

CLEAN WATER PROGRAM

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0053015
 APS ID 1008154
 Authorization ID 1299612

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> <u>Perkasie, PA 18944-3775</u>	Facility Address	<u>1007 Route 313</u> <u>Perkasie, PA 18944-3775</u>
Applicant Contact	<u>Joseph Werner</u>	Facility Contact	<u>Daniel Wurst</u>
Applicant Phone	<u>(215) 257-7031</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 2, 2019</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. A grease trap is provided at the facility. The discharge is mostly in compliance with the permit limitations.

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 limits are based on protection of ground water as effluent is discharged into dry stream. 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.

Act-14 Notification to Bucks County and East Rockhill Township on November 26, 2019 through certified mail.

Approve	Deny	Signatures	Date
X		Ketan Thaker / Project Manager <i>Ketan Thaker</i>	April 7, 2020
X		<i>Pravin Patel</i> /Pravin C. Patel, P.E. / Environmental Engineer Manager/	04/07/2020

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.	<u>001</u>	Design Flow (MGD)	<u>.00432</u>
Latitude	<u>40° 24' 34.93"</u>	Longitude	<u>-75° 15' 46.92"</u>
Quad Name	<u>Quakertown</u>	Quad Code	<u></u>
Wastewater Description: <u>Sewage Effluent</u>			

Receiving Waters	<u>Unnamed Tributary to Threemile Run (TSF, MF)</u>	Stream Code	<u>03170</u>
NHD Com ID	<u>26053510</u>	RMI	<u>0.94</u>
Drainage Area	<u>0.34 sq.mi.</u>	Yield (cfs/mi ²)	<u></u>
Q ₇₋₁₀ Flow (cfs)	<u>0.0038 cfs</u>	Q ₇₋₁₀ Basis	<u>Previous WQPR</u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>2-D</u>	Chapter 93 Class.	<u>TSF, MF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>

Assessment Status Attaining Use(s)

Cause(s) of Impairment

Source(s) of Impairment

TMDL Status Name

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

Nearest Downstream Public Water Supply Intake

PWS Waters	<u></u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u></u>

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 March 1, 2019 to February 29, 2020)

Parameter	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19	APR-19	MAR-19
Flow (MGD) Average Monthly	0.00221	0.00207	0.00189	0.00203	0.00204	0.00207	0.00216	0.00210	0.00206	0.00214	0.00176	0.00186
Flow (MGD) Daily Maximum	0.00473	0.00394	0.00259	0.00242	0.00245	0.00277	0.00268	0.00247	0.00218	0.00326	0.00229	0.00309
pH (S.U.) Instantaneous Minimum	7.0	7.0	6.9	7.0	7.2	7.2	7.0	7.0	7.1	7.1	7.2	7.1
pH (S.U.) Instantaneous Maximum	7.2	7.2	7.5	7.2	7.6	7.5	7.2	7.3	7.3	7.4	7.4	7.2
DO (mg/L) Instantaneous Minimum	9.4	9.4	10.3	9.1	7.5	7.5	6.3	6.0	6.0	7.2	8.0	10.7
TRC (mg/L) Average Monthly	0.11	0.06	0.04	0.12	0.13	0.15	0.08	0.09	0.05	0.09	0.04	0.05
TRC (mg/L) Instantaneous Maximum	0.16	0.09	0.06	0.19	0.25	0.32	0.17	0.24	0.08	0.13	0.07	0.08
CBOD5 (mg/L) Average Monthly	2.0	3.0	5.0	2.0	< 2.0	< 2.0	2.0	< 2.0	2.0	2.0	2.0	3.0
TSS (mg/L) Average Monthly	5.0	10.0	9.0	3.0	3.0	5.0	< 1.0	3.5	8.5	3.5	2.5	3.0
Fecal Coliform (CFU/100 ml) Geometric Mean	151.0	245.0	138.0	< 7.5	< 1.0	3.0	< 1.0	< 1.0	< 1.0	20.5	172.0	193.0
Fecal Coliform (CFU/100 ml) Instantaneous Maximum	600.0	450.0	220.0	< 11.0	< 1.0	5.0	< 1.0	< 1.0	< 1.0	40.0	240.0	200.0
Total Nitrogen (mg/L) Average Monthly	9.81	7.53	16.6	13.3	4.28	8.31	4.14	3.15	2.47	3.13	3.1	14.0
Ammonia (mg/L) Average Monthly	< 0.1	1.6	< 0.1	< 0.1	< 0.10	< 0.1	0.20	< 0.10	< 0.10	< 0.10	0.20	< 0.1
Total Phosphorus (mg/L) Average Monthly	0.14	0.33	0.19	0.21	0.14	0.47	0.88	1.34	0.40	0.28	0.34	0.25

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	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)	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	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
Total Phosphorus	XXX	XXX	XXX	0.5	XXX	1	2/month	8-Hr Composite