

Application Type Renewal
Wastewater Type Sewage
Facility Type SFTF

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0263508
APS ID 1128814
Authorization ID 1512221

Applicant, Facility and Project Information

Applicant Name <u>Patricia S & William J Sopp</u>	Facility Name <u>Patricia S & William J Sopp SFTF</u>
Applicant Address <u>8983 Neuburger Road</u> <u>Fairview, PA 16415-2903</u>	Facility Address <u>8983 Neuburger Road</u> <u>Fairview, PA 16415-2903</u>
Applicant Contact <u>Joel Carlson</u>	Facility Contact _____
Applicant Phone <u>(814) 476-7202</u>	Facility Phone _____
Client ID <u>271429</u>	Site ID <u>695391</u>
SIC Code <u>4952,8811</u>	Municipality <u>McKean Township</u>
SIC Description <u>Services - Private Households, Trans. & Utilities - Sewerage Systems</u>	County <u>Erie</u>
Date Application Received <u>January 13, 2025</u>	WQM Required <u>Yes</u>
Date Application Accepted _____	WQM App. No. _____
Project Description <u>Renewal application for a Small Flow Treatment Facility (SFTF)</u>	

Summary of Review

This is a renewal application for an existing discharge which serves 2 single family homes and a pet boarding facility.

Act 14 notifications were submitted and received.

AMRs have been submitted.

The treatment facility consists of (WQM Permit No. 2481402): A dual compartment 1,250 gallon septic tank with an effluent filter serving each of two houses, a dual compartment 1,500 gallon septic tank and a 1,000 gallon septic tank both with effluent filters serving the kennels, a common 1,000 gallon dosing tank with alternating pumps, alum feed for phosphorus control, a flow splitter, a surface recirculating sand filter, and calcium hypochlorite disinfection with a 300 gallon contact tank.

There are no open violations in WMS for the subject Client ID (271429) as of February 5th, 2025.

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		Carlee Wilson Carlee Wilson / Environmental Engineering Trainee	February 5, 2025
X		Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager	March 10, 2025

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.0015
Latitude	41° 59' 20.59"	Longitude	-80° 11' 15.10"
Quad Name	0304	Quad Code	Edinboro North
Wastewater Description:		Sewage Effluent	
Receiving Waters	Unnamed Tributary of Elk Creek (CWF, MF)	Stream Code	62575
NHD Com ID	123922470	RMI	
Drainage Area	0.51	Yield (cfs/mi ²)	0.027
Q ₇₋₁₀ Flow (cfs)	0.0138	Q ₇₋₁₀ Basis	USGS- Stream Stats
Elevation (ft)	1056	Slope (ft/ft)	
Watershed No.	15-A	Chapter 93 Class.	CWF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
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			
PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Changes Since Last Permit Issuance:

The monitoring frequency for following parameters: Flow, pH, Total Residual Chlorine (TRC), Carbonaceous Biochemical Oxygen Demand (CBOD5), Total Suspended Solids (TSS), and Fecal Coliform have been adjusted from 2/year to 1/month to comply with the SOP.

Other Comments:

This SFTF is designed where applicable in accordance with the SFTF Manual, but it does not qualify for the PAG-04 General Permit due to the lack of a proprietary system.

In accordance with the SOP, TRC WQBEL modeling was conducted. The TRC limit remains the same and the TRC Evaluation Spreadsheet is attached below.

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.

