

Application Type Renewal
Wastewater Type Sewage
Facility Type SFTF

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

Application No. PA0263621
APS ID 986851
Authorization ID 1262336

Applicant, Facility and Project Information

Applicant Name	<u>Jay K. Thrower</u>	Facility Name	<u>Field House Restaurant SFTF</u>
Applicant Address	<u>911 North Pike Road</u> <u>Cabot, PA 16023-2029</u>	Facility Address	<u>911 North Pike Road</u> <u>Cabot, PA 16023-2029</u>
Applicant Contact	<u>Jay Thrower</u>	Facility Contact	<u></u>
Applicant Phone	<u>(724) 352-9603</u>	Facility Phone	<u></u>
Client ID	<u>275563</u>	Site ID	<u>695499</u>
SIC Code	<u>5812</u>	Municipality	<u>Jefferson Township</u>
SIC Description	<u>Eating Places</u>	County	<u>Butler</u>
Date Application Received	<u>February 4, 2019</u>	WQM Required	<u>Yes (See discussion below)</u>
Date Application Accepted	<u>February 27, 2019</u>	WQM App. No.	<u></u>
Project Description	<u>Renewal of a NPDES Permit for an existing discharge from a Small Flow Treatment Facility (SFTF).</u>		

Summary of Review

This SFTF serves a restaurant/banquet hall. No changes to discharge quantity or quality are proposed as part of this permit renewal.

A UV disinfection unit was installed after the chlorine contact tank and the discharge after the initial plant installation and it is/was not permitted under the WQM Permit (No. 1009402). The permittee will be instructed in the draft letter to apply for a permit amendment to permit the operation of this additional treatment unit or remove it.

There are currently no open violations listed in EFACTS for this permittee (11/06/2019).

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.

Approve	Deny	Signatures	Date
X		Adam J. Pesek, E.I.T. / Environmental Engineering Specialist	
X		Justin C. Dickey, P.E. / Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0013</u>
Latitude	<u>40° 47' 34.9"</u>	Longitude	<u>-79° 48' 44.9"</u>
Quad Name	<u>Saxonburg</u>	Quad Code	<u>1207</u>
Wastewater Description: <u>Treated domestic sewage and kitchen wash waters</u>			
Receiving Waters	<u>Unnamed Tributary to Thorn Creek</u>	Stream Code	<u>35233</u>
NHD Com ID	<u>126221636</u>	RMI	<u>1.85</u>
Drainage Area	<u>0.89</u>	Yield (cfs/mi ²)	<u>0.027</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.02403</u>	Q ₇₋₁₀ Basis	<u>USGS Gage 03049000</u>
Elevation (ft)	<u>1190</u>	Slope (ft/ft)	<u>0.00757</u>
Watershed No.	<u>20-C</u>	Chapter 93 Class.	<u>Cold Water Fishes</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>CAUSE UNKNOWN, NUTRIENTS</u>		
Source(s) of Impairment	<u>AGRICULTURE, HABITAT MODIFICATION - OTHER THAN HYDROMODIFICATION</u>		
TMDL Status	<u></u>	Name	<u></u>
Background/Ambient Data		Data Source	
pH (SU)	<u>7.14</u>	<u>WQN 929 Ecoregion ambient data</u>	
Temperature (°C)	<u>20</u>	<u>Default (CWF)</u>	
Hardness (mg/L)	<u></u>	<u></u>	
Other: NH ₃ -N	<u>0.03</u>	<u>WQN 929 Ecoregion ambient data</u>	
Nearest Downstream Public Water Supply Intake	<u>PA American Water Company – Ellwood District</u>		
PWS Waters	<u>Connoquenessing Creek</u>	Flow at Intake (cfs)	<u>67</u>
PWS RMI	<u>0.2</u>	Distance from Outfall (mi)	<u>42.8</u>

Changes Since Last Permit Issuance: New PWS Intake located closer to the discharge than the Beaver Falls MA intake.

Other Comments:

Compliance History	
Summary of DMRs:	<p>AMRs were reviewed that were submitted between 2014 and 2018. Only one sample is being tested for BOD₅, TSS, and Fecal Coliform each calendar year instead of the two (2) tests required by the current NPDES Permit. The BOD₅, TSS, and Fecal Coliform test results indicate exceedances of the permit limits most of the time.</p> <p>AMRs documents extensive maintenance being done on the system such as pumping out tanks, replacing peat filter media, adding chlorine tablets, etc.</p>
Summary of Inspections:	<p>SFTF Compliance Inspection Report done on 6/19/2015. Notes that AMRs had been submitted, but not DMRs.</p>

Other Comments: It was discovered during a review of the AMRs that a UV disinfection Unit was installed sometime between wintertime 2013 and August 2014 after the chlorination disinfection equipment to aid in providing adequate disinfection and bring fecal coliform effluent concentrations into acceptable range. The UV disinfection treatment equipment was never permitted, so it will need to be through a WQM Permit amendment or removed.

The township SEO, who does regular inspections of the system, was contacted on 11/05/2019 to discuss possible reasons for the limit exceedances, even though the system appeared to have regular extensive maintenance done by the permittee and the service provider. According to the SEO, he attributes the exceedances to, what he believes, is an undersized chlorine contact tank, and a UV bulb that gets dirty more frequently than those used for domestic applications.

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	Semi-Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
TRC	XXX	XXX	XXX	0.5 Avg Mo	XXX	1.2	1/month	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	2/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	2/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	2/year	Grab

Compliance Sampling Location: Outfall 001 (after disinfection).

Other Comments: Monitoring frequencies remained the same as the previous permit except for flow. The Department’s SOP entitled “New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications” suggests sampling frequencies of “1/month” for all parameters with the exception that facilities that have been well-maintained can retain existing frequencies. Through reviews of AMR Reports and discussions with the township SEO, it is evident that the permittee goes “above and beyond” in regular maintenance of the system (such as frequent pumping out of tanks, replacing peat filter media, checking chlorine tablets and cleaning UV bulb) and the Department does not recommend more frequent sampling.

Limits are derived from the Department’s Small Flow Treatment Facilities Manual,” with the exception of TRC which have a technology-based limit based on Chapter 92a.48(b)(2) (average monthly limit) and a Water Quality-Based Effluent Limit (WQBEL) (IMAX limit).