

Application Type Renewal
 Facility Type Non-Municipal
 Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0051942
 APS ID 1039551
 Authorization ID 1355719

Applicant and Facility Information

Applicant Name	<u>Margaret M. Brower</u>	Facility Name	<u>Brower SRSTP</u>
Applicant Address	<u>40 Grays Lane</u> <u>Elverson, PA 19520-9715</u>	Facility Address	<u>40 Grays Lane</u> <u>Elverson, PA 19520-9715</u>
Applicant Contact	<u>Margaret Brower</u>	Facility Contact	<u>Margaret Brower</u>
Applicant Phone	<u>(610) 413-6406</u>	Facility Phone	<u>(610) 413-6406</u>
Client ID	<u>316262</u>	Site ID	<u>3824</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Warwick Township</u>
Connection Status		County	<u>Chester</u>
Date Application Received	<u>May 26, 2021</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted		If No, Reason	
Purpose of Application	<u>Permit Renewal.</u>		

Summary of Review

The permittee requests renewal of an NPDES permit to discharge 400 gallons per day of treated sewage from Brower SRSTP to an unnamed tributary to French Creek in watershed 3D-Manatawny.

The treatment system consists of an NSF approved Nyadie aerobic unit followed by sand filtrations, tablet chlorination, and contact tank prior to discharge.

According to Operations Section, DEP received an annual report from the permittee on June 8, 2020 for 2019-2020 reporting period. Also, their 2018-2019 annual report indicated that the septic and dosing tanks were pumped on June 27, 2019.

There are no changes to the flow, treatment units, or receiving stream designation. Proposed effluent limits for Outfall 001, based on a design flow of 400 gallons per day are similar to the existing limits and as follows:

Parameters	Concentration (mg/l)	
	Annual Average	Instantaneous Maximum
Flow	Report	
CBDO ₅	10	20
Total Suspended Solids	10	20
Total Residual Chlorine	Report	
Fecal Coliform	200 No./100 ml	
pH (STU)	Instantaneous Minimum of 6.0 and Instantaneous Maximum of 9.0	

Approve	Deny	Signatures	Date
X		<i>Sara Abraham</i> Sara Reji Abraham, E.I.T. / Project Manager	June 10, 2021
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	06/10/2021

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.

Permit Conditions:

- A. AMR to DEP
- B. DMR to DEP
- C. 1/year Measure Depth of Septage and Scum
- D. Septic Tanks Pumped Out Every Three Years
- E. Chlorine Optimization
- F. No Stormwater
- G. Necessary Property Rights
- H. Proper Sludge Disposal
- I. Abandon STP when Municipal Sewers Available

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.0004
Latitude	40° 10' 6.00"	Longitude	-75° 46' 57.00"
Quad Name	Elverson	Quad Code	1739
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary to French Creek (EV, MF)	Stream Code	01595
NHD Com ID	25972378	RMI	3.0
Drainage Area	0.04 mi ²	Yield (cfs/mi ²)	0.01885
Q7-10 Flow (cfs)	0.000754	Q7-10 Basis	Pennsylvania StreamStats
Elevation (ft)	650		
Watershed No.	3-D	Chapter 93 Class.	EV, MF

*these information from the previous fact sheet.

Treatment Facility Summary				
Treatment Facility Name: Brower SRSTP				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	Extended Aeration with Solids Removal	Hypochlorite	0.0004
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
		Not Overloaded		

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	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	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
TRC	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab