

Application Type New
Wastewater Type Sewage
Facility Type SFTF

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

Application No. PA0292974
APS ID 1081985
Authorization ID 1428698

Applicant, Facility and Project Information

Applicant Name	<u>Blane & Nancy Chase</u>	Facility Name	<u>Blane & Nancy Chase SFTF</u>
Applicant Address	<u>12455 Route 6n</u> <u>Albion, PA 16401-9781</u>	Facility Address	<u>12455 US 6n</u> <u>Albion, PA 16401</u>
Applicant Contact	<u>Nancy Chase</u>	Facility Contact	<u></u>
Applicant Phone	<u>(814) 450-2097</u>	Facility Phone	<u></u>
Applicant Email	<u>chasenancy63@gmail.com</u>		<u></u>
Client ID	<u>375576</u>	Site ID	<u>858776</u>
SIC Code	<u>4952</u>	Municipality	<u>Conneaut Township</u>
SIC Description	<u>Trans. & Utilities - Sewerage Systems</u>	County	<u>Erie</u>
Date Application Received	<u>February 21, 2023</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>March 7, 2023</u>	WQM App. No.	<u>2523406</u>
Project Description	<u>Installation of a Small Flow Treatment Facility</u>		

Summary of Review

This is a new discharge for two existing 3-bedroom single family residences and one 2-bedroom residential house with proposed construction of a small flow treatment facility to replace a malfunctioning on-lot septic system. The SFTF will generate 1200 gallons of sewage per day.

Proposed treatment will consist of (WQM Permit No. 2523406): A 1,000 gallon dual-compartment septic tank will be installed at each house in parallel for a total of 3000 gallons with an Ecoflo Coco Filter EC7-1350-P-G-USA treatment tank, a UV disinfection unit, an effluent pump tank and outfall pipe.

Act 14 – Proof of Notification was submitted and received.

SPECTIAL CONDITIONS: NONE

The EPA waiver is in effect.

There are no open violations listed in WMS for Client ID 375576 as of 3/22/2023. CWY

Approve	Deny	Signatures	Date
X		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer Trainee	March 7, 2023
X		Chad W. Yurisc Chad W. Yurisc, P.E. / Environmental Engineer Manager	3/22/2023

Summary of Review

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.

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>.0012</u>
Latitude	<u>41° 53' 22.3"</u>	Longitude	<u>-80° 25' 36.4"</u>
Quad Name	<u>East Springfield</u>	Quad Code	<u>41080H4</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Marsh Run (CWF, MF)</u>	Stream Code	<u>63448</u>
NHD Com ID	<u>123922075</u>	RMI	<u>0.5000</u>
Drainage Area	<u>0.00131</u>	Yield (cfs/mi ²)	<u>0.1</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.000131</u>	Q ₇₋₁₀ Basis	<u>Default</u>
Elevation (ft)	<u>895</u>	Slope (ft/ft)	<u>---</u>
Watershed No.	<u>15-A</u>	Chapter 93 Class.	<u>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</u>	Default	
Temperature (°F)	<u>20</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: N/A - This is a proposed discharge (Planning was approved on August 15, 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 Ecoflo Coco Filter Unit Model EC7-1350-P-G-USA

The EC7-1350-P-G-USA Ecoflo Coco filter unit is reportedly capable of meeting CBOD₅ averages of 10 mg/L and TSS averages of 10 mg/L.

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 (GPD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	Upon Request	Grab
BOD5	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 Geo Mean	XXX	XXX	1/month	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-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.

Outfall Location - eMap with Aerial Imagery

The screenshot displays 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 shows aerial imagery with several streams overlaid in different colors: cyan for High Quality, purple for Exceptional Value, and blue for Warm Water Fish. A yellow 'X' marker is placed on a cyan stream, with a popup window titled 'Designated Use Streams (1 of 3)' providing detailed metadata for that stream. The popup includes fields for Gen ID, Name, ReachCode, COMID, Length Miles, Map Symbology, Designated Use, DES Use ID, Use Description, Migratory Fish status, HUC, Basin, Basin Narrative, Segment Narrative, Evaluation Date, and Last Fdit Date. A 'Zoom to' link is also present. To the right of the map, a 'Locate Latitude and Longitude' dialog box is open, showing the coordinates for the selected point: Latitude 41° 53' 22.3" and Longitude -80° 25' 36.4". The left sidebar contains a legend with categories for Regulated Facilities, Streams and Water Resources, and Water Quality. The legend for Designated Use Streams lists: Cold Water Fish (cyan), Exceptional Value (purple), High Quality (blue), Trout Stocking (orange), Warm Water Fish (green), and Overlap (pink).

