

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0255246
APS ID 1057417
Authorization ID 1386155

Applicant, Facility and Project Information

Applicant Name	<u>Charles R Culotta</u>	Facility Name	<u>Culotta SRSTP</u>
Applicant Address	<u>6 E Clarke Avenue</u> <u>Milford, DE 19963</u>	Facility Address	<u>486 Red Oak Lane</u> <u>Ohiopyle, PA 15470</u>
Applicant Contact	<u>Charles Culotta</u>	Facility Contact	<u>Same as applicant</u>
Applicant Phone	<u>302-236-5211</u>	Facility Phone	<u>Same as applicant</u>
Client ID	<u>334921</u>	Site ID	<u>822203</u>
SIC Code	<u>8800</u>	Municipality	<u>Wharton Township</u>
SIC Description	<u>Private Households</u>	County	<u>Fayette</u>
Date Application Received	<u>January 27, 2022</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>March 11, 2022</u>	WQM App. No.	<u>2617402</u>
Project Description	<u>NPDES renewal</u>		

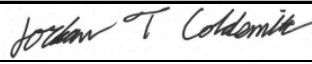

Summary of Review

The applicant has applied for a renewal of NPDES Permit No. PA0255246, which was previously issued by the Department on August 1, 2017. That permit expires on July 31, 2022.

The discharge is to Meadow Run, which is classified as at HQ-CWF located in State Watershed 19-E.

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 Coldsmith / Environmental Engineering Specialist	April 14, 2022
x		 Mahbuba Iasmin, Ph.D., P.E. / Environmental Engineering Manager	May 10, 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>0.0004</u>
Latitude	<u>39° 51' 7"</u>	Longitude	<u>-79° 35' 32"</u>
Quad Name	<u>Fort Necessity</u>	Quad Code	<u>39079G5</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Meadow Run (HQ-CWF)</u>	Stream Code	<u>38488</u>
NHD Com ID	<u>69922189</u>	RMI	<u>11.9</u>
Drainage Area	<u>4.43</u>	Yield (cfs/mi ²)	<u>0.01609</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.0713</u>	Q ₇₋₁₀ Basis	<u>USGS StreamStat</u>
Elevation (ft)	<u>2141</u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>19-E</u>	Chapter 93 Class.	<u>HQ-CWF</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>N/A</u>	Name	<u></u>
Background/Ambient Data		Data Source	
pH (SU)	<u></u>	<u></u>	
Temperature (°F)	<u></u>	<u></u>	
Hardness (mg/L)	<u></u>	<u></u>	
Other:	<u></u>	<u></u>	
Nearest Downstream Public Water Supply Intake	<u>NORTH FAYETTE CNTY MUNI AUTH</u>		
PWS Waters	<u>Youghiogheny River</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u>27.6</u>

Changes Since Last Permit Issuance: none

Other Comments: N/A

Treatment Facility Summary				
Treatment Facility Name: Culotta SRSTP				
WQM Permit No.		Issuance Date		
2617402		April 6, 2018		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	Septic Tank Sand Filter W/Sol Removal	Ultraviolet	0.0004
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0004	0.8	Not Overloaded		Other WWTP

Changes Since Last Permit Issuance: None

Other Comments:

Existing SRSTP consists of:

- One EcoFlo Biofilter EC7-600P-P-USA Treatment Unit
- One Polylok PL-625 Septic Tank Effluent Filter
- One DiUV-Stream Ultraviolet Disinfection Unit
- Four-inch Diameter Outfall Sewer
- Control Panel with Alarm System

Compliance History

Operations Compliance Check Summary Report

Facility: Culotta SRSTP

NPDES Permit No.: PA0255246

Compliance Review Period: 4/2017 – 4/2022

Inspection Summary:

INSP ID	INSPECTED DATE	INSP TYPE	AGENCY	INSPECTION RESULT DESC
3236942	08/19/2021	Administrative/File Review	PA Dept of Environmental Protection	No Violations Noted
3245119	08/23/2021	Compliance Evaluation	PA Dept of Environmental Protection	No Violations Noted

Violation Summary:

No violations

Open Violations by Client ID:

No open violations for client id 334921

Enforcement Summary:

No open enforcements

DMR Violation Summary:

No DMR violations

Compliance Status:

Permittee in compliance.

