

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0291196
APS ID 1070154
Authorization ID 1407863

Applicant, Facility and Project Information

Applicant Name	<u>Destin & Meghan DeMarion</u>	Facility Name	<u>Destin & Meghan DeMarion SRSTP</u>
Applicant Address	<u>7814 Dutton Road</u> <u>Harborcreek, PA 16421-1115</u>	Facility Address	<u>7814 Dutton Road</u> <u>Harborcreek, PA 16421-1115</u>
Applicant Contact	<u>Destin DeMarion</u>	Facility Contact	<u></u>
Applicant Phone	<u>(724) 992-2345</u>	Facility Phone	<u></u>
Client ID	<u>372078</u>	Site ID	<u>854067</u>
SIC Code	<u>8800</u>	Municipality	<u>Harborcreek Township</u>
SIC Description	<u>Private Households</u>	County	<u>Erie</u>
Date Application Received	<u>August 24, 2022</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>September 13, 2022</u>	WQM App. No.	<u>2522431</u>
Project Description	<u>Single Residence Sewage Treatment Plant (SRSTP).</u>		

Summary of Review

This is a new discharge for an existing 3-bedroom home to a repair of an existing malfunctioning on-lot system.

Act 14 – Proof of Notification was submitted and received.

Proposed treatment will consist of (WQM Permit No. 2522431): A 1000-gallon dual chambered concrete septic tank with an 8" Polylok A-100 effluent filter on tank outlet, followed by a Premier Tech EC7-500-C-P-USA Coco Filter unit with integrated ultraviolet (UV) disinfection unit and pump preinstalled.

The EPA Waiver is in effect.

There are no open violations in WMS for the subject Client ID (372078) as of 11/14/2022.

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		Jordan A. Frey, E.I.T. Jordan A. Frey, E.I.T. / Project Manager	November 14, 2022
X		Adam J. Pesek (Lead Reviewer) for Vacant / Environmental Program Manager	November 16, 2022

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0004</u>
Latitude	<u>42° 11' 16.12"</u>	Longitude	<u>-79° 56' 5.45"</u>
Quad Name	<u>Barkeyville</u>	Quad Code	<u>41079B8</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Eightmile Creek (CWF, MF)</u>	Stream Code	<u>62319</u>
NHD Com ID	<u>123923659</u>	RMI	<u>0.3100</u>
Drainage Area	<u>3.33</u>	Yield (cfs/mi ²)	<u>0.1</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.333</u>	Q ₇₋₁₀ Basis	<u>Default</u>
Elevation (ft)	<u>664</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>7.0</u>	Default	<u></u>
Temperature (°C)	<u>20</u>	Default	<u></u>
Hardness (mg/L)	<u>100</u>	Default	<u></u>
Other:	<u></u>		<u></u>
Nearest Downstream Public Water Supply Intake	<u>Erie Water Works</u>		
PWS Waters	<u>Lake Erie (Chestnut and West)</u>	Flow at Intake (cfs)	<u>N/A</u>
PWS RMI	<u>N/A</u>	Distance from Outfall (mi)	<u>1.93</u>

Changes Since Last Permit Issuance: N/A – This is a proposed discharge (Planning was approved on March 4, 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 Coco Filter.

The Coco Filter unit 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 disinfection.

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD₅ and Total Suspended Solids are BPJ limits based on the 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.

Attachment 1
eMap – Location Map

Map eFacts Query Advanced Query Filter Plant Source Search

ESRI Streets & Imagery Topographic National Geographic

Streets Imagery

Latitude: 42.187556 - Longitude: -79.091515

PA Historic Streams (1 of 5)

- Name: Eightmile Creek
- Net Streams: 65417
- Shed: 15X
- Named: 1
- Rec No: 65417
- Seg ID: 62319_1.5817_2.6579
- Seg ID Old: 62319_1.5817_2.6579
- From Node: 88
- To Node: 65
- Down River Mile: 1.581709
- Up River Mile: 2.657908
- WRDS: 62319
- Strahler: 3

Zoom to

0 0.1 0.2mi

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Imagery: undefined; 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

Attachment 2
Google Earth Imagery

