

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0291391
APS ID 1074726
Authorization ID 1415907

Applicant, Facility and Project Information

Applicant Name	<u>Beth Carlson</u>	Facility Name	<u>Beth Carlson SRSTP</u>
Applicant Address	<u>124 Heath Drive</u> <u>Baden, PA 15005-9616</u>	Facility Address	<u>Mccullough Road</u> <u>Sharpsville, PA 16150</u>
Applicant Contact	<u>Beth Carlson</u>	Facility Contact	<u>Beth Carlson</u>
Applicant Phone	<u>(412) 848-8379</u>	Facility Phone	<u>(412) 848-8379</u>
Email	<u>Carlson8@aol.com</u>		
Client ID	<u>373425</u>	Site ID	<u>859475</u>
SIC Code	<u>8800</u>	Municipality	<u>Jefferson Township</u>
SIC Description	<u>Private Households</u>	County	<u>Mercer</u>
Date Application Received	<u>October 14, 2022</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>November 8, 2022</u>	WQM App. No.	<u>4322409</u>
Project Description	<u>Single Residence Sewage Treatment Plant</u>		

Summary of Review

This is a new discharge from a proposed 3-bedroom home (new construction).

Act 14 – Proof of Notification was submitted and received.

Proposed treatment will consist of (WQM Permit No. 4322409): A Norweco Singulair Model 960 aerobic unit consisting of a pretreatment chamber, an aeration chamber, and a final clarification chamber, a Norweco Biofilm Reactor, and a Norweco AT 1500 disinfection unit all in series discharging through a 4" gravity discharge pipe.

SPECIAL 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	November 14, 2022
X		Vacant / Environmental Engineer Manager	Okay to Darft JCD 11/14/2022

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>41° 15' 34.2"</u>	Longitude	<u>-80° 20' 36.6"</u>
Quad Name	<u>Fredonia</u>	Quad Code	<u>41080C3</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Daley Run (WWF)</u>	Stream Code	<u>36062</u>
NHD Com ID	<u>130025757</u>	RMI	<u>2.12</u>
Drainage Area	<u>1.2 Sq. Mi. (StreamStats)</u>	Yield (cfs/mi ²)	<u>0.1</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.12</u>	Q ₇₋₁₀ Basis	<u>Default</u>
Elevation (ft)	<u>1069</u>	Slope (ft/ft)	<u>---</u>
Watershed No.	<u>20-A</u>	Chapter 93 Class.	<u>WWF</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>25</u>	Default	
Hardness (mg/L)	<u>100</u>	Default	
Other:	<u></u>		
Nearest Downstream Public Water Supply Intake	<u>Pennsylvania American Water Company - New Castle</u>		
PWS Waters	<u>Shenango River</u>	Flow at Intake (cfs)	<u>16.2</u>
PWS RMI	<u>5.1</u>	Distance from Outfall (mi)	<u>41.06 (approximate)</u>

Changes Since Last Permit Issuance: N/A - This is a proposed discharge (Planning was approved on October 3, 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 Norweco Singlair Model 960.

The Norweco 960 is reportedly capable of meeting CBOD5 averages of 6 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, and 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. The header includes the Pennsylvania Department of Environmental Protection logo and navigation links for PA State Agencies, Online Services, and DEP Home. The main interface features a map of a rural area with a stream highlighted in cyan. A data popup window titled "Designated Use Streams (1 of 3)" is open over the stream, displaying the following information:

- Designated Use Gen ID: 59773
- GNIS Name: Daley Run
- GNIS ID: 01198149
- ReachCode: 05030102001037
- COMID: 130025757
- Length Miles: 1.178
- Map Symbology: WWF
- Length Miles: 1.178
- Designated Use: 12
- DES Use ID: 8
- Use Description: WWF(WARM WATER FISHES)
- Migratory_Fish: N
- HUC: 05030102
- Basin: N
- Basin Narrative: Null
- Segment Narrative: Null
- Evaluation Date: Null

The popup also includes a "Zoom to" link. On the right side of the map, there is a "Locate Latitude and Longitude" tool with input fields for Degrees, Minutes, and Seconds for both Latitude (41, 15, 34.2) and Longitude (-80, 20, 36.6), along with "Locate" and "Close" buttons. The left sidebar contains a legend for "Regulated Facilities and Related Information", "Streams and Water Resources", and "Boundaries". The map includes a scale bar (0 to 300ft) and a "POWERED BY esri" logo in the bottom right corner.

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