Completed by: John Murphy

Completed date: 4/19/2022

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>0.0004</u>
Latitude <u>39° 51' 7.00"</u>	Longitude <u>-79° 35' 32.00"</u>
Wastewater Description: <u>Sewage Effluent</u>	

Technology-Based Limitations

The following effluent limitations and monitoring requirements, at a minimum, will be established in all new and renewed SFTF permits based on the requirements of DEP’s “Standard Operating Procedure (SOP) for Clean Water Program New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Application” (SOP No. BCW-PMT-003, Version 1.8, Final, November 9, 2012, Revised May 17, 2019).

Parameter	Avg	IMAX	Sample Type	Frequency: SFTFs	Frequency: SRSTPs
Flow (GPD)	Report	XXX	Estimate (SRSTPs) Measured (SFTFs)	1/month	1/year
BOD5 (mg/L)	10	20	Grab	1/month	1/year
TSS (mg/L)	10	20	Grab	1/month	1/year
pH*	6.0 S.U. Inst. Min.	9.0 S.U.	Grab	1/month	1/year
TRC (mg/L)	Report for SRSTPs; Use TRC Spreadsheet to determine WQBELs or 0.02 mg/L for SFTFs		Grab	1/month	1/year
Fecal Coliform (No./100 ml)	200 Geometric Mean (SFTFs) / Average (SRSTPs)		Grab	1/month	1/year

* Technology-Based effluent limits for pH will be imposed based upon Federal Regulation 133.102(c) and State Regulation 95.2(1).

Additional TBELs:

Outfall 001 discharges to Meadow Run, which is classified as a HQ-CWF.

The following Antidegradation Best Available Combination of Technologies (ABACT) effluent limits, at a minimum, will be established based on the requirements of DEP’s “Water Quality Antidegradation Implementation Guidance” (Doc. No. 391-0300-002; November 29, 2003).

Parameter	Treatment Process Performance Expectations (mg/L)		
	<2,000 gpd	2,000-50,000 gpd	>50,000 gpd
CBOD ₅ (May 1 – Oct. 31)	10	10	10
CBOD ₅ (Nov. 1 – Apr. 30)	20	20	10
Suspended Solids	20	10	10
NH ₃ -N (May 1 – Oct. 31)	5.0	3.0	1.5
NH ₃ -N (Nov. 1 – Apr. 30)	15.0	9.0	4.5
Effective disinfection	Disinfection should be accomplished using a method that leaves no detectable residual. Disinfection using ultra-violet light or other non-chlorine based systems is encourage and must be considered.		
Other parameters, as needed	<i>Determined by the size and characteristics of the proposed discharge, may include – NO₂/NO₃-N, Total Phosphorus, Copper, Lead, Zinc</i>		

The limitations and monitoring requirements, specified on page 7 of this Fact Sheet, reflect the most stringent limitation amongst the above Technology-Based Effluent Limitations.

Note: no new limits will be imposed for ammonia or for CBOD5, the current BOD limits address these two parameters

Additional Considerations:

For SFTFs/SRSTPs with UV disinfection systems, it is not necessary to require UV intensity or transmittance monitoring in this permit.

SFTFs/SRSTPs are not required to monitor for Total Nitrogen and Total Phosphorus in new and reissued permits. The receiving stream is not impaired for nutrients.

