pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northeast Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0061565**
Facility Type	**Non-Municipal**	APS ID	**657144**
Major / Minor	**Minor**	Authorization ID	**1149343**

Applicant and Facility Information

Applicant Name	**Chestnut Lake Camp**	Facility Name	**Chestnut Lake Camp WWTP**
Applicant Address	1714 Wantagh Avenue	Facility Address	326 Trails End Road
	Wantagh, NY 11793-3904		Beach Lake, PA 18405
Applicant Contact	Marc Honigfeld	Facility Contact	David Liptak
Applicant Phone	(516) 221-8800	Facility Phone	(570) 729-1010
Client ID	267267	Site ID	442134
Ch 94 Load Status	-	Municipality	Berlin Township
Connection Status	-	County	Wayne
Date Application Received	May 15, 2023	EPA Waived?	Yes
Date Application Accepted	May 15, 2023	If No, Reason	-

Purpose of Application: Renewal of existing NPDES permit.

Summary of Review

The applicant is requesting renewal of their NPDES permit to discharge up to 0.021 MGD of treated sewage to an unnamed tributary to Beach Lake (stream code 6190), a HQ-CWF/MF designated receiving stream in state water plan basin 01-A (Shehawken – Rattlesnake Creeks). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use.

A point of first aquatic use determination for the camp discharge was conducted prior to the previous 5-year permit term (see POFU memo attachment) and the discharge location was considered the point of first use for modeling purposes. It was determined that the size of the wetland area as shown on PA DEP's eMapPA as well as historic topographical maps are accurate representations of the actual size of the wetlands. Since maps show two streams (tributaries 6188 and 6190 to Beach Lake) running through the same wetlands, it was determined to use the total drainage area of both contributing streams for modeling purposes. Although the maps show streams running through the wetlands, there were no defined beds and/or banks found during the site visit.

Effluent limits for $CBOD_5$, TSS, pH and Fecal Coliform are technology-based and carried over from the previous permit.

Modeling inputs used during the previous permit renewal are carried over for this renewal (see Watershed Information attachment). Neither WQM 7.0 modeling nor the TRC calculation spreadsheet recommended more stringent limitations for any parameters (see modeling attachments). Note: running the model with extra dilution from Beach Lake did not affect previous modeling results (see WQM 1998 attachments).

The Total Phosphorus limitations established in the previous renewal are carried over. They were originally developed based on a survey finding Beach Lake to be eutrophic. Point source controls of the more stringent of the existing phosphorus concentration or 2 mg/L were recommended. The Phosphorus Control Decision Matrix, found in DEP's

Approve	Deny	Signatures	Date
X		Brian Burden Brian Burden, E.I.T. / Project Manager	February 5, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Program Manager	2-7-24

Summary of Review

Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments (doc. no. 391-2000-010), also recommended the established 2 mg/L monthly average limitation.

Quarterly monitoring and reporting requirements are continued in this permit renewal for Total Nitrogen (Total Kjeldahl Nitrogen + Nitrate+Nitrite-Nitrogen). Annual monitoring/reporting is added to the permit for E. Coli as per current DEP guidance.

Monitoring frequencies for all parameters with limitations are consistent with the recommended frequencies found in Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations (doc. no. 362-0400-001).

Part C special condition III is carried over for this renewal requiring the permittee to notify the Department when discharging through the outfall commences. This is intended to allow for better coordination with the DEP Water Quality Specialist responsible for conducting site inspections.

The permit application indicates no sludge/biosolids were hauled offsite during the previous year. A previously submitted Sewage Sludge / Biosolids Production and Disposal supplemental report indicated that solids are hauled away by Koberlein Environmental Services for land application.

The previously issued permit expired on December 31, 2023 and the application for permit renewal was submitted on time. There are no open violations for the client that would warrant withholding the issuance of this permit. No DRBC docket exists for the facility. Antibacksliding requirements have been met since no effluent limitations were made less stringent or removed from the permit. An antidegradation analysis was not required since the facility is not increasing its flow. EPA waiver is in effect.

WQM Modeling 2024.pdf
WQM Modeling 2018.pdf
WQM Lake 2018.pdf
TRC Calculation.pdf
Watershed Information.pdf
POFU Memo.pdf
Lake Survey.pdf

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.

Summary of Review

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.021
Latitude	41º 36' 31"	Longitude	-75º 9' 48"
Quad Name	White Mills	Quad Code	0644
Wastewater Description:	Sewage Effluent		

Receiving Waters	Unnamed Tributary to Beach Lake	Stream Code	6190 & 6188 (see above explanation)
NHD Com ID	25874176	RMI	0.5
Drainage Area	0.56 mi^2	Yield (cfs/mi^2)	0.1
Q_{7-10} Flow (cfs)	0.056	Q_{7-10} Basis	Default LFY
Elevation (ft)	1293.8	Slope (ft/ft)	0.0008
Watershed No.	1-A	Chapter 93 Class.	HQ-CWF
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		Easton Area Water System	
PWS Waters	Delaware River	Flow at Intake (cfs)	1105
PWS RMI	109.8	Distance from Outfall (mi)	~113

Treatment Facility Summary				
Treatment Facility Name: Chestnut Lake Camp WWTP				
Waste Type	**Degree of Treatment**	**Process Type**	**Disinfection**	**Avg Annual Flow (MGD)**
Sewage	Secondary	Facultative Lagoons	Sodium Hypochlorite	0.021
Hydraulic Capacity (MGD)	**Organic Capacity (lbs/day)**	**Load Status**	**Biosolids Treatment**	**Biosolids Use/Disposal**
0.021	42*	Not Overloaded	Settled	Land Applied

Changes Since Last Permit Renewal: WQM permit 6420401 was issued for upgrades to the WWTP, including installation of three aerators, construction of a phosphorous removal system with utlity shed, and installation of a chemical feed pump for dechlorination in the exisiting lagoon system.

Other Comments: *Organic capacity based on Domestic Wastewater Facilities Manual (doc. no. 362-0300-001, revised 10/1/1997) section for camps (43.51).

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.021
Latitude 41º 36' 31" **Longitude** -75º 9' 48"
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
$CBOD_5$	25.0	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	50.0	IMAX	-	-
Total Suspended Solids	30.0	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	60.0	IMAX	-	-*
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)
	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)
	10,000 / 100 ml	IMAX	-	92a.47(a)(5)

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model/Guidance
Ammonia-N (5/1 – 10/31)	5.7	Average Monthly	WQM 7.0 (2018)
	11.4	IMAX	
Ammonia-N (11/1 – 4/30)	17.1	Average Monthly	WQM 7.0 (2018)
	34.2	IMAX	
Total Phosphorus	2.0	Average Monthly	2016 DEP Lake Survey
	4.0	IMAX	
Total Residual Chlorine	0.26	Average Monthly	TRC Calculation Spreadsheet (2018)
	0.85	IMAX	