pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0051306**
Facility Type	**Non-Municipal**	APS ID	**1089764**
Major / Minor	**Minor**	Authorization ID	**1442088**

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Applicant and Facility Information

Applicant Name	**Camp Green Lane/ Green Lane Operating Company**	Facility Name	**Camp Green Lane STP**
Applicant Address	249 Camp Green Lane Road	Facility Address	249 Camp Green Lane Road
	Green Lane, PA 18054-2306		Green Lane, PA 18054-2306
Applicant Contact	Jay Freedman	Facility Contact	Jay Freedman
Applicant Phone	(215) 234-9211	Facility Phone	(215) 234-9211
Client ID	304140	Site ID	247938
Ch 94 Load Status	Not Overloaded	Municipality	Salford Township
Connection Status		County	Montgomery
Date Application Received	April 15, 2023	EPA Waived?	Yes
Date Application Accepted		If No, Reason	

Purpose of Application: Permit Renewal.

Summary of Review

The applicant requests renewal of an NPDES permit to discharge treated sewage from Camp Green Lane STP.

The plant serves “Camp Green Lane” a seasonal recreational camp for children and has an extended aeration activated sludge process. Plant consists of a comminutor, bar screen, flow equalization tank, aeration tank, alum feed, final clarifier, intermittent sand filters, chlorination tank and sludge holding tank.

The wastewater treatment chemicals listed in the application are Aluminum Sulfate (48%) (phosphorus removal), Soda Ash (alkalinity supplement), Sodium Hypochlorite (disinfection) and Sodium Bisulfite (dechlorination).

No proposed upgrades are listed in the application.

eDMR review shows the discharge is in compliance with the permit effluent limitations.

No comments received from Operations Section. According to the 2022 inspection report, the treatment plant continues to suffer from collection system I&I which has a negative influence on the treatment process.

There are no changes in the flow, stream designation, influent characteristics etc. Therefore, the current limits are carried over to the draft permit.

Sludge use and disposal description and location(s): hauled away to other POTWs.

Approve	Deny	Signatures	Date
X		*Sara Abraham* Sara Reji Abraham, E.I.T. / Project Manager	June 7, 2023
/X		***Pravin Patel*** Pravin C. Patel, P.E. / Environmental Engineer Manager	06/08/2023

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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:

Salford Township - March 27, 2023
Montgomery County - March 27, 2023

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. Operator Notification
G. Fecal Coliform Reporting
H. Seeding of Aeration Tank
I. Solids Management

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.042
Latitude	40º 19' 45.05"	Longitude	-75º 25' 52.81"
Quad Name	Perkiomenville	Quad Code	1642
Wastewater Description:	Treated Sewage Effluent		
Receiving Waters	Ridge Valley Creek	Stream Code	01365
NHD Com ID	25987368	RMI	1.1
Drainage Area	10 mi^2		
Q_{7-10} Flow (cfs)	0.14	Q_{7-10} Basis	Previous fact sheet
Watershed No.	3-E	Chapter 93 Class.	HQ-TSF
Assessment Status	Attaining Use(s)		

Treatment Facility Summary

Treatment Facility Name: Camp Green Lane STP

WQM Permit No.	Issuance Date
4698406	05/10/1998

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary with Ammonia and Phosphorus	Extended Aeration	Hypochlorite	0.042

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.042		Not Overloaded		Other WWTP

Changes Since Last Permit Issuance: None

This plant is several decades old, has had a few owners and the original design data was not located. However according to the applicant, the organic capacity of the plant is reasonably estimated as 101 lbs BOD5 /day (from the 2018 fact sheet).

Compliance History

DMR Data for Outfall 001 (from May 1, 2022 to April 30, 2023)

Parameter	APR-23	MAR-23	FEB-23	JAN-23	DEC-22	NOV-22	OCT-22	SEP-22	AUG-22	JUL-22	JUN-22	MAY-22
Flow (MGD) Average Monthly	0.0126						0.0172	0.0077	0.0119	0.0141	0.0093	0.0362
Flow (MGD) Daily Maximum	0.042						0.0706	0.0412	0.0336	0.025	0.033	0.116
pH (S.U.) Instantaneous Minimum	7.0						6.97	7.1	6.96	6.98	6.97	6.92
pH (S.U.) Instantaneous Maximum	8.55						7.44	7.67	7.5	7.45	7.77	7.56
DO (mg/L) Instantaneous Minimum	7.3						7.15	7.45	7.04	6.25	6.95	6.62
TRC (mg/L) Average Monthly	0.1						0.1	0.1	0.01	0.1	0.01	0.04
TRC (mg/L) Instantaneous Maximum	0.45						0.3	0.88	0.26	0.11	0.11	0.92
CBOD5 (mg/L) Average Monthly	2.0						< 2	< 3	< 2	2	2	< 2
TSS (mg/L) Average Monthly	< 1						< 3	< 5	< 2	4	2	2.5
Fecal Coliform (No./100 ml) Geometric Mean	< 1						< 3	< 1	3	8	9	< 1
Fecal Coliform (No./100 ml) Instantaneous Maximum	< 1						9	1	11	60	22	< 1
Total Nitrogen (mg/L) Average Monthly	2.66						1.56	< 0.03	13.66	14.4	4.08	0.48
Ammonia (mg/L) Average Monthly	< 0.02						< 0.03	2.05	< 0.02	< 0.02	0.26	< 0.02
Total Phosphorus (mg/L) Average Monthly	0.47						0.4	0.7	1.1	0.9	0.3	0.3

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .042
Latitude 40º 19' 43.00" **Longitude** -75º 25' 54.00"
Wastewater Description: Treated 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 limitations were determined to be included in the permit:

Parameter	Limit (mg/l)	SBC	Basis
CBOD5 (5/1 to 10/31)	20	Monthly Average	Existing limit / Previous WQM modeling
CBOD5 (11/1 to 4/30)	25	Monthly Average	Existing limit / Seasonal limit
TSS	30	Monthly Average	Existing limit/DRBC
NH3-N (5/1 to 10/310	4	Monthly Average	Existing limit / Previous WQM modeling
NH3-N (11/1 to 4/30)	8	Monthly Average	Existing limit/ seasonal limit
Total Phosphorus	2	Monthly Average	Existing limit /Ch. 96
Total Nitrogen	Report	Monthly Average	Existing/SOP
TRC	0.5/1.0	Mon.Ave./Imax	Existing limit/Previous TRC spreadsheet
Fecal Coliform	200/1000	Geo.Mean/Imax	Existing limit / Ch. 92/DRBC
E. Coli*	Report	Imax	SOP
pH	6.0 to 9.0 STD units at all the time		Existing limit / Ch. 93

Comments: * E Coli is the only new parameter in the draft permit.

Anti-Backsliding

N/A

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	Continuous	Metered
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0 Inst Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.0	1/day	Grab
CBOD5 Nov 1 - Apr 30	XXX	XXX	XXX	25	XXX	50	2/month	24-Hr Composite
CBOD5 May 1 - Oct 31	XXX	XXX	XXX	20	XXX	40	2/month	24-Hr Composite
TSS	XXX	XXX	XXX	30	XXX	60	2/month	24-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	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	2/month	24-Hr Composite
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	8.0	XXX	16	2/month	24-Hr Composite
Ammonia May 1 - Oct 31	XXX	XXX	XXX	4.0	XXX	8	2/month	24-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	2.0	XXX	4	2/month	24-Hr Composite