

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0255980  
APS ID 1047568  
Authorization ID 1369192

**Applicant, Facility and Project Information**

Applicant Name	<u>Matthew E. Hussak</u>	Facility Name	<u>Hussak Properties SRSTP</u>
Applicant Address	<u>41 Orchard Street</u> <u>Canonsburg, PA 15317</u>	Facility Address	<u>317 Kelly Road</u> <u>Canonsburg, PA 15317</u>
Applicant Contact	<u>Matthew E. Hussak</u>	Facility Contact	<u>Same as applicant</u>
Applicant Phone	<u>(412) 223-2560</u>	Facility Phone	<u>Same as applicant</u>
Client ID	<u>365463</u>	Site ID	<u>852034</u>
SIC Code	<u>8800</u>	Municipality	<u>Industry Borough</u>
SIC Description	<u>Private Households</u>	County	<u>Beaver</u>
Date Application Received	<u>August 31, 2021</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u></u>	WQM App. No.	<u>0421407</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 residence sewage treatment plant to replace a malfunctioning on-lot system at an existing residential property consisting of a three-bedroom home.

The discharge is to UNT 33533 to Wolf Run, which is classified as WWF, located in State Watershed 20-B.

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
X		 Grace Polakoski, E.I.T. / Environmental Engineering Specialist	September 16, 2021
X		 James Vanek, P.E. / Environmental Engineer Manager	September 21, 2021

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° 39' 19.74"</u>	Longitude	<u>-80° 26' 3.08"</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Wolf Run (WWF)</u>	Stream Code	<u>33533</u>
NHD Com ID	<u>99680844</u>	RMI	<u>0.2400</u>
Drainage Area	<u>0.18 sq. mi.</u>	Yield (cfs/mi <sup>2</sup> )	<u>0.005832</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.000958</u>	Q <sub>7-10</sub> Basis	<u>USGS StreamStats</u>
Elevation (ft)	<u>1252</u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>20-B</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>Duquesne Light CO – BVPS #1</u>		
PWS Waters	<u>Ohio River</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u>3.48</u>

Changes Since Last Permit Issuance: N/A - New Permit Issuance.

Other Comments:

Treatment Facility Summary				
<b>Treatment Facility Name:</b> Hussak Properties SRSTP				
<b>WQM Permit No.</b>		<b>Issuance Date</b>		
0421407		Under Department Review		
<b>Waste Type</b>	<b>Degree of Treatment</b>	<b>Process Type</b>	<b>Disinfection</b>	<b>Avg Annual Flow (MGD)</b>
Sewage	Tertiary	Septic Tank, Coco Filter	UV	0.0004
<b>Hydraulic Capacity (MGD)</b>	<b>Organic Capacity (lbs/day)</b>	<b>Load Status</b>	<b>Biosolids Treatment</b>	<b>Biosolids Use/Disposal</b>
0.0004		Not Overloaded	Septic Tank	Other WWTP

Changes Since Last Permit Issuance: N/A - New Permit Issuance.

Other Comments: WQM Permit No. 0421407, 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:

- One (1) 1,000 gal dual-chamber concrete septic tank
- One (1) Ecoflo EC7-500-C-P coco filter with integrated DiUV unit with pump

Act 537 Planning was approved for this project on July 29, 2021.

**Development of Effluent Limitations**

<b>Outfall No.</b> <u>001</u>	<b>Design Flow (MGD)</b> <u>0.0004</u>
<b>Latitude</b> <u>40° 39' 19.74"</u>	<b>Longitude</b> <u>-80° 26' 3.08"</u>
<b>Wastewater Description:</b> <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	Minimum	Avg	IMAX	Sample Type	Frequency: SFTFs	Frequency: SRSTPs
Flow (GPD)	XXX	Report	XXX	Estimate (SRSTPs) Measured (SFTFs)	1/month	1/year
BOD5 (mg/L)	XXX	10	20	Grab	1/month	1/year
TSS (mg/L)	XXX	10	20	Grab	1/month	1/year
pH*	6.0 S.U. Inst. Min.	XXX	9.0 S.U.	Grab	1/month	1/year
TRC (mg/L)	XXX	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)	XXX	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).

**Additional Considerations:**

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

SFTFs/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.

# StreamStats Report

Region ID: PA  
 Workspace ID: PA20210917140939994000  
 Clicked Point (Latitude, Longitude): 40.65546, -80.43432  
 Time: 2021-09-17 10:09:58 -0400



### Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.18	square miles
ELEV	Mean Basin Elevation	1130	feet

### Low-Flow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.18	square miles	2.26	1400

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
ELEV	Mean Basin Elevation	1130	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	0.00379	ft <sup>3</sup> /s
30 Day 2 Year Low Flow	0.00788	ft <sup>3</sup> /s
7 Day 10 Year Low Flow	0.000958	ft <sup>3</sup> /s
30 Day 10 Year Low Flow	0.00232	ft <sup>3</sup> /s
90 Day 10 Year Low Flow	0.00509	ft <sup>3</sup> /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