

Southcentral Regional Office CLEAN WATER PROGRAM

Application Type
Wastewater Type
Sewage

SRSTP

Facility Type

NPDES/WQM PERMITS FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No.

PA0293946 & WQM 2828401

APS ID

1079640 1424672 &

		Authorization ID	1424674 WQM
Applicant, Facility and	<u>d Project Informat</u>	ion	
	Facility Name	Anthony Ott Properties	

Applicant Name	Anthony L Ott	Facility Name	Anthony Ott Properties
Applicant Address	280 Feaster Road	Facility Address	280 Feaster Road
	Chambersburg, PA 17202-9262	_	Chambersburg, PA 17202-9262
Applicant Contact	Anthony Ott	Facility Contact	Anthony Ott
Applicant Phone	(717) 261-6658	Facility Phone	(717) 261-6658
Client ID	374849	Site ID	859476
SIC Code	8811	Municipality	Guilford Township
SIC Description	Services - Private Households	County	Franklin
Date Application Rec	eived January 24, 2023	WQM Required	
Date Application Acc	epted January 26, 2023	WQM App. No.	2828401

Summary of Review

This fact sheet supports the issuance of a new NPDES permit for discharge of treated sewage from the Single Residence Sewage Treatment Plant (SRSTP) located in Guilford Township, Franklin County. The annual average design flow is 400 gallons per day. The discharge will be to UNT 60142 to Conococheague Creek which is classified as Warm Water & Migratory Fishes (WWF & MF).

The WQM permit for the construction of the treatment system with permit No. WQM 2828401 is concurrently under review. DEP Planning for the project was approved under Code No. A3-28908-587-3s.

DEP has prepared this report for the applications for both NPDES and WQM permits.

Based on the review outlined in this report, it is recommended that the NPDES permit be drafted and publish in the Pennsylvania Bulletin for public comments for 30 days.

Approve	Deny	Signatures	Date		
Х		Hilaryle Hilary H. Le / Environmental Engineering Specialist	March 17, 2023		
Х		Maria D. Bebenek for Daniel W. Martin, P.E. / Environmental Engineer Manager	April 13, 2023		

Outfall No. 001		Design Flow (MGD)	0.0004	
	1' 22.78"	Longitude	-77º 42' 58.93"	
	eencastle	Quad Code		
Wastewater Descrip				
	Harris III II II			
Receiving Waters	Unnamed Tributary to Conococheague Creek (WWF, MF)	Stream Code	60142	
NHD Com ID	49479438	RMI	0.4900	
Drainage Area	3.49 mi. ²	Yield (cfs/mi ²)	1.48	
Q ₇₋₁₀ Flow (cfs)	5.18	Q ₇₋₁₀ Basis	USGS StreamStats	
Elevation (ft)	546.57	Slope (ft/ft)		
Watershed No.	13-C	Chapter 93 Class.	WWF, MF	
Existing Use		Existing Use Qualifier		
Exceptions to Use		Exceptions to Criteria		
Assessment Status	Impaired			
Cause(s) of Impairn Source(s) of Impairn	HABITAT MODIFICATION - O	THER THAN HYDROMOD	IFICATION, URBAN	
TMDL Status		Name		
TWDL Status		Name		
	· · · · · · · · · · · · · · · · · · ·	ty of Hagerstown, MD		
	Potomac River	Flow at Intake (cfs)		
PWS RMI		Distance from Outfall (mi)		

Changes Since Last Permit Issuance: new

Drainage Area

The discharge is to UNT 60142 to Conococheague Creek at RMI 0.49 miles. A drainage area upstream of the discharge is estimated to be 3.49 mi.², according to USGS StreamStats available at https://streamstats.usgs.gov/ss/. USGS StreamStats also produced a Q7-10 flow of 5.18 cfs at the point of proposed discharge.

UNT to Conococheague Creek

Under 25 Pa Code §93.9z, UNT to Conococheague Creek is designated as Warm-Water and Migratory Fishes (WWF & MF) and attaining its uses.

Based on DEP's 2022 integrated water quality report, assessment ID 8640, is impaired for siltation (organic enrichment) as a result of agriculture activities (urban runoff/storm sever) date listed 1998.

This discharge is not into a watershed that has proposed or final TMDL. No Exceptional Value Waters are impacted by this discharge.

Conococheague Creek does not support a Class A Wild Trout fishery. Therefore, no Class A Wild Trout fishery is impacted by this discharge.

Public Water Supply Intake

The neared downstream public water supply intake is on the Potomac River near Hagerstown, MD. Given the distance and nature of the discharge, the discharge is not expected to impact the water supply.

Treatment Facility Summary

The facility is proposed to repair a failing system for an existing three-bedroom single family residence (400 GPD) located at 280 Feast Road, Chambersburg, PA 17202. The facility will be owned and maintained by Anthony Ott. The proposed treatment process, according to the application, is as follows:

One (1) 1250-gallon dual compartment concrete septic tank (or equivalent) → Zabel A100 filter/Polylok PL-122 filter → Premier Tech EC7-500-P-P Coco filter → DiUV disinfection unit → Outfall.

