

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0293075  
APS ID 1089945  
Authorization ID 1442393

**Applicant, Facility and Project Information**

Applicant Name	<u>David S Carnahan</u>	Facility Name	<u>David Carnahan SRSTP</u>
Applicant Address	<u>310 Evans Road</u> <u>Zelienople, PA 16063-3008</u>	Facility Address	<u>310 Evans Road</u> <u>Zelienople, PA 16063-3008</u>
Applicant Contact	<u>David Carnahan</u>	Facility Contact	<u></u>
Applicant Phone	<u>(832) 928-5932</u>	Facility Phone	<u></u>
Client ID	<u>377621</u>	Site ID	<u>861857</u>
SIC Code	<u>8800</u>	Municipality	<u>Jackson Township</u>
SIC Description	<u>Private Households</u>	County	<u>Butler</u>
Date Application Received	<u>March 23, 2023</u>	WQM Required	<u>Yes – Application Received</u>
Date Application Accepted	<u></u>	WQM App. No.	<u>1023407</u>

Project Description This is an application for a new Single Residence Sewage Treatment Plant (SRSTP) which will serve an existing dwelling.

**Summary of Review**

This is a new discharge which will serve an existing 3-bedroom home and replace an existing malfunctioning on-lot disposal system.

Act 14 – Notification was submitted and received.

Treatment of this facility will consist of (WQM Permit No. 1023407): From the existing home the sewage will flow to a new, 1,000-gallon dual compartment concrete septic tank with a Zabel A300 effluent filter and alarm at outlet, then through a Permier Tech EC7-500-P-P Coco filter tank then through a 1,000-gallon dual compartment concrete tank with a Norweco AT 1500 UV Disinfection unit and pump in the second compartment.

There are no open violations in WMS for the subject Client ID (377621) as of 8/16/2023. [8/28/2023 CWY](#)

Planning was approved on March 22, 2023 and the PNDI is dated December 5, 2022. An updated PNDI was requested and received on August 16, 2023.

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		Dustin Hargenrater Dustin Hargenrater / Civil Engineer Trainee	August 16, 2023
X		Chad W. Yurisc Chad W. Yurisc, P.E. / Environmental Engineer Manager	8/28/2023

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>.0004</u>
Latitude	<u>40° 46' 42.23"</u>	Longitude	<u>-80° 6' 27.25"</u>
Quad Name	<u>Evans City</u>	Quad Code	<u>40080G1</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Connoquenessing Creek (WWF)</u>	Stream Code	<u>63824</u>
NHD Com ID	<u>126218486</u>	RMI	<u>0.3900</u>
Drainage Area	<u>0.059</u>	Yield (cfs/mi <sup>2</sup> )	<u>0.0041</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.00024</u>	Q <sub>7-10</sub> Basis	<u>USGS - StreamStats</u>
Elevation (ft)	<u>1224</u>	Slope (ft/ft)	<u>--</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>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>7.0</u>	Default	<u></u>
Temperature (°F)	<u>75</u>	Default - WWF	<u></u>
Hardness (mg/L)	<u></u>		<u></u>
Other:	<u></u>		<u></u>
Nearest Downstream Public Water Supply Intake	<u>Beaver Falls Municipal Authority</u>		
PWS Waters	<u>Beaver River</u>	Flow at Intake (cfs)	<u>561</u>
PWS RMI	<u>3.5</u>	Distance from Outfall (mi)	<u>31.8</u>

Changes Since Last Permit Issuance: N/A – This is a new discharge (Planning was approved on March 22, 2023)

Other Comments: This SRSTP was designed where applicable in accordance with the SFTF Manual, but it does not qualify for the PAG-04 General Permit due to the use of a Coco Filter.

The Coco filter is reportedly capable of meeting CBOD5 averages of 10 mg/l and TSS averages of 10 mg/l.

In accordance with the SOP, no water quality modeling was performed since this is an SRSTP.