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 (MGD)	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/year	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	1000	1/year	Grab

Compliance Sampling Location: Outfall 001

Other Comments: N/A

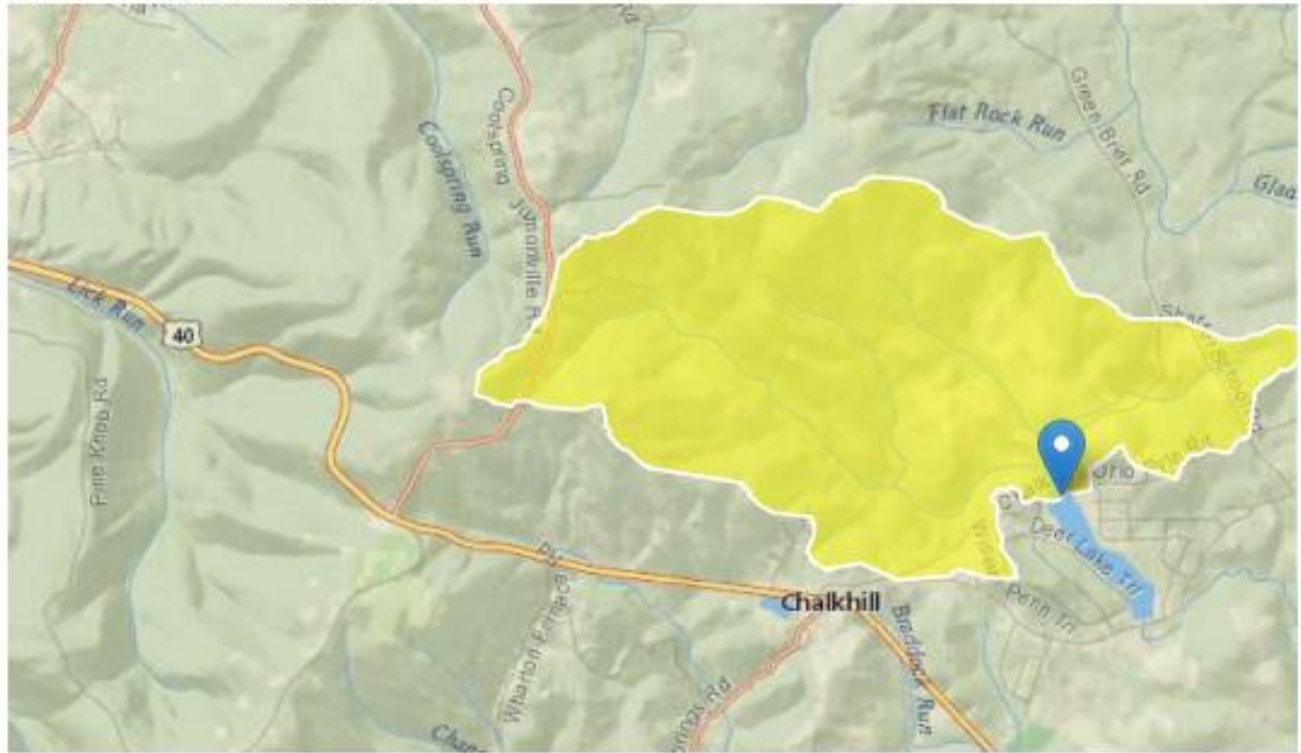
StreamStats Report

Region ID: PA

Workspace ID: PA20220418125827329000

Clicked Point (Latitude, Longitude): 39.85156, -79.59623

Time: 2022-04-18 08:58:46 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	4.43	square miles
ELEV	Mean Basin Elevation	2141	feet

Low-Flow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	4.43	square miles	2.26	1400

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
ELEV	Mean Basin Elevation	2141	feet	1050	2580

Low-Flow Statistics Flow Report [Low Flow Region 4]

PIl: Prediction Interval-Lower, PIu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	SE	ASEp
7 Day 2 Year Low Flow	0.248	ft ³ /s	43	43
30 Day 2 Year Low Flow	0.462	ft ³ /s	38	38
7 Day 10 Year Low Flow	0.0713	ft ³ /s	66	66
30 Day 10 Year Low Flow	0.144	ft ³ /s	54	54
90 Day 10 Year Low Flow	0.312	ft ³ /s	41	41

Low-Flow Statistics Citations

Stuckey, M.H., 2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)

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Application Version: 4.8.1

StreamStats Services Version: 1.2.22

NSS Services Version: 2.1.2