitude	<u>-80° 12' 1.00"</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Pine Run (WWF)</u>	Stream Code	<u>36569</u>
NHD Com ID	<u>99678246</u>	RMI	<u>2.75</u>
Drainage Area	<u>0.19</u>	Yield (cfs/mi ²)	<u>0.00547</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.00104</u>	Q ₇₋₁₀ Basis	<u>USGS StreamStats Report</u>
Elevation (ft)	<u>1163</u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>20-G</u>	Chapter 93 Class.	<u>WWF</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></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>CENTER TWP WATER AUTH</u>		
PWS Waters	<u>Ohio River</u>	Flow at Intake (cfs)	<u>4,730</u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u></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.

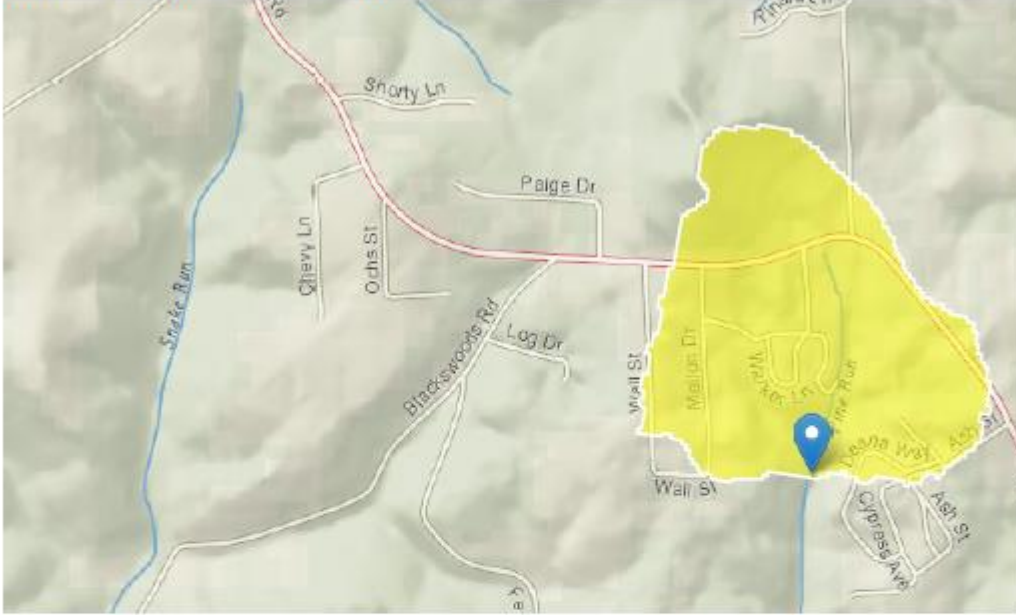
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	0.0004 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: 001

StreamStats Report

Region ID: PA
 Workspace ID: PA20210720155916884000
 Clicked Point (Latitude, Longitude): 40.71386, -80.19715
 Time: 2021-07-20 11:59:32 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.19	square miles
ELEV	Mean Basin Elevation	1170	feet

Low-Flow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.19	square miles	2.26	1400

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
ELEV	Mean Basin Elevation	1170	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	0.00415	ft ³ /s
30 Day 2 Year Low Flow	0.00863	ft ³ /s
7 Day 10 Year Low Flow	0.00104	ft ³ /s
30 Day 10 Year Low Flow	0.00253	ft ³ /s
90 Day 10 Year Low Flow	0.00558	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: 4.6.1

StreamStats Services Version: 1.2.22