

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0285137  
APS ID 1090467  
Authorization ID 1443291

**Applicant, Facility and Project Information**

Applicant Name	<u>Connie Stauber</u>	Facility Name	<u>Stauber Properties SRSTP</u>
Applicant Address	<u>1228 Perry Highway</u> <u>Portersville, PA 16051-2412</u>	Facility Address	<u>303 Barrisville Road</u> <u>Beaver Falls, PA 15010-6935</u>
Applicant Contact	<u>Connie Stauber</u>	Facility Contact	<u>Connie Stauber</u>
Applicant Phone	<u>(814) 368-8156</u>	Facility Phone	<u>(814) 368-8156</u>
Client ID	<u>377772</u>	Site ID	<u>865262</u>
SIC Code	<u>8800</u>	Municipality	<u>North Sewickley Township</u>
SIC Description	<u>Private Households</u>	County	<u>Beaver</u>
Date Application Received	<u>June 7, 2023</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u></u>	WQM App. No.	<u>0423402</u>
Project Description	<u>New NPDES permit application.</u>		


**Summary of Review**

The PA Department of Environmental Protection (PADEP/Department) received a new Part I NPDES and Part II WQM permit applications from Advanced Treatment, Inc. (consultant) on behalf of Ms. Connie Stauber (applicant) on June 7, 2023. The applications are for a proposed Small Flow Treatment Facility (SFTF/SRSTP) located in North Sewickley Township, Beaver County with an average design flow of 500 GPD and 0.9 lbs. BOD5/day from an existing 4-bedroom single-family residence. The proposed discharge is into UNT to Brush Creek through Outfall 001.

This fact sheet is developed in accordance with 40 CFR §124.56

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
√		Reza H. Chowdhury, E.I.T. / Project Manager 	June 29, 2023
X		<b>Pravin Patel</b> Pravin C. Patel, P.E. / Environmental Engineer Manager	06/30/2023

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° 48' 15.81"</u>	Longitude	<u>-80° 15' 5.71"</u>
Quad Name	<u>Beaver Falls</u>	Quad Code	<u>1203</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Brush Creek (WWF)</u>	Stream Code	<u>34790</u>
NHD Com ID	<u>126223627</u>	RMI	<u>0.2200</u>
Watershed No.	<u>20-C</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>Impaired</u>		
Cause(s) of Impairment	<u>CAUSE UNKNOWN, PH</u>		
Source(s) of Impairment	<u>ACID MINE DRAINAGE, ACID MINE DRAINAGE</u>		
TMDL Status	<u>Final, April 9, 1999</u>	Name	<u>Brush Creek (Butler Co) TMDL</u>
Nearest Downstream Public Water Supply Intake	<u>Beaver Falls Municipal Authority, Beaver County</u>		
PWS Waters	<u>Beaver River</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u>5.62</u>	Distance from Outfall (mi)	<u>19.19</u>

Changes Since Last Permit Issuance: none, new permit application.

Other Comments:

**PWS intake:** The nearest downstream PWS intake is Beaver Falls Municipal Authority in Beaver County. The PWS is in Beaver River at approximate RMI of 5.62 mile. It is approximately 19.19 miles downstream from proposed outfall 001. The distance is calculated as:

Outfall 001 on UNT 34790 to Brush Creek----- +0.22 mile  
 34790 confluence with Brush Creek 34787 ----- +0.96 mile  
 34787 confluence with Connoquenessing Creek 34025 ----- +11.21 mile  
 34025 confluence with Beaver River 33953 ----- +12.42 mile  
 RMI at PWS in Beaver River ----- -5.62 mile

Total: 19.19 mile

**Anti-Degradation Requirement:**

Chapter 93.4a(b) of the Department's rules and regulations require that "Existing instream water uses and the level of water quality necessary to protect the existing uses shall be maintained and protected." The discharge is into a stream segment designated as Warm Water Fishes (WWF). No High-Quality Waters are impacted by this discharge. No Exceptional Value Waters are impacted by this discharge.

**Class A Wild Trout Streams:**

No Class A Wild Trout Fishery will be impacted by this discharge.

**Brush Creek (Butler Co.) TMDL:**

A TMDL was finalized for the receiving stream on April 9, 1999, named Brush Creek (Butler Co.) TMDL. The TMDL was tailored for only one point-source discharger: Municipal Sewer and Water Authority of Cranberry Township, between Brush Creek RMIs 11.2 and 5.7 (total stream segment of 5.5 miles). No other point sources were considered for this TMDL. The LA from non-point sources were considered non-significant and were accounted for as appropriate background loading. Discharges from SRSTPs are usually considered very insignificant contribution to the TMDL. SRSTPs are considered exempt from TMDL requirements unless the TMDL specifically allocates bulk/aggregated WLA for SRSTPs.

**Treatment Facility summary:**

The application was submitted for a new SRSTP named Stauber Property SRSTP that will be constructed to serve an existing 4-bedroom single dwelling located in 303 Barrisville Road, Beaver Falls, PA 15010. The proposed discharge will be into the applicant's property, from where it will flow into an UNT to Brush Creek (WWF)

The details of the proposed treatment plant will be discussed in the Internal Review & Recommendation (IR&R) that will accompany the WQM permit under WQM permit number 0423402. In summary, the proposed treatment plant will be a Premier Tech Ecoflo EC7-500-P-P-PACK Coco Filter with an integrated septic tank capacity, and UV disinfection unit preinstalled.

The proposed treatment technology isn't listed in the SFTF Manual, therefore, the facility doesn't qualify for coverage under general PAG04 permit.

**Development of effluent limitations:**

Flow monitoring:

Flow monitoring will be placed in this permit in accordance with DEP's SOP BCW-PMT-003 revised May 17, 2019. The reporting frequency set forth is once a year and sample type is Estimate (for SRSTP.)

