

Application Type Renewal
Wastewater Type Sewage
Facility Type SFTF

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

Application No. PA0085138
APS ID 10669
Authorization ID 1329400

Applicant, Facility and Project Information

Applicant Name	<u>Five Forks Brethren In Christ Church</u>	Facility Name	<u>Five Forks Brethren In Christ Church</u>
Applicant Address	<u>9244 Five Forks Road</u> <u>Waynesboro, PA 17268-9612</u>	Facility Address	<u>9244 Five Forks Road</u> <u>Waynesboro, PA 17268-9612</u>
Applicant Contact	<u>Ray Kipe</u>	Facility Contact	<u>Ray Kipe</u>
Applicant Phone	<u>(717) 762-2991</u>	Facility Phone	<u>(717) 762-2991</u>
Client ID	<u>44501</u>	Site ID	<u>449921</u>
SIC Code	<u>8661</u>	Municipality	<u>Quincy Township</u>
SIC Description	<u>Services - Religious Organizations</u>	County	<u>Franklin</u>
Date Application Received	<u>October 5, 2020</u>	WQM Required	<u>Issued</u>
Date Application Accepted	<u>August 30, 2021</u>	WQM App. No.	<u>2892403</u>
Project Description	<u>NPDES Renewal.</u>		

Summary of Review

Water Quality Modeling:

Water Quality Modeling is not required for facilities less than or equal to 2000 GPD (SFTFs/SRSTPs) according to DEP's Standard Operating Procedure (SOP) number BPNPSM-PMT-003 revised on January 13, 2015.

Ammonia (NH₃-N):

The policy of DEP's SOP "Implementation Guidance of Section 93.7 Ammonia Criteria" (SOP # 391-2000-013, 1997) is "This guidance is designed to implement DEP's water quality criteria regulation contained in Section 93.7. BWC's Water Quality Analysis Model (WQAM Model version 6.3) is the focal point for implementing the regulation." Since water quality modeling is not performed for this SFTF, ammonia nitrogen limit is not applicable to this facility.

Carbonaceous Biochemical Oxygen Demand (CBOD₅):

Since water quality modeling is not conducted for this facility, Technology Based Effluent Limits or Best Professional Judgment will govern. DEP's SOP # BPNPSM-PMT-003 (revised on May 17, 2019, version 1.8) mentioned "In addition, application managers do not need to impose the CBOD₅ and TSS limitations below for existing SFTFs that were permitted prior to publication of the Small Flow Treatment Facilities Manual (362-0300-002) when such facilities are not capable of meeting tertiary treatment limits and have no documented compliance concerns." Since this facility was permitted and built in 1993, the new effluent limitation for CBOD₅ doesn't apply for this facility. Therefore, this renewal will carry over the existing limit of 25 mg/l as monthly average and 50 mg/l as instantaneous maximum limit

Total Suspended Solids (TSS):

There is no water quality criterion for TSS. The existing limits of 30 mg/L average monthly and 60 mg/L instantaneous maximum will remain in the permit based on the minimum level of effluent quality attainable by secondary treatment, 25 Pa. Code § 92a.47 and 40CFR 133.102(b.) and for the above mentioned reason for CBOD₅. Recent DMRs and inspection reports show that the facility has been consistently achieving concentrations below these limits.

Approve	Deny	Signatures	Date
X		<i>Jared Lescavage</i> Jared Lescavage / Project Manager	August 30, 2021
X		<i>Scott M. Arwood</i> Scott M. Arwood, P.E. / Environmental Engineer Manager	August 31, 2021

Summary of Review

Dissolved Oxygen (DO):

A minimum D.O. of 5.0 mg/L is required per 25 Pa. Code § 93.7. This is consistent with the previous permit renewal and current Department criteria.

pH:

The effluent discharge pH should remain above 6 and below 9 standard units according to 25 Pa. Code § 95.2(1) which is consistent with previous permit renewal.

Fecal Coliform:

The recent coliform guidance in 25 Pa. code § 92a.47.(a)(4) requires a summer technology limit of 200/100 ml as a geometric mean and an instantaneous maximum not greater than 1,000/100ml and § 92a.47.(a)(5) requires a winter limit of 2,000/100ml as a geometric mean and an instantaneous maximum not greater than 10,000/100ml. Therefore, instantaneous maximum limits for summer and winter seasons will be introduced in this renewal to be consistent with regulations. Inspection reports are showing that the permittee is capable of meeting this requirement.

Total Residual Chlorine (TRC):

The attached TRC_CALC utilizes the equations and calculations as presented in the Department's 2003 Implementation Guidance for Total Residual Chlorine (TRC) (Document ID#391-2000-015) for developing chlorine limitations.

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.

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>.002</u>
Latitude	<u>39° 47' 58.74"</u>	Longitude	<u>-77° 36' 30.53"</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to West Branch Antietam Creek (CWF, MF)</u>	Stream Code	<u>59267</u>
NHD Com ID	<u>49483070</u>	RMI	<u>2.81</u>
Drainage Area	<u>0.21</u>	Yield (cfs/mi ²)	<u></u>
Q ₇₋₁₀ Flow (cfs)	<u>.103</u>	Q ₇₋₁₀ Basis	<u>StreamStats</u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>13-C</u>	Chapter 93 Class.	<u>CWF, MF</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>NUTRIENTS, SILTATION</u>		
Source(s) of Impairment	<u>AGRICULTURE, AGRICULTURE</u>		
TMDL Status	<u>Final</u>	Name	<u>West Branch Antietam Creek TMDL</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>Hagerstown, MD</u>		
PWS Waters	<u>Potomac River</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u>20</u>

Changes Since Last Permit Issuance: None

Other Comments: N/A

Compliance History	
Summary of DMRs:	No issues regarding submitted DMRs. All limits have been monitored correctly and not exceeded.
Summary of Inspections:	No issues of non-compliance.

Other Comments: **N/A**

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: _____ through _____.

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	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0 Daily Max	XXX	1/day	Grab
DO	XXX	XXX	5.0 Avg Mo	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
BOD5	XXX	XXX	XXX	25	XXX	50	1/month	Grab
TSS	XXX	XXX	XXX	30	XXX	60	1/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/month	Grab

Compliance Sampling Location: Outfall 001

Other Comments: N/A