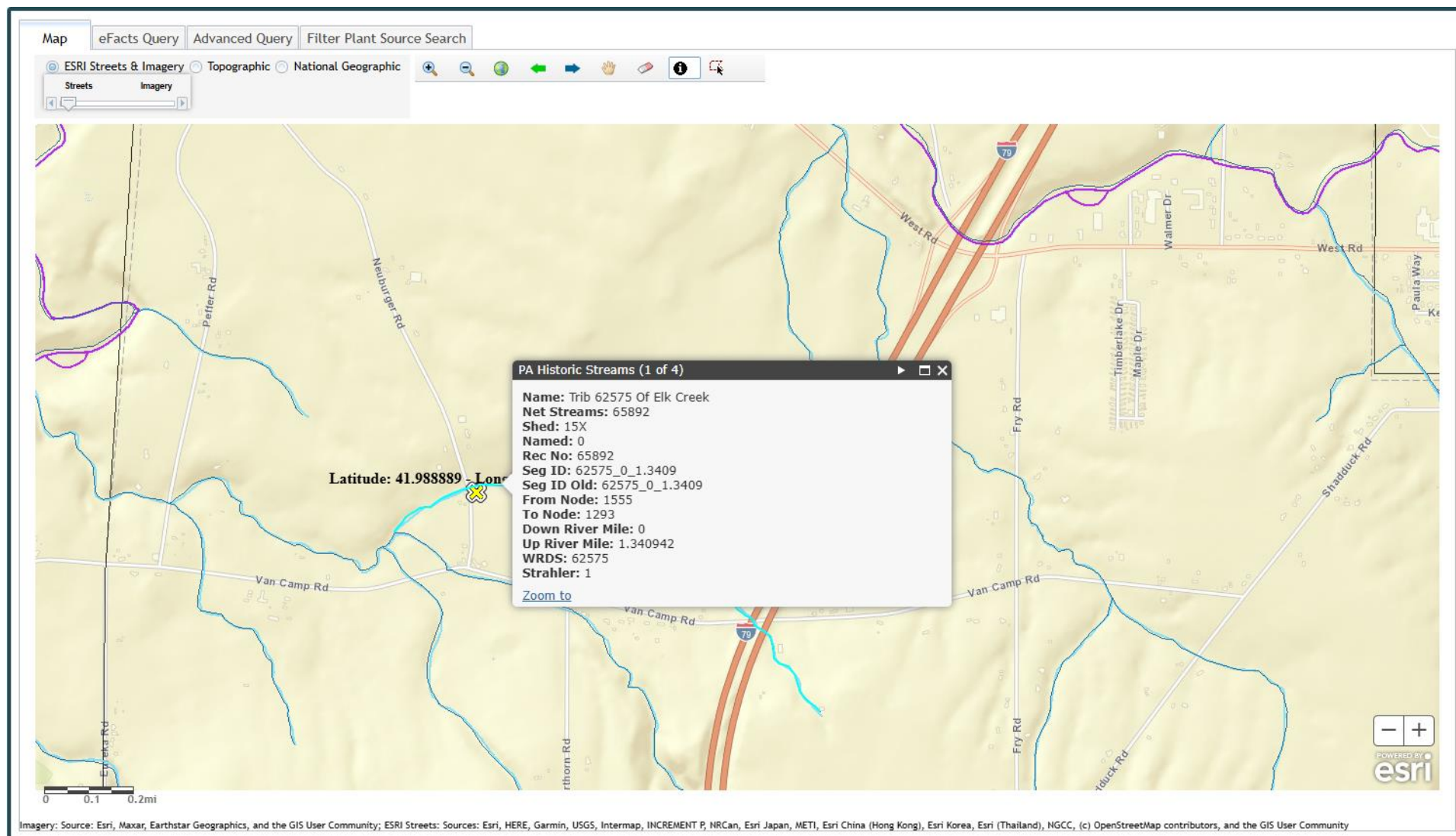
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

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	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
DO	XXX	XXX	4.0 Inst Min	XXX	XXX	XXX	2/year	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/month	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	1000	1/month	Grab
Ammonia	XXX	XXX	XXX	6.0 Annl Avg	XXX	12.0	2/year	Grab
Total Phosphorus	XXX	XXX	XXX	1.0 Annl Avg	XXX	2.0	2/year	Grab