**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.

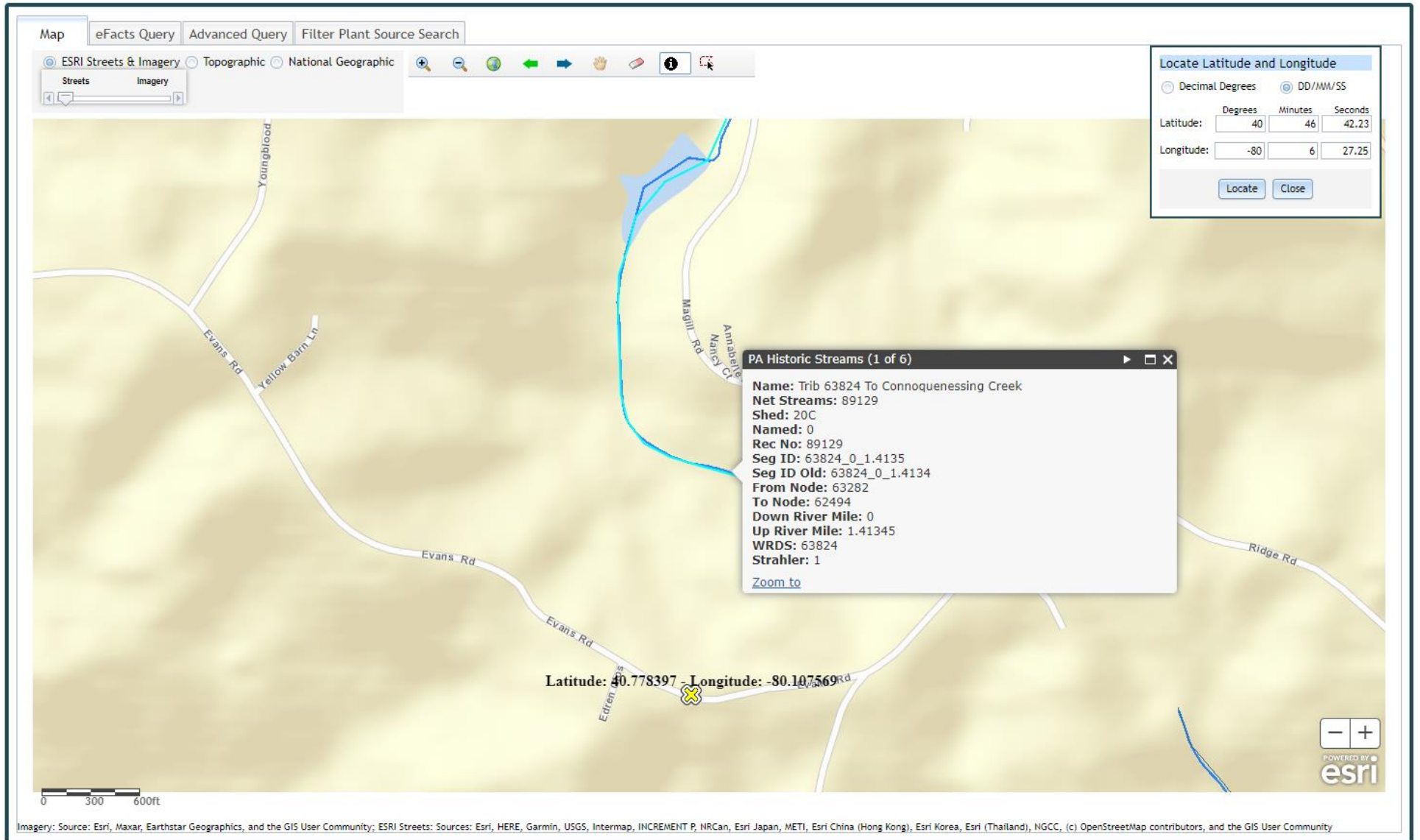
**Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.**

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 (GPD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	Upon Request	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001, after disinfection.

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD5, Total Suspended Solids, and Fecal Coliform are technology-based on Chapter 92a.47. The limits for pH are technology-based on Chapter 93.7.

Attachment 1  
eMap – Location and Receiving Stream Data



Attachment 2  
Google Earth – Site Imagery