Designated Use Streams (1 of 3)

- Designated Use Gen ID: 53719
- GNIS Name:
- GNIS ID:
- ReachCode: 04120101000572
- COMID: 123922075
- Length Miles: 1.627
- Map Symbology: CWF
- Length Miles: 1.627
- Designated Use: 2
- DES Use ID: 1
- Use Description: CWF(COLD WATER FISHES)
- Migratory_Fish: Y
- HUC: 04120101
- Basin: N
- Basin Narrative: Null
- Segment Narrative: Null
- Evaluation Date: Null
- Last Fdit Date: Null
- [Zoom to](#)

Locate Latitude and Longitude

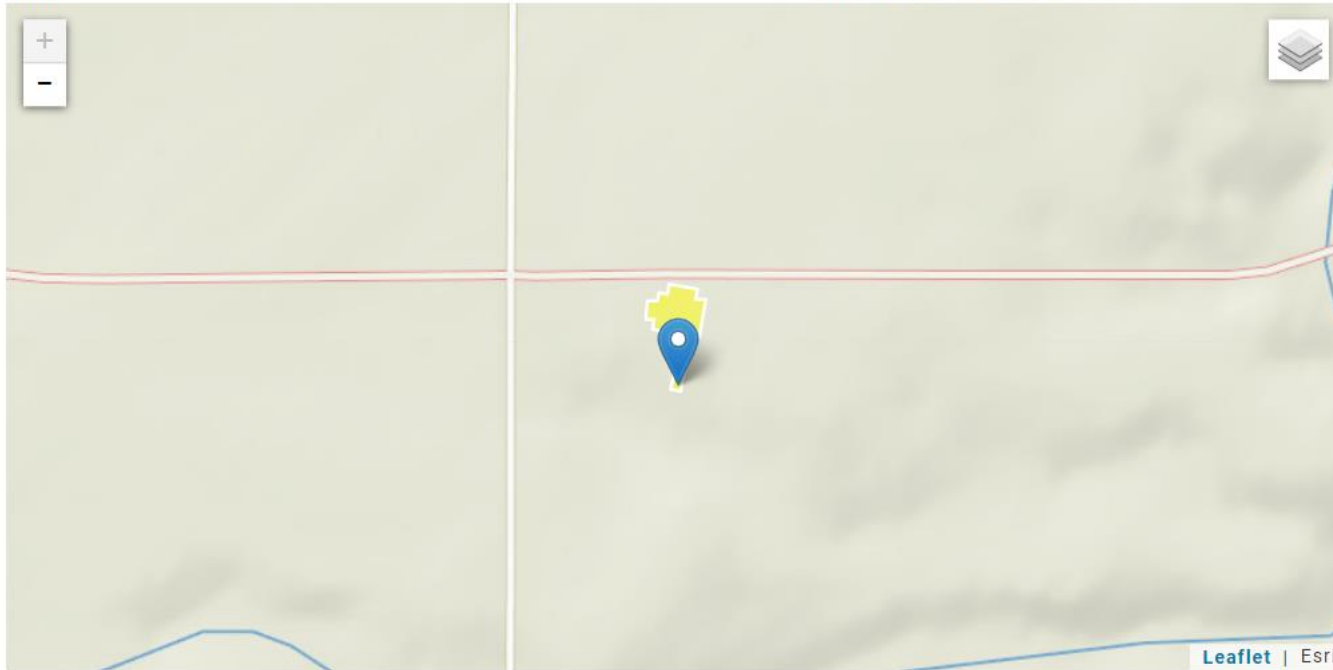
Latitude: 41 53 22.3
Longitude: -80 25 36.4

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: PA20230307180826039000
Clicked Point (Latitude, Longitude): 41.88957, -80.42677
Time: 2023-03-07 13:08:47 -0500



Collapse All

➤ Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.00131	square miles