pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northcentral Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0232726**
Wastewater Type	**Sewage**	APS ID	**1017365**
Facility Type	**SFTF**	Authorization ID	**1316142**

NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP

Applicant, Facility and Project Information

Applicant Name	**Potter Township Centre County**	Facility Name	**Bloom Road Sewer Treatment System**
Applicant Address	124 Short Road	Facility Address	Bloom Road
	Spring Mills, PA 16875-9326		Spring Mills, PA 16875
Applicant Contact	Dick Decker	Facility Contact	Dave Boliek
Applicant Phone	(814) 364-9196	Facility Phone	(813) 246-9314
Client ID	35324	Site ID	810903
SIC Code	4952	Municipality	Potter Township
SIC Description	Trans. & Utilities - Sewerage Systems	County	Centre
Date Application Received	June 2, 2020	WQM Required	N/A
Date Application Accepted	June 9, 2020	WQM App. No.	N/A

Project Description: Application for the renewal of the existing individual NPDES permit.

Summary of Review

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.

Potter Township, Centre County has submitted a NPDES Permit application for renewal of a 0.0016 MGD SFTF serving four homes, each with no more than three bedrooms. All of the homes have confirmed malfunctioning on-lot systems. The homes and proposed treatment facilities are along US Highway 322 (Bloom Road) in Potter Township.

Approve	Deny	Signatures	Date
X		*Jonathan P. Peterman* Jonathan P. Peterman / Project Manager	January 20, 2021
X		*Nicholas W. Hartranft* Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	January 21, 2021

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.0016
Latitude	40º 47' 23.11"	Longitude	-77º 37' 17.81"
Quad Name	Spring Mills	Quad Code	
Wastewater Description:	Sewage Effluent		
Receiving Waters	Potter Run (HQ-CWF)	Stream Code	18386
NHD Com ID	54970403	RMI	2.8
Drainage Area	5.81 mi^2	Yield (cfs/mi^2)	0.076
Q_{7-10} Flow (cfs)	0.44	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	1325	Slope (ft/ft)	Undetermined
Watershed No.	06A	Chapter 93 Class.	Cold Water Fishes, Migratory Fishes
Existing Use	HQ-CWF	Existing Use Qualifier	Designated Class A Wild Trout Stream
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Attaining Use(s)		
Nearest Downstream Public Water Supply Intake	United Water Pennsylvania		
PWS Waters	Susquehanna River	Distance from Outfall (mi)	Approx. 100

Treatment Facility Summary

Treatment Facility Name: Bloom Road Sewer Treatment System

WQM Permit No.	Issuance Date	Notes:
1416402	10/26/2016	Initial construction.

Waste Type	Degree of Treatment	Process Type	Disinfection	Design Flow (MGD)
Sewage	Tertiary	Septic Tank Sand Filter W/Sol Removal	Ultraviolet	0.0016
Hydraulic Capacity (MGD)	**Organic Capacity (lbs/day)**	**Load Status**	**Biosolids Treatment**	**Biosolids Use/Disposal**
0.0016	5.01	Not Overloaded	Anaerobic Digestion	Other WWTP

Treatment System Components:
The existing treatment process consists of 1,500-gallon ORENCO STEP interceptor septic tanks and bio-tube pump filters serving each individual home, a 2,000-gallon recirculation-blend tank, an ORENCO AdvanTex system with a textile media, and UV light disinfection.

Changes Since Last Permit Issuance: None.

TMDL Impairment

The Department's Geographic Information System (GIS) shows that the Potter Run is not impaired and a TMDL does not exist for the stream segment. No TMDL has been taken into consideration during this review.

Chesapeake Bay Requirements

Facilities that are designed based on a flow of less than 2,000 GPD (1,000 GPD design flow for this facility) are not a part of Pennsylvania's Chesapeake Bay Tributary Strategy. Accordingly, it is not practicable to require the permittee to perform nutrient monitoring.

Anti-Backsliding

In accordance with 40 CFR 122.44(l)(1) and (2), this permit does not contain effluent limitations, standards, or conditions that are less stringent than the previous permit.

Anti-Degradation Analysis

Due to the High-Quality existing use of the receiving stream the Township was required to conduct an anti-degradation analysis as part of the Act 537 planning process. This Act 537 Planning revision was approved for the project on November 17, 2015. The plan included a Social or Economic Justification (SEJ) for the proposed discharge to a high-quality stream which was approved. As a result of this analysis UV light disinfection was chosen rather than chlorine.

Existing Effluent Limitations and Monitoring Requirements

Existing Limits – Outfall 001

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	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
Fecal Coliform (CFU/100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/month	Grab

*The proposed effluent limits for Outfall 001 were based on a design flow of 0.0016 MGD.

Development of Effluent Limitations and Monitoring Frequencies

Outfall No. 001 **Design Flow (MGD)** 0.0010
Latitude 41º 31' 30.40" **Longitude** -77º 37' 17.81"
Wastewater Description: Sewage Effluent

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
BOD_5	10	Average Monthly	125.3(a)(2)(i)	DEP SFTF Design Manual (Document 362-0300-002)
	20	IMAX		
Total Suspended Solids	10	Average Monthly	125.3(a)(2)(i)	DEP SFTF Design Manual (Document 362-0300-002)
	20	IMAX		
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform	200 / 100 ml	Geo Mean	-	92a.47(a)(4)

Water Quality-Based Limitations

The Department utilizes the WQM 7.0 v1.0b and PENTOXSD v2.0d models to establish water quality-based effluent limitations. This modeling is not utilized for facilities that discharge less than 2,000 gpd.