The proposed septic tank will have enough capacity to handle the proposed design flow. An effluent filter will be provided at the end of the septic tank to reduce settleable and floatable solids in the effluent. "A" Biotube effluent filters will be provided, which has been demonstrated to produce effluent that does not exceed 10 mg/L BOD $_5$ and 10 mg/L TSS. The proposed UV disinfection system will be able to provide an effluent fecal coliform concentration less than or equal to 200 No./100 mL.

The primary treatment tank sludge levels will be monitored yearly and pumped out no longer than 3-year intervals. The outlet of the tank will have an effluent filter, preventing solids from leaving the tank. The surface filter will be inspected annually. The UV unit will be accessible from the ground surface, allowing the UV bulb to be replaced or cleaned. The UV unit has an alarm-light system to alert for a treatment malfunction, and one or more spare bulbs will be kept on site for emergency replacement.

Compliance History

On November 8, 2022, DEP approved the Act 537 planning as a revision to the Act 537 official sewage facilities plan of Lurgan Township (DEP Code No. A3-28911-127-3s).

This is a new facility; therefore, there are no effluent sample results / inspection reports associated with this facility. The Department's database indicates that there is currently no open violation associated with the facility or the applicant.

Development of Effluent Limitations and Monitoring Requirements

The effluent limitations and monitoring requirements are derived from DEP's Standard Operating Procedure (SOP) for New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications (SOP No. BPNPSM-PMT-003, revised May 17, 2019). Since the facility will utilize ultraviolet (UV) disinfection, monitoring requirements for total residual chlorine are not applicable.

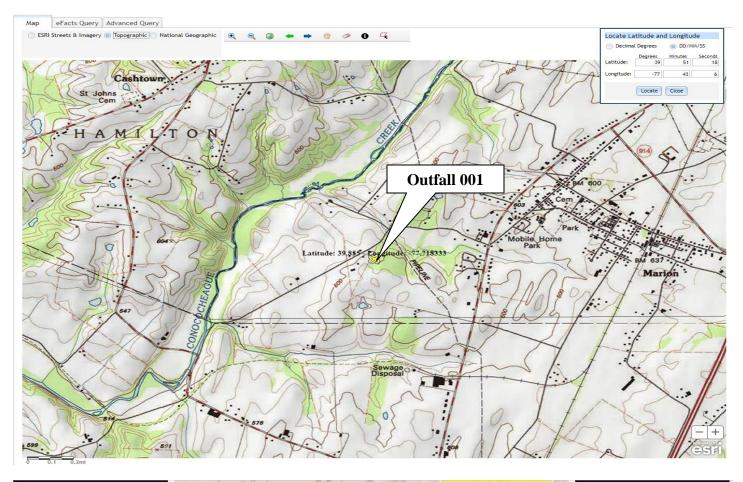
According to the SOP referenced above, water quality monitoring using Toxic Management Spreadsheet and/or WQM are not required for SRSTPs. The permittee will be required to submit a completed Annual Maintenance Report (AMR) as part of the permit requirements. No DMR is necessary for any facilities that are required to report effluent monitoring results on AMRs annually.

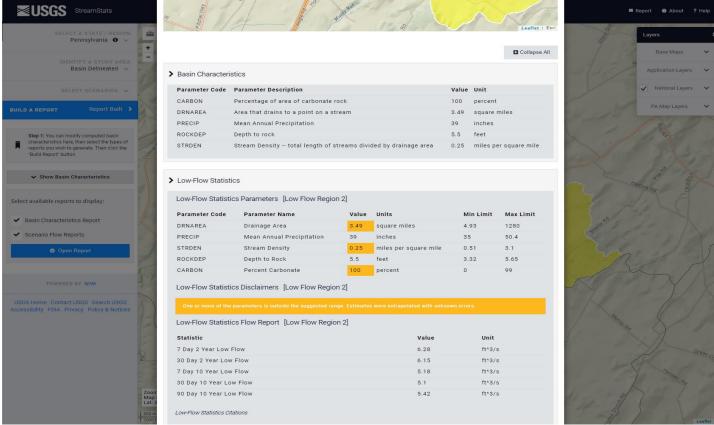
The draft permit will include the following Part C conditions:

- a. Small Flow Treatment Facility Maintenance, including measurement of the depth of septage and scum, 3-year septic tank pumping requirement, reporting requirement of a completed Annual Maintenance Form.
- b. Stormwater Prohibition
- c. Property Rights
- d. Proper Disposal of Solids

NPDES Permit Fact Sheet Anthony Ott Properties

This is topographic.





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.

	Effluent Limitations					Monitoring Requirements		
Parameter	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum ⁽²⁾	Required
Faranietei	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
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

Compliance Sampling Location:

Other Comments: