

Application Type

Renewal

Facility Type

Non-Municipal

Major / Minor

Minor

Application No.

PA0053015

APS ID

1127333

Authorization ID

1509344

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Applicant and Facility Information

Applicant Name	<u>Joseph Werner</u>	Facility Name	<u>Country Place Restaurant STP</u>
Applicant Address	<u>1007 Route 313</u>	Facility Address	<u>1007 Route 313</u>
	<u>Perkasie, PA 18944-3775</u>		<u>Perkasie, PA 18944-3775</u>
Applicant Contact	<u>Joseph Werner</u>	Facility Contact	<u>Daniel Wurst</u>
Applicant Phone	<u>(267) 718-3861</u>	Facility Phone	<u>(267) 718-3861</u>
Client ID	<u>62705</u>	Site ID	<u>253312</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>East Rockhill Township</u>
Connection Status		County	<u>Bucks</u>
Date Application Received	<u>December 12, 2024</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted		If No, Reason	
Purpose of Application	<u>Permit Renewal</u>		

Summary of Review

The applicant requests renewal of an NPDES permit to discharge 4,320 gpd of treated sewage from Country Place Restaurant STP to an unnamed tributary of Three Mile Run.

The treatment plant consists of a flow equalization tank, two aeration tanks, a clarifier, two tertiary sand filters, a sludge holding tank and a chlorination unit.

Aluminum Sulfate is listed as wastewater chemical for phosphorus sequestering.

No upgrades are proposed at this renewal.

Review of the eDMR shows the discharge is in compliance with the permit limitations. DEP inspection was conducted on 3/19/2024 and no violations were noted in the report.

Since there are no changes to the influent characteristics, stream quality, treatment units etc., the existing limits are carried over to the new permit. Effluent limit for Total Phosphorus is based on TMDL for nutrients for Lake Nockamixon where effluent limit of 0.5 mg/l is assigned to all dischargers contributing to Lake Nockamixon.

Sludge use and disposal description and location(s): Hauling liquid sludge off site for disposal.

Approve	Deny	Signatures	Date
X		<i>Sara Abraham</i> Sara Reji Abraham, E.I.T. / Project Manager	January 15, 2025
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	01/16/2025

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.

Act 14 Notifications:

East Rockhill Township	- November 13, 2024
Bucks County	- November 13, 2024

Permit Conditions:

- A. No Stormwater
- B. Acquire Necessary Property Rights
- C. Proper Sludge Disposal
- D. Abandon STP when Municipal Sewers Available
- E. Chlorine Optimization
- F. Dry Stream Discharge
- G. Operator Notification
- H. Fecal Coliform Reporting
- I. Solids Management

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.00432
Latitude	40° 24' 34.93"	Longitude	-75° 15' 46.92"
Quad Name	Quakertown	Quad Code	1543
Wastewater Description:	Treated Sewage Effluent		
Receiving Waters	Unnamed Tributary to Threemile Run (TSF, MF)	Stream Code	03170
NHD Com ID	26053510	RMI	0.94
Drainage Area	0.34 sq. mi.	Q ₇₋₁₀ Basis	Previous fact sheet
Q ₇₋₁₀ Flow (cfs)	00038 cfs	Chapter 93 Class.	TSF, MF
Watershed No.	2-D		
Assessment Status	Attaining Use(s)		

Treatment Facility Summary				
Treatment Facility Name: Country Place Restaurant STP				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	Extended Aeration With Solids Removal	Hypochlorite	0.00432
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.00432		Not Overloaded		

Compliance History

DMR Data for Outfall 001 (from December 1, 2023 to November 30, 2024)

Parameter	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23
Flow (MGD) Average Monthly	0.00139 8	0.00129 1	0.00136 1	0.00178 1	0.00188 6	0.00149 5	0.00175 7	0.00224 5	0.00250 3	0.00166 7	0.00220 8	0.00186 4
Flow (MGD) Daily Maximum	0.00250 5	0.00164	0.00230 5	0.00318 5	0.0044	0.00311	0.0029	0.00729 5	0.00605	0.00253	0.00487	0.00522
pH (S.U.) Instantaneous Minimum	7.4	7.5	7.5	7.6	7.5	7.4	7.2	7.0	7.2	7.2	6.7	6.9
pH (S.U.) Instantaneous Maximum	7.7	7.8	7.7	7.8	7.6	7.6	7.5	7.5	7.4	7.4	7.7	7.2
DO (mg/L) Instantaneous Minimum	8.8	8.2	8.0	7.5	6.6	6.3	6.6	6.4	7.2	8.9	8.8	7.7
TRC (mg/L) Average Monthly	0.11	0.08	0.12	0.07	0.10	0.06	0.11	0.04	0.08	0.08	0.08	0.02
TRC (mg/L) Instantaneous Maximum	0.30	0.15	0.20	0.14	0.14	0.11	0.20	0.08	0.22	0.20	0.23	0.03
CBOD5 (mg/L) Average Monthly	< 2.0	2.5	< 2.0	< 2.0	< 2.0	2.0	2.0	2.0	2.0	2.5	2.0	2.0
TSS (mg/L) Average Monthly	3.0	4.5	4.0	5.0	6.0	4.0	1.5	1.0	2.5	1.0	1.5	3.0
Fecal Coliform (No./100 ml) Geometric Mean	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	7.0	8.0	10.0	< 1.0	< 1.0
Fecal Coliform (No./100 ml) Instantaneous Maximum	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	50.0	64.0	110.0	< 1.0	< 1.0
Total Nitrogen (mg/L) Average Monthly	3.16	3.95	2.96	2.75	3.01	6.53	3.98	5.79	10.92	6.37	6.82	9.21
Ammonia (mg/L) Average Monthly	0.10	0.30	0.10	0.10	0.10	2.0	0.10	0.10	8.0	0.80	2.7	0.20
Total Phosphorus (mg/L) Average Monthly	0.15	0.17	0.22	0.45	0.26	0.39	0.17	0.11	0.18	0.15	0.12	0.17

Compliance History

No noncompliance reported.

Development of Effluent Limitations				
Outfall No.	001	Design Flow (MGD)	.00432	
Latitude	40° 24' 35.00"	Longitude	-75° 15' 47.00"	
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
CBOD ₅	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform (5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

The following are the recommended effluent limitations for the draft permit:

Parameter	Limit (mg/l)	SBC	Basis
CBOD5 (05-1 to 10-31)	10	Average Monthly	Existing
CBOD5 (11-1 to 04-30)	20	Average Monthly	Existing Seasonal limit
TSS	30	Average Monthly	DRBC
NH3 as N (5-1 to 10-31)	3.0	Average Monthly	Existing
NH3 as N (11-1 to 4-30)	9.0	Average Monthly	Existing Seasonal limit
Total Phosphorus	0.5	Average Monthly	*
Dissolved Oxygen	4.0	Inst. Min.	Existing
TRC	0.17	Average Monthly	previous spreadsheet
Fecal Coliform (CFU/100ml)	200/1000	Ave. Monthly/Imax.	Ch. 93/DRBC
pH	6.0 to 9.0 STD	units at all times	Ch. 93
Total Nitrogen	Report	Average Monthly	SOP/data Collection
E. Coli**	Report	Imax.	Ch. 92.a.

All these above limits are carried over from the existing permit except for E. Coli.

Based on the file review it appeared that the CBOD5 and NH3-N limits are based on the dry stream guidance (at the time) and established at the original issuance in 1988. These are based on protection of ground water as effluent is discharged into dry stream.

*Based on Lake Nockamixon TMDL where effluent limit of 0.5 mg/l is assigned to all dischargers contributing to Lake Nockamixon.

**E. Coli monitoring is included in the draft permit according to the DEP SOP guidance (Chapter 92.a.61). This is a new requirement and is consistent with the requirements of other similar discharges in the area.

Anti-Backsliding

N/A

Proposed Effluent Limitations and Monitoring Requirements

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	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/week	Grab
DO	XXX	XXX	4.0 Inst Min	XXX	XXX	XXX	1/week	Grab
TRC	XXX	XXX	XXX	0.17	XXX	0.32	1/week	Grab
CBOD5 Nov 1 - Apr 30	XXX	XXX	XXX	20	XXX	40	2/month	8-Hr Composite
CBOD5 May 1 - Oct 31	XXX	XXX	XXX	10	XXX	20	2/month	8-Hr Composite
TSS	XXX	XXX	XXX	30	XXX	60	2/month	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	2/month	8-Hr Composite
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	9.0	XXX	18	2/month	8-Hr Composite
Ammonia May 1 - Oct 31	XXX	XXX	XXX	3.0	XXX	6	2/month	8-Hr Composite

Outfall 001, Continued (from 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	Average Monthly	Maximum	Instant. Maximum		
Total Phosphorus	XXX	XXX	XXX	0.5	XXX	1	2/month	8-Hr Composite



Pennsylvania
Department of
Environmental Protection