Best Professional Judgement (BPJ) Limitations

None.
Comments: None.

Additional Considerations

None

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 the abovementioned 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) and/or BPJ.

Proposed Limits - Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date

Proposed Limits – Outfall 001

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	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
Fecal Coliform (CFU/100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/month	Grab

*The proposed effluent limits for Outfall 001 were based on a design flow of 0.0016 MGD.

Flow
There are no proposed changes for flow monitoring which is required by §92a.61(d)(1).

Five-Day Biochemical Oxygen Demand (BOD_5)
The limits for BOD_5 are existing technology-based effluent limits. Facilities that have been designed and built utilizing the technologies established in the *Small Flow Treatment Facilities Design Manual* (Document 362-0300-002) have been proven to continuously produce effluent with less than 10 mg/l (BOD_5) and is considered best practicable control technology currently available (BPT). In accordance with current policies and procedures for facilities of this type, an effluent limit for BOD_5 will be utilized in lieu of $CBOD_5$. The existing limits will remain.

Total Suspended Solids (TSS)
The limits for TSS are existing technology-based effluent limits. Facilities that have been designed and built utilizing the technologies established in the *Small Flow Treatment Facilities Design Manual* (Document 362-0300-002) have been proven to continuously produce effluent with less than 10 mg/l (TSS) and is considered best practicable control technology currently available (BPT). The existing limits will remain.

Fecal Coliforms
The existing fecal coliform limits correspond with what is specified in the updated 25 PA Code § 92a.47 (a)(4)&(5). No changes are proposed.

Ultraviolet (UV) Disinfection
For SFTFs / SRSTPs with UV systems, it is not necessary to require UV intensity or transmittance monitoring in the permit. No changes are proposed.

Sample Types
The sample types (grab and estimate) for all of the parameters correspond with the *Technical Guidance for the Development and Specification of Effluent Limitations* (362-0400-001) Table 6-3 and will remain.

Monitoring Frequencies
In order to maintain consistency with other SFTF facilities within the region, all monitoring frequencies will be required to be (1/ Month) at a minimum. In no case will "Upon Request" be utilized for monitoring of these parameters.

Other Comments: None.

Compliance History

WMS Query Summary - A WMS Query was run at *Reports - Violations & Enforcements – Open Violations for Client Report* to determine whether there are any unresolved violations associated with the client that will affect issuance of the permit (per CSL Section 609). This query revealed the following unresolved violations. The Operations section will be notified of these outstanding violations and the permit will be issued upon resolution of the violations.

CLIENT ID	CLIENT	PF ID	FACILITY	PROGRAM SPECIFIC ID	INSP ID	VIOLATION ID	VIOLATION DATE	VIOLATION CODE	VIOLATION	PF INSPECTOR
35324	POTTER TWP CENTRE CNTY	492292	POTTER TWP COUNTRY CLUB PARK WWTP	PA0035688	3060113	889734	07/28/2020	92A.44	NPDES - Violation of effluent limits in Part A of permit	ALCORN, CLARISSA
35324	POTTER TWP CENTRE CNTY	492292	POTTER TWP COUNTRY CLUB PARK WWTP	PA0035688	3060113	889735	07/28/2020	92A.61(C)	NPDES - Failure to monitor pollutants as required by the NPDES permit	ALCORN, CLARISSA

File Review / DMR's – The last facility inspection was conducted by the Department on 6/18/2018. NO issues are noted in this report. DMR's are on file.

Tools and References Used to Develop Permit	
☐	WQM for Windows Model (see Attachment)
☐	PENTOXSD for Windows Model (see Attachment)
☐	TRC Model Spreadsheet (see Attachment)
☐	Temperature Model Spreadsheet (see Attachment)
☐	Toxics Screening Analysis Spreadsheet (see Attachment)
☐	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
☒	Technical Guidance for the Development and Specification of Effluent Limitations, 362-0400-001, 10/97.
☐	Policy for Permitting Surface Water Diversions, 362-2000-003, 3/98.
☐	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 362-2000-008, 11/96.
☐	Technology-Based Control Requirements for Water Treatment Plant Wastes, 362-2183-003, 10/97.
☐	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 362-2183-004, 12/97.
☐	Pennsylvania CSO Policy, 385-2000-011, 9/08.
☐	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
☐	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 391-2000-002, 4/97.
☒	Determining Water Quality-Based Effluent Limits, 391-2000-003, 12/97.
☐	Implementation Guidance Design Conditions, 391-2000-006, 9/97.
☐	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 391-2000-007, 6/2004.
☐	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 391-2000-008, 10/1997.
☐	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 391-2000-010, 3/99.
☐	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 391-2000-011, 5/2004.
☐	Implementation Guidance for Section 93.7 Ammonia Criteria, 391-2000-013, 11/97.
☐	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 391-2000-014, 4/2008.
☐	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 391-2000-015, 11/1994.
☐	Implementation Guidance for Temperature Criteria, 391-2000-017, 4/09.
☐	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 391-2000-018, 10/97.
☐	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 391-2000-019, 10/97.
☐	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 391-2000-021, 3/99.
☐	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 391-2000-022, 3/1999.
☒	Design Stream Flows, 391-2000-023, 9/98.
☐	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 391-2000-024, 10/98.
☐	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 391-3200-013, 6/97.
☒	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
☒	SOP: New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications
☒	Other: Small Flow Treatment Facilities Manual (362-0300-002)

Appendix A – MAP