

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No.PA0110116APS ID1007482Authorization ID1298467

Applicant, Facility and Project Information

Applicant Name	Feger,	Reynold	Facility Name	Reynold Feger Building
Applicant Address	764 Pot	tsville Street	Facility Address	4350 State Route 147
	Herndo	n, PA 17830-6990	_	Herndon, PA 17830-7439
Applicant Contact	Reynold	d Feger	Facility Contact	Reynold Feger
Applicant Phone	717-579	9-2072	Facility Phone	717-579-2072
Client ID	45043		Site ID	255704
SIC Code	4952		Municipality	Lower Mahanoy Township
SIC Description	Trans. 8	& Utilities - Sewerage Systems	County	Northumberland
Date Application Recei	ved	December 5, 2019	WQM Required	No
Date Application Accepted		December 12, 2019	WQM App. No.	
Project Description		Renewal of a NPDES permit.		

Summary of Review

The Reynold Feger Building currently operates as an insurance agency. The building was previously a restaurant served by this permitted SFTF. Discharge has not occurred since 2015.

A map of the discharge location is attached.

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
х		Keith C. Allison Keith C. Allison / Project Manager	October 19, 2020
X		Nicholas W. Hartranft Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	October 22, 2020

NPDES Permit Fact Sheet Feger Building STP

Discharge, Receiving Waters and Water Supply Info	rmation	
Outfall No. 001	Design Flow (MGD)	0.0019
Latitude 40° 41' 15.69"	Longitude	-76º 49' 48.66"
Quad Name Pillow, PA	Quad Code	1331
Wastewater Description: Sewage Effluent		
Receiving Waters _ Fidlers Run (WWF, MF)	Stream Code	17540
NHD Com ID 54969937	RMI	1.58
Drainage Area 5.62 mi ²	Yield (cfs/mi ²)	0.039
Q ₇₋₁₀ Flow (cfs) 0.22	Q ₇₋₁₀ Basis	USGS StreamStats
Elevation (ft) 480	Slope (ft/ft)	Undetermined
		Warm Water Fishes,
Watershed No. 06B	Chapter 93 Class.	Migratory Fishes
Existing Use N/A	Existing Use Qualifier	N/A
Exceptions to Use None	Exceptions to Criteria	None
Assessment Status Attaining Use(s)		
Nearest Downstream Public Water Supply Intake	Suez Water near Dauphin, PA	ι.
PWS Waters Susquehanna River	Flow at Intake (cfs)	17,000,000
PWS RMI 61.5	Distance from Outfall (mi)	35.2

Changes Since Last Permit Issuance: The stream and discharge information above were determined for the previous review and remain adequate.

Other Comments: No discharge has occurred from the facility since 2015. The wastewater is currently stored in the 2,500-gallon sludge holding tank for pumping.

No downstream water supply is expected to be affected by the discharge with the limitations and monitoring proposed.

Compliance History						
Summary of DMRs:	No discharge has occurred over the past permit term. DMRs are submitted.					
Summary of Inspections:	The facility was inspected twice by the Department over the past permit term, most recently on November 9, 2018. Neither of the inspections have identified any violations although the 2018 inspection recommended installing a high-level alarm on the holding tank.					

Treatment	Facility	Summary	

WQM Permit No.	Issuance Date		Permit Covered:	
4994402	Original – 8/25/94	0.002	26 MGD Cromaglass plant	
4994402 A-1	Amendment - 3/16/10	Rerate of plan	t from 0.0026 MGD to 0.001	9 MGD
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Activated Sludge	Hypochlorite	0.0019
ydraulic Capacity	Organic Capacity			Biosolids
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposa
(

Changes Since Last Permit Issuance: None

Other Comments: The treatment as approved under WQM permit No 4994402 Amendment No. 1 consists of screening basket, equalization tank with grinder pumps, six aerated Cromaglass units, erosion chlorinators and three chlorine contact tanks.

Existing 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 throug	h Permit Expiration Date.

	Effluent Limitations						Monitoring Requirements	
Parameter	Mass Units (Ibs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾	Required
Farameter	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	ххх	ХХХ	XXX	xxx	ххх	1/month	Estimate
_pH (S.U.)	ххх	ххх	6.0	XXX	XXX	9.0	1/week	Grab
TRC	ххх	ххх	ххх	1.0	xxx	2.6	1/week	Grab
CBOD5	ххх	ххх	ХХХ	25.0	xxx	50.0	1/month	Grab
TSS	ХХХ	ххх	ХХХ	30.0	XXX	60.0	1/month	Grab
Fecal Coliform (No./100 ml)	ххх	ххх	ххх	200 Geo Mean	XXX	1000	1/month	Grab

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: F	Permit Effective Date throu	ah Permit Expiration Date.
<u> </u>		

	Effluent Limitations						Monitoring Requirements	
Parameter	Mass Units (Ibs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾	Required
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	xxx	ххх	xxx	xxx	xxx	1/month	Estimate
TRC	xxx	ххх	ХХХ	1.0	XXX	2.6	1/month	Grab
CBOD5	ххх	ххх	ххх	25.0	XXX	50.0	1/month	Grab
TSS	ХХХ	ХХХ	XXX	30.0	XXX	60.0	1/month	Grab
Fecal Coliform (No./100 ml)	ххх	XXX	ХХХ	200 Geo Mean	XXX	1000	1/month	Grab