Biochemical Oxygen Demand (BOD<sub>5</sub>)

An average annual BOD<sub>5</sub> limit of 10 mg/l and IMAX limit of 20 mg/l will be placed in this permit. These limits are consistent with the SOP.

Total Suspended Solids (TSS)

An average annual BOD<sub>5</sub> limit of 10 mg/l and IMAX limit of 20 mg/l will be placed in this permit. These limits are consistent with the SOP.

Fecal Coliform:

A year-round annual average and IMAX limit of 200 No./100 ml will be placed in this permit.

UV:

The SOP indicates that it is not necessary to require UV intensity or transmittance monitoring in the permit for SRSTPs/SFTFs.

The Design Engineers Report accompanied with the WQM permit indicated that the proposed treatment plant can treat the wastewater to generate an effluent that will have maximum CBOD<sub>5</sub> of 10.0 mg/l, TSS of 10.0 mg/l, less than 200 no./100 ml of fecal coliform.

Act 537 Planning was approved under PADEP Code 04924-22-031 on June 2, 2023.

**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.

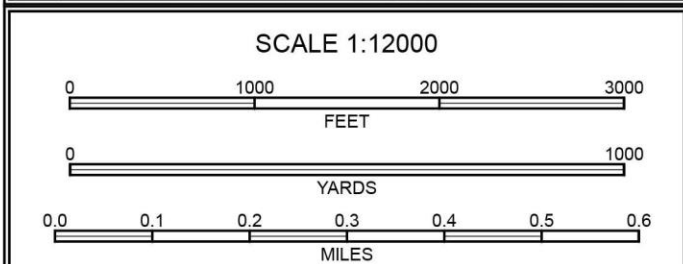
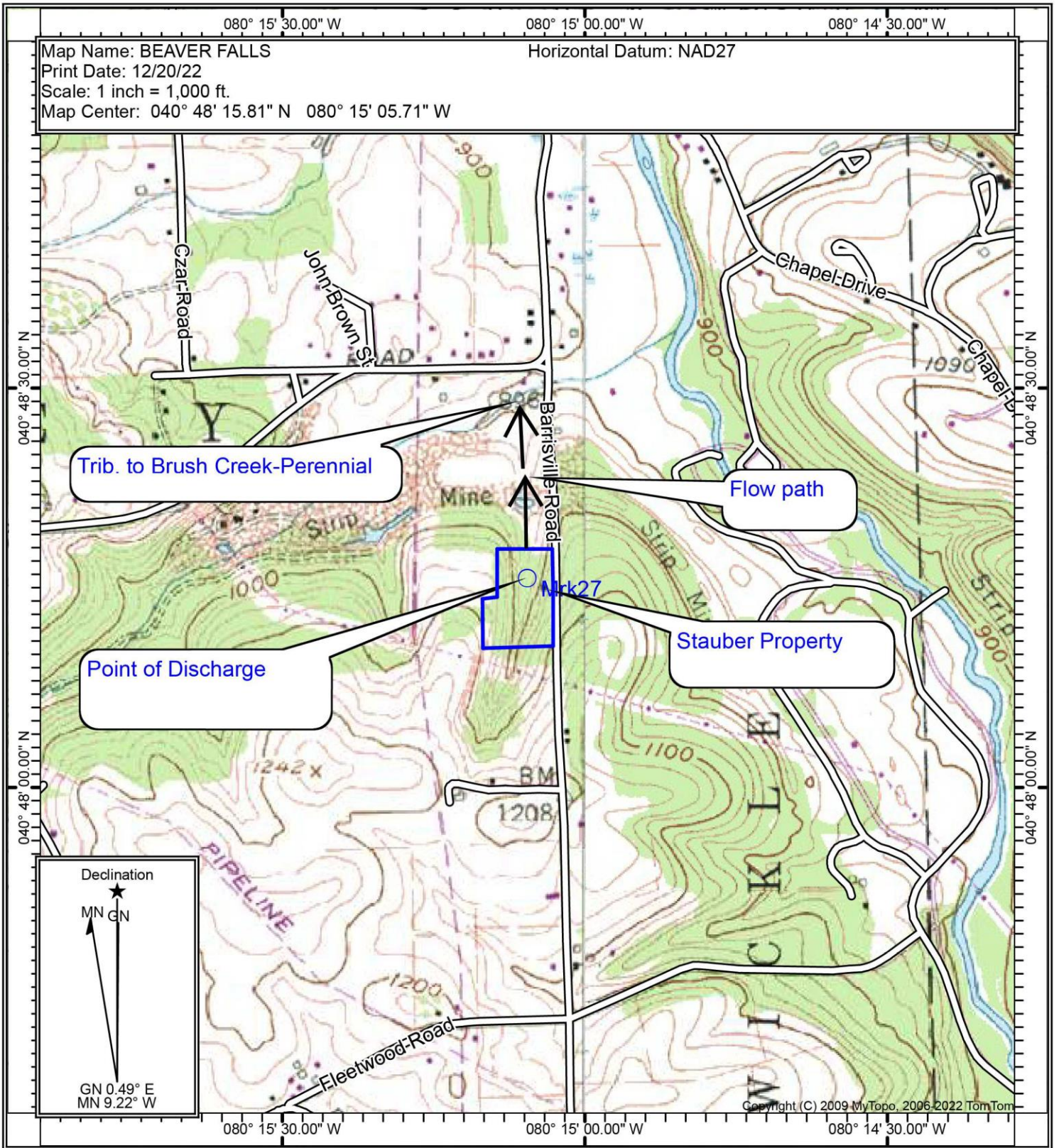
**Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
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: After last treatment unit

Other Comments: None





Stauber Property  
Beaver County  
North Sewickley Township



