

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0263931
APS ID 1107007
Authorization ID 1472360

Applicant, Facility and Project Information

Applicant Name	<u>Stephen J Gaffney</u>	Facility Name	<u>Stephen Gaffney SRSTP</u>
Applicant Address	<u>2101 Brickyard Road</u> <u>North East, PA 16428-2825</u>	Facility Address	<u>2101 Brickyard Road</u> <u>North East, PA 16428-2825</u>
Applicant Contact	<u>Stephen Gaffney</u>	Facility Contact	<u></u>
Applicant Phone	<u>(724) 575-0520</u>	Facility Phone	<u></u>
Applicant Email	<u>stephengaffney.sg@gmail.com</u>		
Client ID	<u>383675</u>	Site ID	<u>751834</u>
SIC Code	<u>4952,8800</u>	Municipality	<u>North East Township</u>
SIC Description	<u>Private Households, Trans. & Utilities - Sewerage Systems</u>	County	<u>Erie</u>
Date Application Received	<u>January 16, 2024</u>	WQM Required	<u>Yes – Transfer Pending</u> <u>WQG018826 T-3 will be transferred</u> <u>concurrently</u>
Date Application Accepted	<u>February 21, 2024</u>	WQM App. No.	<u></u>
Project Description	<u>Renewal NPDES Permit for a Single Residence Sewage Treatment Plant</u>		

Summary of Review

This is a renewal application for a NPDES Permit for an SRSTP consists of: A dual chamber, 1250-gallon septic tank with Zabel effluent filter on the outlet, a 500-gallon dosing tank, 240 SF, recirculating, subsurface sand filter (RSSF) and ultraviolet light disinfection

Act 14 – Proof of Notification was submitted and received.

SPECIAL CONDITIONS: NONE

The EPA waiver is in effect.

There are NO open violations in WMS for the subject Client ID (383675) as of February 21, 2024.

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	February 21, 2024
		Vacant / Environmental Engineer Manager	Okay to Draft JCD 3/4/2024

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>42° 12' 20.52"</u>	Longitude	<u>-79° 52' 53.41"</u>
Quad Name	<u>Harborcreek</u>	Quad Code	<u>42079B8</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Twelvemile Creek (HQ-CWF, MF)</u>	Stream Code	<u>62300</u>
NHD Com ID	<u>123923647</u>	RMI	<u>1.8000</u>
Drainage Area	<u>0.84 square miles</u>	Yield (cfs/mi ²)	<u>0.1</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.084</u>	Q ₇₋₁₀ Basis	<u>Default</u>
Elevation (ft)	<u>748</u>	Slope (ft/ft)	<u>---</u>
Watershed No.	<u>15-A</u>	Chapter 93 Class.	<u>HQ-CWF, MF</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	
Temperature (°F)	<u>68</u>	Default	
Hardness (mg/L)	<u>100</u>	Default	
Other:	<u></u>		
Nearest Downstream Public Water Supply Intake	<u>PA – Canadian International Boundary in Lake Erie</u>		
PWS Waters	<u>Lake Erie</u>	Flow at Intake (cfs)	<u>---</u>
PWS RMI	<u>---</u>	Distance from Outfall (mi)	<u>---</u>

Changes Since Last Permit Issuance: None.

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 discharge into a High-Quality Watershed.

This is an existing discharge and no changes to effluent quantity or quality are proposed. Therefore, no further anti-degradation considerations are necessary related to this discharge being to a special protection watershed. JCD

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	1/month	Grab
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: Outfall 001, after disinfection.

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD5, Total Suspended Solids are BPJ-based on the Department’s “Small Flow Treatment Facilities Manual.” Fecal Coliform are technology-based on Chapter 92a.47. The limits for pH are technology-based on Chapter 93.7 and the monitoring frequency has been established as “1/month” due to special protection watershed designation (High Quality – HQ).

Outfall Location - eMap with Aerial Imagery

The screenshot shows the Pennsylvania eMapPA web application interface. At the top, the Pennsylvania Department of Environmental Protection logo is on the left, and navigation links for PA State Agencies, Online Services, and state officials are on the right. The main map area displays aerial imagery with stream data overlaid. A legend on the left side is organized into sections: 'Regulated Facilities and Related Information', 'Streams and Water Resources', 'Water Quality', 'Existing Use Streams', 'Designated Use Streams', and 'Boundaries'. The 'Designated Use Streams' section lists categories like Cold Water Fish, Exceptional Value, High Quality, Trout Stocking, and Warm Water Fish. A pop-up window titled 'Designated Use Streams (1 of 3)' is open over a specific stream segment, displaying the following data:

Designated Use Gen ID:	66811
GNIS Name:	
GNIS ID:	
ReachCode:	04120101005019
COMID:	123923647
Length Miles:	2.182
Map Symbology:	HQ
Length Miles:	2.182
Designated Use:	6
DES Use ID:	4
Use Description:	HQ-CWF(HIGH QUALITY-COLD WATER FISHES)
Migratory_Fish:	Y
HUC:	04120101
Basin:	N
Basin Narrative:	Null
Segment Narrative:	Null
Evaluation Date:	Null
Zoom to:	

At the bottom of the map, there is a scale bar (0 to 1 mile) and the Esri logo with the text 'POWERED BY esri'. A small text line at the very bottom reads: 'Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; ESRI Streets: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community.'

Drainage Area Location – StreamStats with Aerial Imagery

StreamStats Report

Region ID:

PA

Workspace ID:

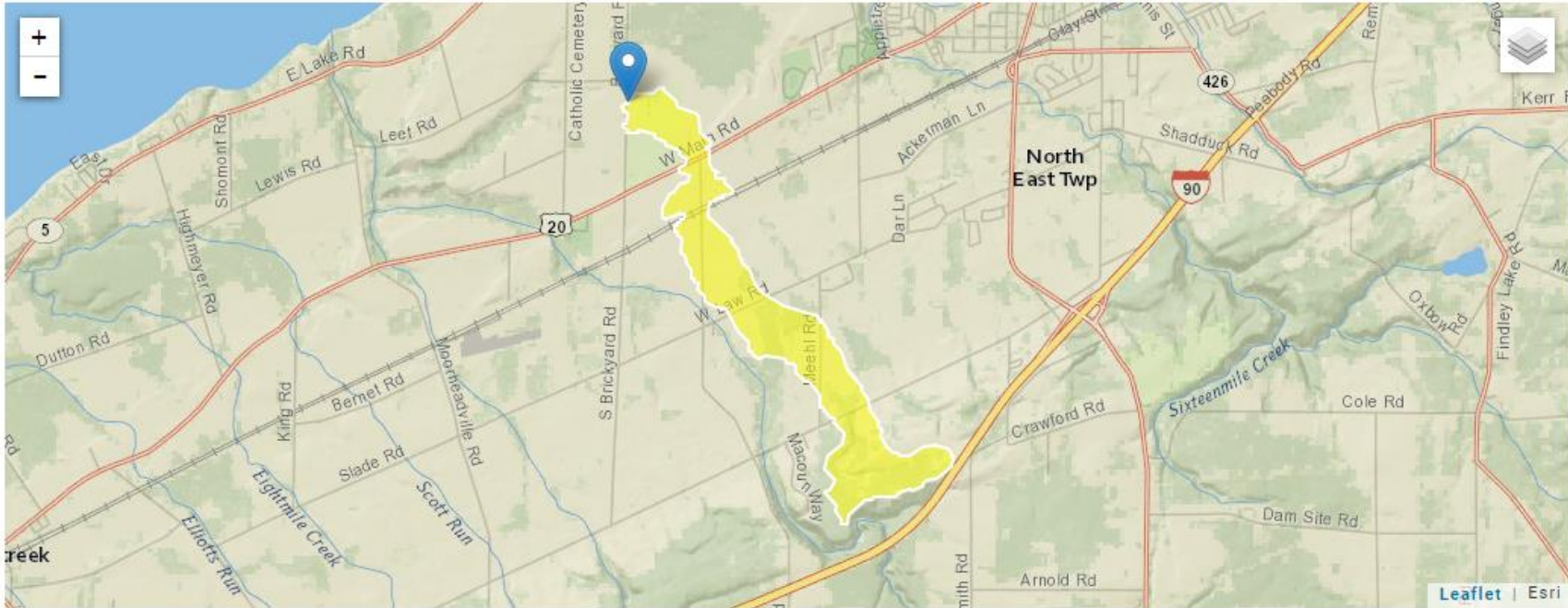
PA20240221152020331000

Clicked Point (Latitude, Longitude):

42.20571, -79.88140

Time:

2024-02-21 10:20:44 -0500



+ Collapse All

> Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.84	square miles