

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0233439  
APS ID 1093005  
Authorization ID 1447630

**Applicant, Facility and Project Information**


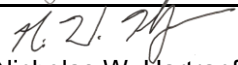
Applicant Name	<u>Kristina R. Kula-Wright</u>	Facility Name	<u>Kristina R. Kula-Wright SRSTP</u>
Applicant Address	<u>12866 Wallis Run Road</u> <u>Trout Run, PA 17771-8523</u>	Facility Address	<u>12866 Wallis Run Road</u> <u>Trout Run, PA 17771-8523</u>
Applicant Contact	<u>Kristina Kula-Wright</u>	Facility Contact	<u>Kristina Kula-Wright</u>
Applicant Phone	<u>(570) 772-7663</u>	Facility Phone	<u>(570) 772-7663</u>
Client ID	<u>378667</u>	Site ID	<u>865973</u>
SIC Code	<u>4952</u>	Municipality	<u>Plunketts Creek Township</u>
SIC Description	<u>Trans. &amp; Utilities - Sewerage Systems</u>	County	<u>Lycoming</u>
Date Application Received	<u>July 18, 2023</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>August 1, 2023</u>	WQM App. No.	<u>4123402</u>
Project Description	<u>Replace existing on-lot malfunctioning sewage system with new SRSTP with stream discharge.</u>		

**Summary of Review**

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.

This application is for a new individual NPDES permit for the discharge of treated sewage from a single residence that will replace a malfunctioning onlot system. The annual average design flow for this facility is 500 GPD (4-bedroom residence) and the proposed treatment system has a design hydraulic capacity of 500 GPD. An individual Single Residence permit is required due to the use of an alternative design that is not covered in the *Small Flow Treatment Facilities Design Manual* (Document 362-0300-002.) This system is not listed in the *Alternate System Guidance* (Document 362-0300-007), it is approved under the Onlot Alternate Technology Listings. This system is listed as a Premier Tech Aqua Ecoflo Coco Biofilter (Ecoflo EC7 Series) and classified under Alternate technology (A2017-0029-0001).

Approval of this facility under the Act 537 Official Sewage Facilities Plan of Plunketts Creek Township was provided by the Department in a letter dated 4/24/17. Act 14 notifications have been provided as required.

Approve	Deny	Signatures	Date
X		 Jonathan P. Peterman / Project Manager	September 7, 2023
X		 Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	September 7, 2023

**Discharge, Receiving Waters and Water Supply Information**

Outfall No.	001	Design Flow (MGD)	.0005
Latitude	41° 25' 15.67"	Longitude	-76° 48' 38.95"
Quad Name	Barbours	Quad Code	0731
Wastewater Description: Sewage Effluent			
Receiving Waters	King Run (EV (existing use))	Stream Code	19988
NHD Com ID	66910201	RMI	0.1100
Drainage Area	--	Yield (cfs/mi <sup>2</sup> )	--
Q <sub>7-10</sub> Flow (cfs)	--	Q <sub>7-10</sub> Basis	--
Elevation (ft)	--	Slope (ft/ft)	--
Watershed No.	10-B	Chapter 93 Class.	HQ-CWF, MF
Existing Use	EV(EXCEPTIONAL VALUE)	Existing Use Qualifier	RBP - Antidegradation
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	N/A		
Source(s) of Impairment	N/A		
TMDL Status	N/A	Name	N/A
Nearest Downstream Public Water Supply Intake	PA American Water White Deer		
	West Branch of Susquehanna		
PWS Waters	River	Flow at Intake (cfs)	682
PWS RMI	10.5	Distance from Outfall (mi)	46

Changes Since Last Permit Issuance: N/A  
 Other Comments: None

**Treatment Facility Summary**

**Treatment Facility Name:** Kristina R. Kula-Wright SRSTP

Waste Type	Degree of Treatment	Process Type	Disinfection	Design Flow (MGD)
Sewage	Tertiary	ECOFLO Coco Filter	Ultraviolet Light	0.0005
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0005	--	Not Overloaded	None.	Other WWTP.

**Proposed Treatment System Components for Outfall 001:**

- One (1) 800-gallon septic tank.
- One (1) effluent filter.
- One (1) Ecoflo EC7-500-P-P Coco filter.
- One (1) UV Disinfection System.
- One (1) Outfall.

Changes Since Last Permit Issuance: N/A.  
 Other Comments: None.

**Anti-Degradation Analysis**

Given that this facility is replacing a malfunctioning onlot system, which would be considered an existing source and this treatment method is designed to meet the ABACT treatment process performance expectations for wastewater discharges, it is expected that this discharge will not degrade the receiving stream.

**Chesapeake Bay Requirements**

Facilities that are designed based on a flow of less than 2,000 GPD (500 GPD design flow for this facility) are not a part of Pennsylvania's Chesapeake Bay Tributary Strategy. Accordingly, it is not practicable to require the permittee to perform nutrient monitoring.

**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 the abovementioned 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) and/or BPJ.

**Proposed Limits - Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date**

Discharge Parameter	Limitations						Monitoring	
	Mass (lb/day)		Concentration (mg/L)				Minimum Frequency	Sample Type
	Monthly Average	Daily Maximum	Minimum	Average Monthly	Average Weekly	Instantaneous Maximum		
Flow (MGD)	Report						1/ Year	Estimate
BOD <sub>5</sub>				10		20	1/ Year	Grab
TSS				10		20	1/ Year	Grab
UV				----		----	----	----
Fecal Coliforms	200 No./100 ml as a geometric mean						1/ Year	Grab

\*The proposed effluent limits for Outfall 001 were based on a design flow of 0.0005 MGD.

**Development of Effluent Limitations and Monitoring Frequencies**

BOD<sub>5</sub> (10 mg/L) and TSS (10mg/L) are technology-based limits stipulated in the *Technical Guidance for the Development and Specification of Effluent Limitations* (362-0400-001). The fecal coliform limits correspond with 25 PA Code § 92a.47 (a)(4). pH monitoring is not required for SRSTPs. The design engineer, Jeffrey E. Brooks, P.E., has indicated that the final design will incorporate UV disinfection. No monitoring is required for UV disinfection systems at SRSTPs.

All of the monitoring frequencies sample types correspond with the policies and procedures stipulated in the SOP in lieu of the *Technical Guidance for the Development and Specification of Effluent Limitations* (362-0400-001).

**Compliance History**

**WMS Query Summary** - A WMS Query was run at *Reports - Violations & Enforcements – Open Violations for Client Report* to determine whether there are any unresolved violations associated with the client that will affect issuance of the permit (per CSL Section 609). This query revealed that there were no unresolved violations.