

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0253499
APS ID 1057559
Authorization ID 1386365

Applicant, Facility and Project Information

Applicant Name	<u>Ms. Janice Polito</u>	Facility Name	<u>Polito SRSTP</u>
Applicant Address	<u>256 Park Lane</u> <u>Darlington, PA 16115-3118</u>	Facility Address	<u>256 Park Lane</u> <u>Darlington, PA 16115-3118</u>
Applicant Contact	<u>Ms. Janice Polito</u>	Facility Contact	<u>Same as Applicant</u>
Applicant Phone	<u>(724) 827-8411</u>	Facility Phone	<u>Same as Applicant</u>
Client ID	<u>257594</u>	Site ID	<u>681714</u>
SIC Code	<u>4952</u>	Municipality	<u>Big Beaver Borough</u>
SIC Description	<u>Sewerage Systems</u>	County	<u>Beaver</u>
Date Application Received	<u>January 24, 2022</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u></u>	WQM App. No.	<u>0407401</u>
Project Description	<u>Application for a renewal of an existing NPDES Permit for the discharge of treated Sewage.</u>		

Summary of Review

The applicant has applied for a renewal of an existing NPDES Permit, which was previously issued by the Department on July 13, 2017. That permit expires on July 31, 2022.

The discharge is to UNT of CLARKS RUN, which is classified as HQ-CWF, located in State Watershed 20-B. CLARKS RUN is tributary to NORTH FORK LITTLE BEAVER CREEK.

Please note that the previous renewal permit classified CLARKS RUN as a WWF. There is another CLARKS RUN in State Watershed 20-B that is tributary to the BEAVER RIVER.

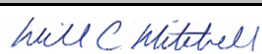
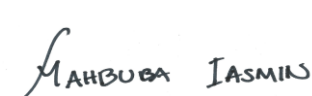
WQM No. 0407401, issued on December 17, 2007, authorized construction of a 500 GPD SRSTP consisting of a septic tank, an EcoFlo Peat-Based Biofilter, and UV disinfection.

The applicant does not use eDMR and current policy does not require eDMR to be used for SRSTPs.

The applicant has complied with Act 14 Notifications and no comments were received.

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

Approve	Deny	Signatures	Date
X		 William C. Mitchell, E.I.T. / Project Manager	April 22, 2022
X		 Mahbuba Iasmin, Ph.D., P.E. / Environmental Engineer Manager	April 29, 2022

Summary of Review

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, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0005</u>
Latitude	<u>40° 48' 45.00"</u>	Longitude	<u>-80° 23' 13.00"</u>
Quad Name	<u>New Galilee</u>	Quad Code	<u>1200</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary of CLARKS RUN (HQ-CWF)</u>	Stream Code	<u>33404</u>
NHD Com ID	<u>99676540</u>	RMI	<u>0.53</u>
Drainage Area	<u>0.37</u>	Yield (cfs/mi ²)	<u>0.00627</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.00232</u>	Q ₇₋₁₀ Basis	<u>USGS StreamStats</u>
Elevation (ft)	<u>1002</u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>20-B</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>Impaired</u>		
Cause(s) of Impairment	<u>SILTATION</u>		
Source(s) of Impairment	<u>AGRICULTURE, EROSION FROM DERELICT LAND (BARREN LAND)</u>		
TMDL Status	<u></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>No Downstream Public Water Supply Intake in PA</u>		
PWS Waters	<u></u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u></u>

Changes Since Last Permit Issuance: NONE

Compliance History

Operations Compliance Check Summary Report

Facility: Janice Polito SRSTP

NPDES Permit No.: PA0253499

Compliance Review Period: 4/17 – 4/22

Inspection Summary:

INSP ID	INSPECTED DATE	INSP TYPE	AGENCY	INSPECTION RESULT DESC
2752183	06/11/2018	Compliance Evaluation	PA Dept of Environmental Protection	No Violations Noted

Violation Summary:

No violations

Open Violations by Client ID:

No open violation for client ID #257594

Enforcement Summary:

No enforcements

DMR Violation Summary:

No DMR exceedances

Compliance Status:

Permittee is in compliance

Completed by: John Murphy

Completed date: 4/5/2022

Treatment Facility Summary				
Treatment Facility Name: Portage Area STP				
WQM Permit No.		Issuance Date		
0407401		12/17/2007		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	Septic Tank, Filtration	UV	0.0005
Hydraulic Capacity (MGD)				
0.0005	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
		Not Overloaded	Septic Tank	Hauled to Other WWTP

Changes since last permit issuance: None

Other Comments: The SRSTP was designed for a four bedroom home.

The SRSTP consists of the following units:

- A multi-compartment 1,500 gallon capacity septic tank
- An Ecoflo Peat-Based Biofilter
- An UV disinfection system

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>0.0005</u>
Latitude <u>40° 48' 45.00"</u>	Longitude <u>-80° 23' 13.00"</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 an UNT of CLARKS RUN, which is classified as a HQ-CWF.