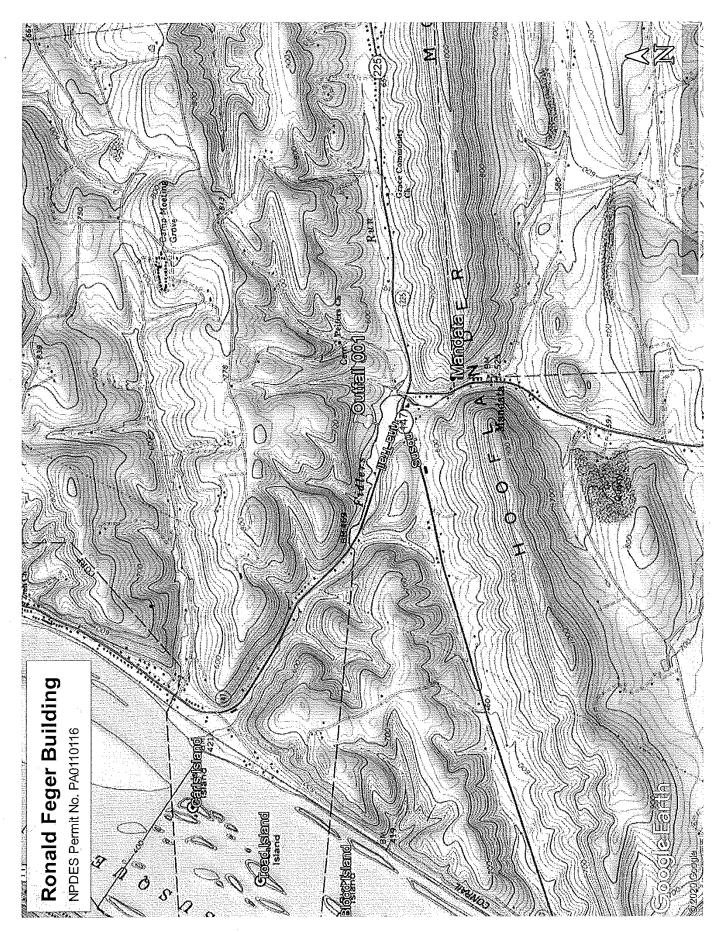
Compliance Sampling Location: Outfall 001

Other Comments: The above limitations and monitoring are unchanged from the exiting permit except for the removal of pH monitoring and reducing the monitoring for TRC from weekly to monthly consistent with the Department's current typical monitoring requirements for Small Flow Treatment Facilities. In addition, the CBOD5 and TSS Average Monthly and IMAX limitation now include an additional decimal point to satisfy the current requirements of WMS/ICIS.

These limitations are not consistent with current SFTF requirements due to the facility not being designed for consistency with the SFTF manual because it was not originally a SFTF and it predates the current SFTF manual. Attached TRC modeling shows that the existing tech-based limit of 1.0 mg/L for tablet chlorinators is adequate to protect the receiving stream.

Attachments:

- A. Discharge Location Map
- B. TRC Model



TRC_CALC.xls

TRC EVALU	ATION							
Input appropria	ite values in .	A3:A9 and D3:D9	•		···. ·			
	= Q stream (0.5	= CV Daily				
0.0019	= Q discharg	je (MGD)	0.5	= CV Hourly				
- 30	= no. sample	38	1	= AFC_Partial I	lix Factor			
0.3	= Chlorine D	emand of Stream	1	= CFC_Partial !	Mix Factor			
0	= Chlorine D	emand of Discharge	15	= AFC_Criteria	Compliance Time (min)			
1	= BAT/BPJ V	alue	720	= CFC_Criteria	Compliance Time (min)			
0	= % Factor e	of Safety (FOS)		=Decay Coeffic	ient (K)			
Source	Reference	AFC Calculations		Reference	CFC Calculations			
TRC	1.3.2.iii	WLA afc =	23.895	1.3.2.iii	WLA cfc = 23.289			
PENTOXSD TRG	5.1a	LTAMULT afc =	0.373	5.1c	LTAMULT cfc = 0.581			
PENTOXSD TRG	5.1b	LTA_afc=	8.904	5.1d	LTA_cfc = 13.539			
Source		Effluer	nt Limit Calcu					
PENTOXSD TRG	5.1f		AML MULT =					
PENTOXSD TRG	5.1g		LIMIT (mg/l) =		BAT/BPJ			
		INSTMAX	LIMIT (mg/l) =	3.270				
WLA afc	(.019/e(-k*Al	FC_tc)) + [(AFC_Yc*Qs*.019	/Qd*e(-k*AFC	:_tc))				
		C_Yc*Qs*Xs/Qd)]*(1-FOS/10	•					
TAMULT afc	EXP((0.5*LN)	(cvh^2+1))-2.326*LN(cvh^2+	1)^0.5)					
LTA_afc	wla_afc*LTA	MULT_afc						
WLA_cfc	• •	FC_tc) + [(CFC_Yc*Qs*.011/	•	_tc))				
	+ Xd + (CFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)							
	EXP((0.5*LN(cvd^2/no_samples+1))-2.326*LN(cvd^2/no_samples+1)^0.5)							
LTA_cfc	wla_cfc*LTA	WULI_CTC						
AML MULT	EXP/2 326*1	N((cvd^2/no_samples+1)^0.	5)-0 5*1 N(ovd	^2/no samplee∔	1))			
AVG MON LIMIT		J,MIN(LTA_afc,LTA_cfc)*AN		Ento_admplest	'//			
INST MAX LIMIT	•	1_limit/AML_MULT)/LTAMUL	•					
	//	·,	/					

1