

Southcentral Regional Office CLEAN WATER PROGRAM

Application Type New Wastewater Type Sewage

SRSTP

Facility Type

NPDES/WQM PERMITS FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No.

PA0267244 & WQM 0120401

APS ID

1021209 1322973 & 1322974 WQM

Authorization ID

Applicant Name	Floye	l Paul Walters	Facility Name	Paul Walters-Single Family 660 Shrivers Corner Road	
Applicant Address	140 V	/illage Square Drive	Facility Address		
	Marie	tta, PA 17547	<u></u>	Gettysburg, PA 17325-8133	
Applicant Contact	Floyd	Walters	Facility Contact	Floyd Walters	
Applicant Phone	_(717) 426-4547		Facility Phone	(717) 426-4547	
Client ID	357825		Site ID	844397	
SIC Code	8811		<u>Municipality</u>	Straban Township	
SIC Description	Services - Private Households		County	Adams	
Date Application Received		August 5, 2020	WQM Required		
Date Application Accepted		September 15, 2020	WQM App. No.	0120401	

Summary of Review

This fact sheet supports the issuance of new NPDES and WQM permits for discharge of treated sewage from the single residence sewage treatment plant (SRSTP) located in Straban Township, Adams County. The annual average design flow is 400 gallons per day. The discharge will be to Unnamed Tributary to Rock Creek which is classified as Warm Water & Migratory Fishes (WWF & MF).

The WQM permit for the construction of the treatment system with permit No. 0120401 is concurrently under review. DEP Planning for the project was approved under Code No. A3-01929-330-3s.

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 a Bulletin Notice will be published in the Pennsylvania Bulletin for public comments for 30 days.

Approve	Deny	Signatures	Date
Х		Hilaryle Hilary H. Le / Environmental Engineering Specialist	March 26, 2021
		Daniel W. Martin, P.E. / Environmental Engineer Manager	

Discharge, Receiving	g Waters and Water Supply Inform	nation			
	53' 59.50" glerville ption: Sewage Effluent	Design Flow (MGD) Longitude Quad Code	.0004 -77º 12' 25.73"		
Receiving Waters NHD Com ID Drainage Area Q ₇₋₁₀ Flow (cfs) Elevation (ft) Watershed No. Existing Use Exceptions to Use Assessment Status		Stream Code RMI Yield (cfs/mi²) Q ₇₋₁₀ Basis Slope (ft/ft) Chapter 93 Class. Existing Use Qualifier Exceptions to Criteria	59169 3.24 miles 0.027 USGS StreamStats WWF, MF		
Cause(s) of Impaire Source(s) of Impaire					
TMDL Status		Name			
Nearest Downstream Public Water Supply Intake PWS Waters		City of Frederick, MD Flow at Intake (cfs)			
PWS RMI	unknown	Distance from Outfall (mi)	Approximately 18 miles to PA-MD Border		

Changes Since Last Permit Issuance: none because the application type is new.

Drainage Area/Stream Flows

The discharge is to Unnamed Tributary 59169 to Rock Creek at RMI 3.24 mile. A drainage area upstream of the discharge is estimated to be 1.47 mi.², according to USGS StreamStats available at https://streamstats.usgs.gov/ss/. USGS StreamStats also produced a Q7-10 flow of 0.04 cfs at the point of proposed discharge.

Unnamed Tributary to Rock Creek

Under 25 Pa Code §93.9z, Unnamed Tributary to Rock Creek is designated as Warm-Water & Migratory Fishes (WWF & MF). Rock Creek does not support a Class A Wild Trout fishery. Therefore, no Class A Wild Trout fishery is impacted by this discharge.

Based on integrated report 2018, Unnamed Tributary to Rock Creek, assessment ID 12952, is not impaired.

Public Water Supply Intake

According to DEP's eMapPA available at http://www.depgis.state.pa.us/emappa/, the nearest downstream public water supply intake is City of Frederick, MD located on Monocacy River, approximately 18 miles from the point of proposed discharge to PA-MD boarder. Given the nature and distance, the proposed discharge is not expected to impact the water supply.

