pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**New**	Application No.	**PA0292770**
Wastewater Type	**Sewage**	APS ID	**1078156**
Facility Type	**SRSTP**	Authorization ID	**1421965**

NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP

Applicant, Facility and Project Information

Applicant Name	**Mark Ellenberger**	Facility Name	**Mark Ellenberger SRSTP**
Applicant Address	394 Bullcreek Road	Facility Address	394 Bullceek Road
	Butler, PA 16002-7778		Butler, PA 16002
Applicant Contact	Mark Ellenberger	Facility Contact	
Applicant Phone	(724) 496-5703	Facility Phone	
Applicant Email	elle396@yahoo.com		
Client ID	374399	Site ID	860338
SIC Code	8800	Municipality	Jefferson Township
SIC Description	Private Households	County	Butler
Date Application Received	December 16, 2022	WQM Required	Yes
Date Application Accepted	January 12, 2023	WQM App. No.	1022419

Project Description: Single Residence Sewage Treatment Plant

Summary of Review

This is a new discharge for an existing 3 bedrooms dwelling with proposed construction of a single residence sewage treatment plant.

Proposed treatment will consist of (WQM Permit No. 1022419): Premier Tech EC7-500-P-P PACK Coco filter with integrated septic tank capacity, DiUV disinfection unit and an effluent pump.

Act 14 – Proof of Notification was submitted and received.

SPECTIAL CONDITIONS: NONE

The EPA waiver is in effect.

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		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer Trainee	January 12, 2023
X		Adam J. Pesek (Lead Reviewer) for Vacant / Environmental Engineering Manager	January 17, 2023

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.0004
Latitude	40º 47' 36.06"	Longitude	-79º 51' 35.04"
Quad Name	Saxonburg	Quad Code	40079G7
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary to Patterson Run (CWF)	Stream Code	35204
NHD Com ID	126221631	RMI	0.57
Drainage Area		Yield (cfs/mi^2)	0.001
Q_{7-10} Flow (cfs)	0	Q_{7-10} Basis	Dry Stream
Elevation (ft)	1281	Slope (ft/ft)	---
Watershed No.	20-C	Chapter 93 Class.	CWF
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)	7	Default
Temperature (°F)	20	Default
Hardness (mg/L)	100	Default
Other:		

Nearest Downstream Public Water Supply Intake	PA American Water Co. – Ellwood District		
PWS Waters	Connoquenessing Creek	Flow at Intake (cfs)	67
PWS RMI	0.25	Distance from Outfall (mi)	35 (Approximately)

Changes Since Last Permit Issuance: N/A -This is a proposed discharge (Planning was approved on December 13, 2022)

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 Premier Tech EC7-500-P-P PACK Coco filter unit.

The Premier Tech EC7-500-P-P PACK 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 a 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.

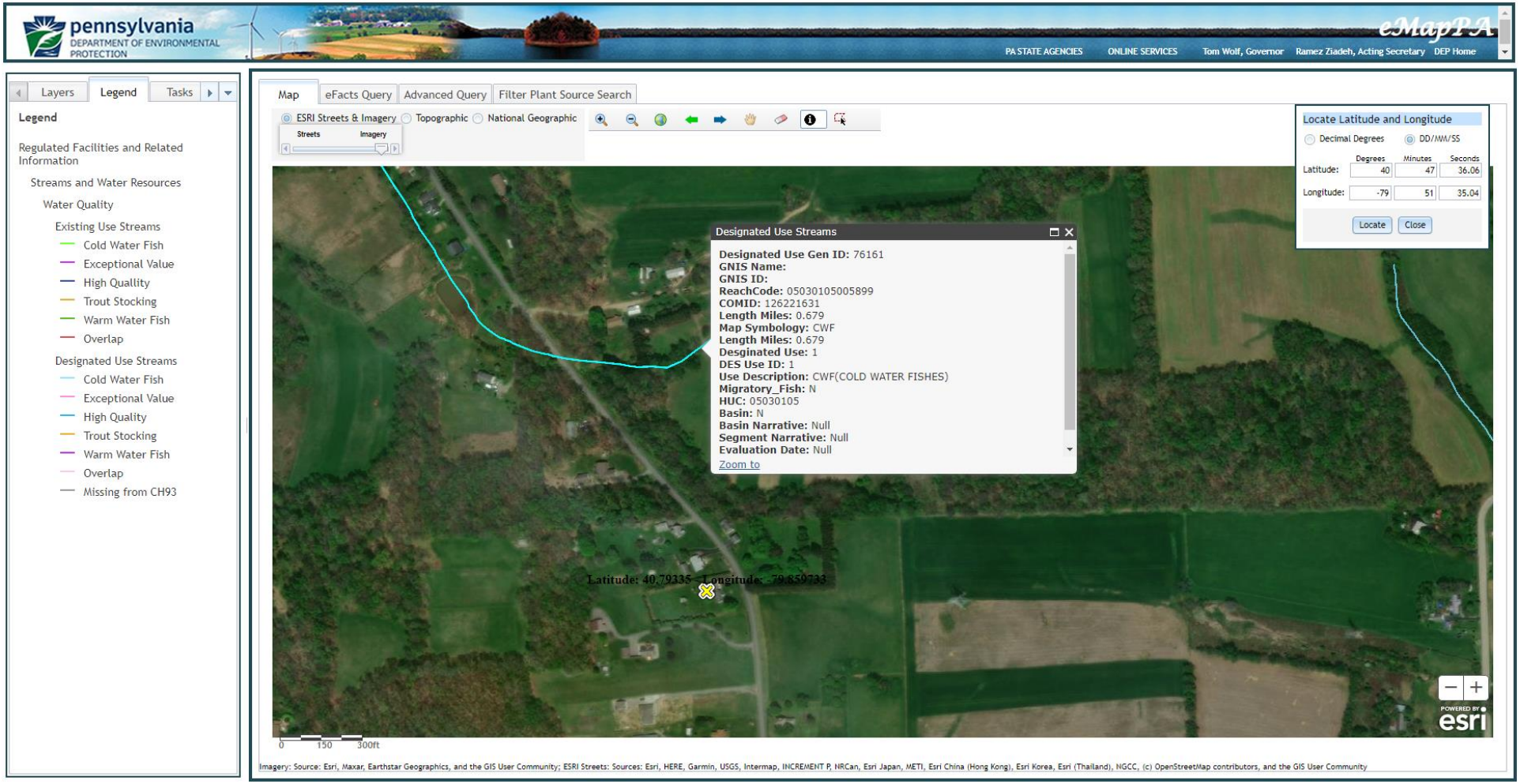
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) 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 UV Disinfection.

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD5, Total Suspended Solids are BPJ/Tech Based on the Department's Small Flow Treatment Facilities Manual. Fecal Coliform is technology-based on Chapter 92a.47. The limits for pH are technology-based on Chapter 93.7.

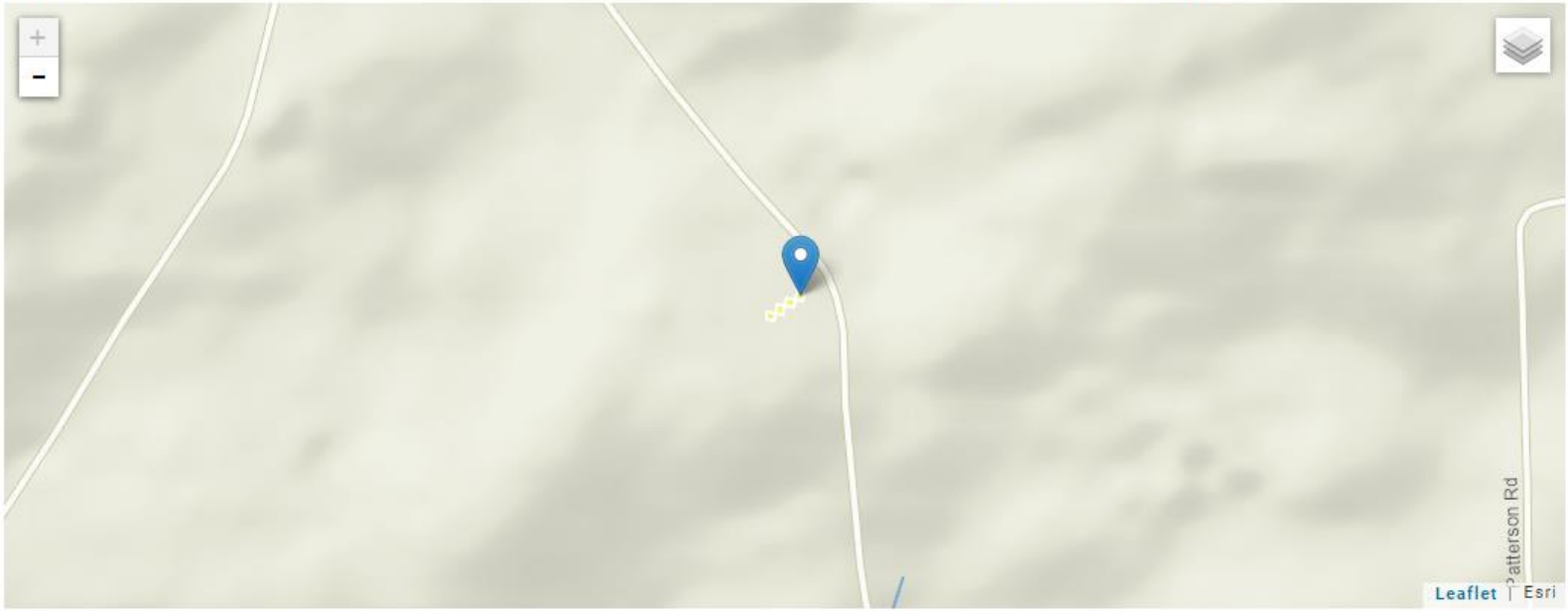
Outfall Location - eMap with Aerial Imagery



Drainage Area Location – StreamStats with Aerial Imagery

StreamStats Report

Region ID:	PA
Workspace ID:	PA20230112193624809000
Clicked Point (Latitude, Longitude):	40.79335, -79.85974
Time:	2023-01-12 14:37:17 -0500



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.000154	square miles