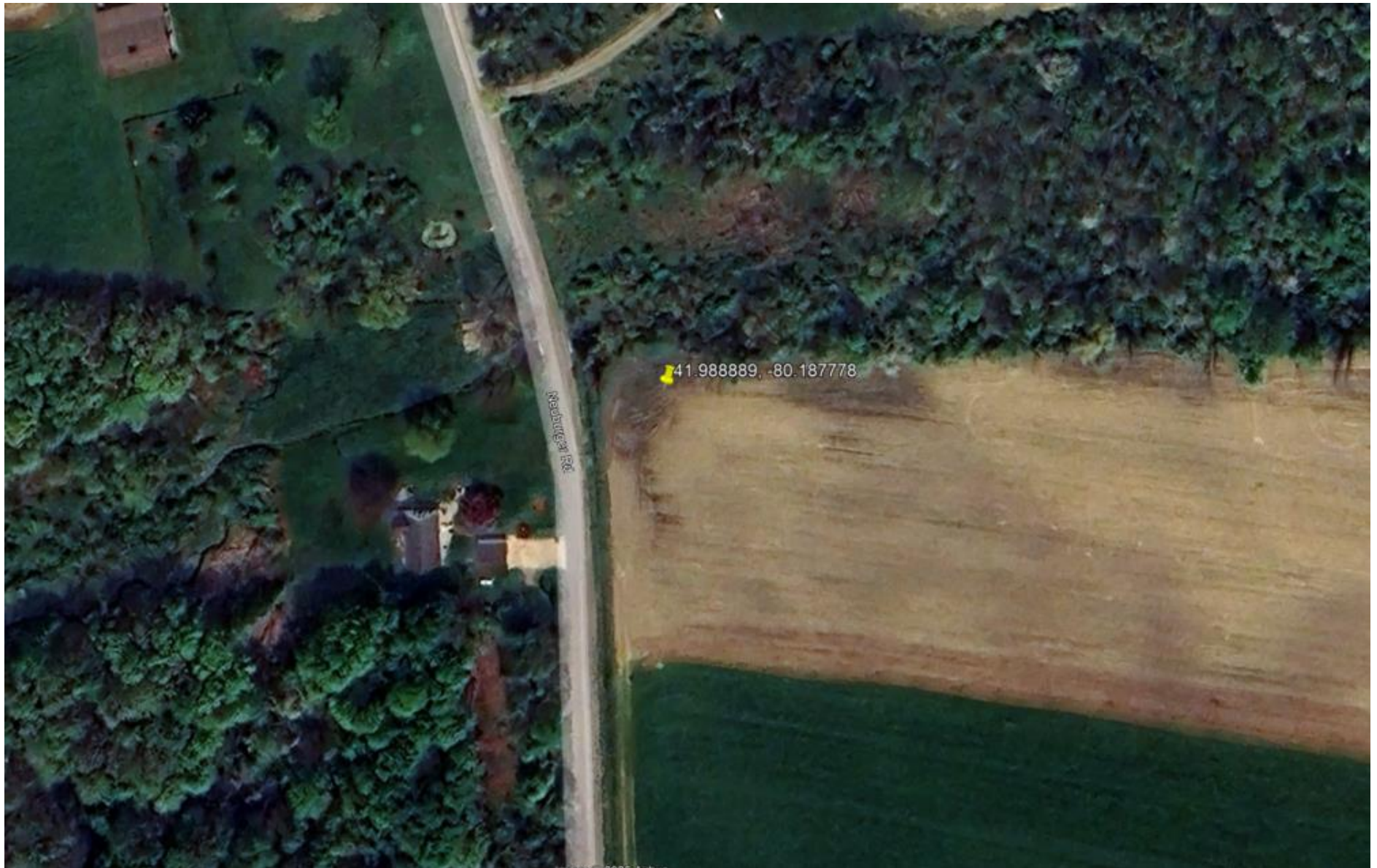
Compliance Sampling Location: Outfall 001- after disinfection

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for pH are technology-based on Chapter 93.7. The limits for Dissolved Oxygen are technology-based on Chapter 93.7. The limits for Total Residual Chlorine (TRC) are technology based on Chapter 92a.48. The limits for CBOD₅, Total Suspended Solids, and Fecal Coliforms are technology-based on Chapter 92a.47. The limits for Ammonia-Nitrogen are water quality-based on Chapter 93.7. The limits for Total Phosphorus are based on Chapter 96.5 to protect the receiving stream.

Attachment 1
eMapPA – Location and Receiving Stream Data



Attachment 2
Google Earth – Aerial Site View



Attachment 3
TRC Evaluation

TRC EVALUATION

0.0138	= Q stream (cfs)	0.5	= CV Daily	
0.0015	= Q discharge (MGD)	0.5	= CV Hourly	
4	= no. samples	1	= AFC_Partial Mix Factor	
0.3	= Chlorine Demand of Stream	1	= CFC_Partial Mix Factor	
0	= Chlorine Demand of Discharge	15	= AFC_Criteria Compliance Time (min)	
0.5	= BAT/BPJ Value	720	= CFC_Criteria Compliance Time (min)	
	= %Factor of Safety (FOS)		=Decay Coefficient (K)	
Source	Reference	AFC Calculations	Reference	CFC Calculations
TRC	1.3.2.iii	WLA afc = 1.916	1.3.2.iii	WLA cfc = 1.861
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373	5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 0.714	5.1d	LTA_cfc = 1.082
Source	Effluent Limit Calculations			
PENTOXSD TRG	5.1f	AML MULT = 1.720		
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.500	BAT/BPJ	
		INST MAX LIMIT (mg/l) = 1.170		