The following 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 8 of this Fact Sheet, reflect the most stringent limitation amongst the above Technology-Based Effluent Limitations. Since annual sampling is applicable, a 5mg/L Ammonia-Nitrogen limitation will be imposed year-round.

Additional Considerations:

For SFTFs/SRSTPs with UV disinfection systems, it is not necessary to require UV intensity or transmittance monitoring in new and reissued permits.

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.

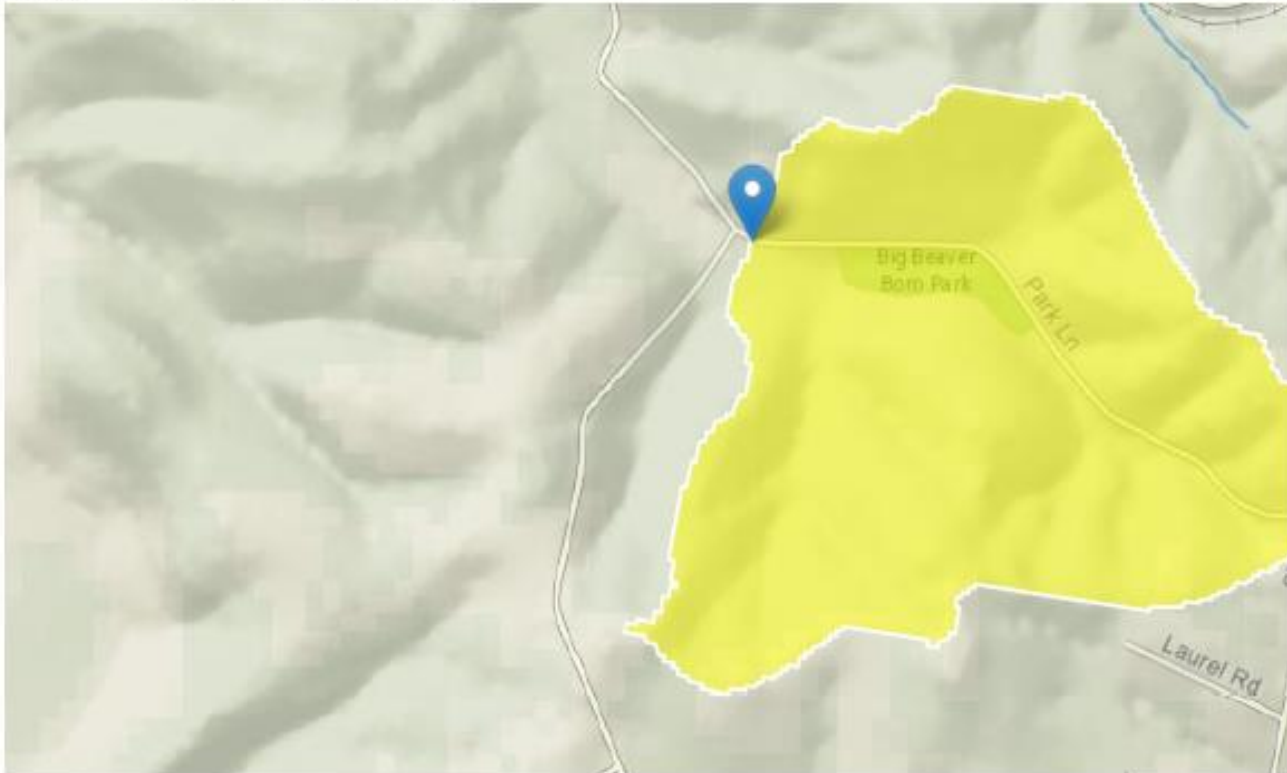
Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	0.0005 Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	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	XXX	1/year	Grab
Ammonia-Nitrogen	XXX	XXX	XXX	5.0	XXX	10.0	1/year	Grab

Compliance Sampling Location: 001

Other Comments: NONE

StreamStats Report

Region ID: PA
 Workspace ID: PA20220422174728310000
 Clicked Point (Latitude, Longitude): 40.81238, -80.38694
 Time: 2022-04-22 13:47:56 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.37	square miles
ELEV	Mean Basin Elevation	1123	feet

Low-Flow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.37	square miles	2.26	1400

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
ELEV	Mean Basin Elevation	1123	feet	1050	2580

Low-Flow Statistics Disclaimers [Low Flow Region 4]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

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

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.00856	ft ³ /s
30 Day 2 Year Low Flow	0.0172	ft ³ /s
7 Day 10 Year Low Flow	0.00232	ft ³ /s
30 Day 10 Year Low Flow	0.00533	ft ³ /s
90 Day 10 Year Low Flow	0.0113	ft ³ /s

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