Pennsylvania Department of Environmental Protection

Southeast Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0244007**
Facility Type	**Non-Municipal**	APS ID	**1127265**
Major / Minor	**Minor**	Authorization ID	**1509240**

Applicant and Facility Information

Applicant Name	**Edward & Jane Bacon**	Facility Name	**Bacon SRSTP**
Applicant Address	1900 Fairview Road	Facility Address	1900 Fairview Road
	Glenmoore, PA 19343		Glenmoore, PA 19343
Applicant Contact	Edward Bacon	Facility Contact	Edward Bacon
Applicant Phone	(610) 662-3617	Facility Phone	(610) 662-3617
Client ID	237797	Site ID	639073
Ch 94 Load Status	Not Overloaded	Municipality	East Nantmeal Township
Connection Status	No Limitations	County	Chester
Date Application Received	November 14, 2024	EPA Waived?	Yes
Date Application Accepted		If No, Reason	

Purpose of Application: Application for renewal of NPDES permit.

Summary of Review

The application requests approval for renewal of a National Pollutant Discharge Elimination System (NPDES) permit to discharge 400 gpd of treated sewage from a single residence sewage treatment plant to an unnamed tributary to Beaver Run, designated EV-TSF, MF in Chapter 93. Beaver Run is tributary to French Creek in watershed 3D.

Effluent limits in the permit are continued from the existing permit. Information in the existing NPDES permit file says that the treatment facility had replaced a malfunctioning on-lot system.

EnviroServer small flow wastewater treatment facility serving single family residence. The EnviroServer is 600 gpd hybrid fixed-film, suspended growth extended aeration, biological treatment system. It is a reinforced fiberglass tank divided into 5 compartments; a primary clarifier, two aeration zones; a final clarifier and a 375-gallon effluent storage/disinfection compartment. Nitrified effluent is returned to the primary clarifier for denitrification using the primary solids as a carbon source. Treated effluent from the final clarifier flows through an UV disinfector. Effluent limits are based on General Permit (PAG04) for small flow sewage treatment plant for single family home. Effluent limits for all the parameters will remain the same in this permit renewal.

Following are effluent limits:

Parameters	Average Monthly Limit (mg/l)	Basis
CBOD5	10	PAG04 - Chapter 92a.47
Total Suspended Solids	20	PAG04 - Chapter 92a.47
Fecal Coliform	200 # /100 ml	PAG04 - Chapter 92a.47
pH	6.0 to 9.0 SU	PAG04 - Chapter 92a.47

Approve	Deny	Signatures	Date
X		Ketan Thaker Ketan Thaker / Project Manager	1/3/2025
X		Pravin Patel Pravin C. Patel, P.E. / Environmental Engineer Manager	01/03/2025

Summary of Review

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, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	.0004
Latitude	40Âº 8' 29.91"	Longitude	-75Âº 42' 7.65"
Quad Name		Quad Code	
Wastewater Description:	Sewage Effluent		

Receiving Waters	Beaver Run (EV, MF)	Stream Code	01573
NHD Com ID	25990548	RMI	3.15
Drainage Area		Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)		Q_{7-10} Basis	
Elevation (ft)		Slope (ft/ft)	
Watershed No.	3-D	Chapter 93 Class.	EV, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	

Background/Ambient Data		Data Source
pH (SU)		
Temperature (°F)		
Hardness (mg/L)		
Other:		

Nearest Downstream Public Water Supply Intake			
PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

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" (386-0400-001), 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	Annual Average	Maximum	Instant. Maximum		
Flow (GPD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/year	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	20.0	XXX	40	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab

Pennsylvania
Department of
Environmental Protection

Approve	Deny	Signatures	Date
X		Ketan Thaker Ketan Thaker / Project Manager	1/3/2025
X		Pravin Patel Pravin C. Patel, P.E. / Environmental Engineer Manager	01/03/2025