Treatment Facility Summary

The facility is proposed to serve the three-bedroom single family residence (400 GPD) located at 660 Shrivers Corner Road, Gettysburg, PA 17325. The facilities will be owned and maintained by Floyd P. Walters. The proposed treatment process, according to the application, is as follows:

1000-gallon compartment concrete septic tank (or equivalent) → Zabel A300 effluent filter (or equal) → ECOFLO Rotomoule EC7-500-P-P-PACK (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 Premier Tech ECOFLO Rotomoule EC7-500-P-P PACK (filter) 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 April 6, 2017, DEP approved the Act 537 planning as a revision to the Act 537 official sewage facilities plan of Reading Township (DEP Code No. C3-01929-330-3s).

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 PentoxSD 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

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.

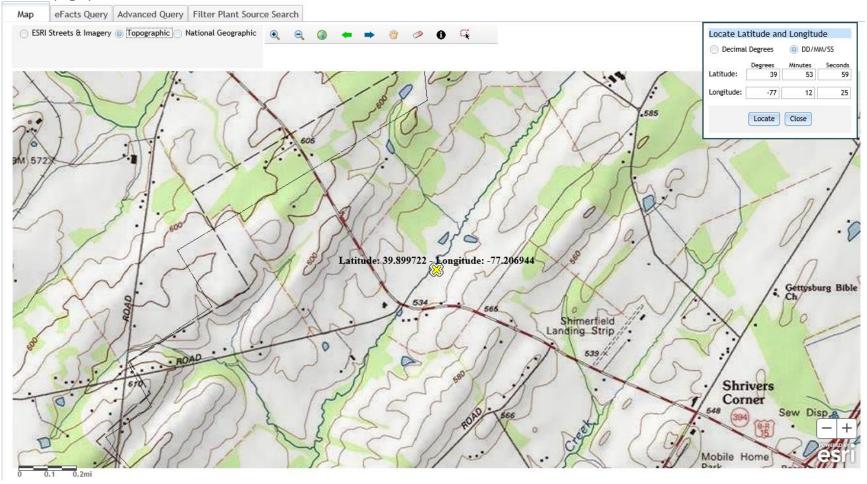
	Effluent Limitations					Monitoring Requirements		
Parameter	Mass Units (lbs/day) (1)		Concentrations (mg/L)			Minimum (2)	Required	
Farameter	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		Sample Type
Flow (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
BOD ₅	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:

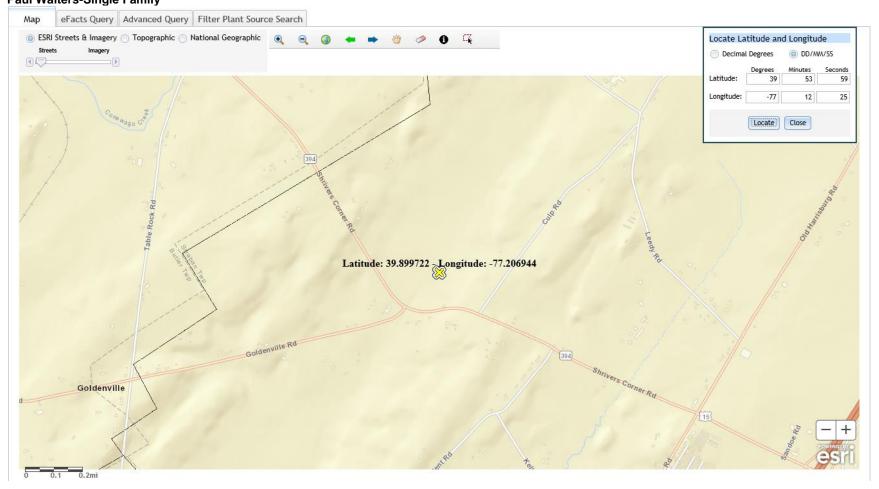
Other Comments:

NPDES Permit Fact Sheet Paul Walters-Single Family

This is topographic.



NPDES Permit No. PA0267244



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