

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. **PA0033472**
APS ID **565010**
Authorization ID **1445018**

Applicant and Facility Information

Applicant Name	<u>Camp Starlight Inc.</u>	Facility Name	<u>Camp Starlight</u>
Applicant Address	<u>P O Box 33389</u> <u>Palm Beach Gardens, FL 33420</u>	Facility Address	<u>151 Starlight Lake Road</u> <u>Starlight, PA 18461-1034</u>
Applicant Contact	<u>David Miller</u>	Facility Contact	<u>Mike Shumaker</u>
Applicant Phone	<u>(877) 875-3971</u>	Facility Phone	<u>(570) 417-4887</u>
Client ID	<u>39461</u>	Site ID	<u>261141</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Preston Township</u>
Connection Status		County	<u>Wayne</u>
Date Application Received	<u>June 21, 2023</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>June 21, 2023</u>	If No, Reason	
Purpose of Application	<u>RENEWAL OF EXISTING NPDES PERMIT</u>		

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.027 MGD of treated sewage into an Unnamed Tributary to Shehawken Creek, a High Quality-Cold Water Fishery, Migratory Fish (HQ-CWF, MF) receiving stream in State Water Plan Basin 1-A (Shehawken – Rattle 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. This stream segment is not designated as a naturally reproducing trout stream as per PA Fish & Boat Commission. This discharge is not expected to affect public water supplies.

Limitations for pH, Total Suspended Solids (TSS), CBOD₅, and Fecal Coliform are technology-based and carried over from the previous permit. Limitations for Dissolved Oxygen, Ammonia-Nitrogen, and Total Residual Chlorine (TRC) are water quality-based and carried over from the previous permit. The TRC Calculation Spreadsheet confirms these limitations are appropriate.

Monitoring/reporting for Total Nitrogen (TN) is now required for all individual Sewage Permits and has been added to the permit.

The latest DRBC Docket No. D-2017-005-2 requires the addition of monthly monitoring and reporting for CBOD (5-Day at 20° C) of the raw sewage influent, Total Phosphorous, Nitrate+Nitrite as Nitrogen, and Total Kjeldahl Nitrogen. The docket also requires quarterly monitoring and reporting for Total Dissolved Solids. 85% minimum monthly percent removal for (CBDO₅ at 20°C) is included in this renewal permit.

Annual E-Coli monitoring and reporting is added as per 2024 Updated SOP for NPDES for sewage. Monitoring/reporting for Total Nitrogen (TN) is now required for all Individual Sewage Permits and has been added to the permit.

Approve	Deny	Signatures	Date
X		Hakim Yesli (signed) Hakim Yesli / Environmental Engineering Specialist	June 28, 2024.
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager	7-12-24

Summary of Review

Monitoring frequencies for all parameters with limitations have been updated to the recommended frequencies found in Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations (Document No. 362-0400-001).

The existing USGS stream gage in the area cannot be used for low flow yield because it is not in near the discharge and cover larger area if compared to the Outfall 001 drainage area.

The state-wide default Low Flow Yield (LFY) of 0.1 cfs/mi² was used for the water quality modeling (WQM7.0)

WQM permit amendment issued on April 4, 2024 for UV installation.

The UV system will be the primary means of disinfection and Chlorine will be used as emergency backup system. TRC monitoring and limits will remain in the permit to be sampled daily when chlorine is used for disinfection or other purposes.

There are currently 4 open violations:

INSP ID	VIOLATION ID	VIOLATION DATE	VIOLATION CODE	VIOLATION
3214140	922133	07/01/2021	92A.44	NPDES - Violation of effluent limits in Part A of permit
3214140	922134	07/01/2021	92A.41(A)12B	NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports
3214140	922135	07/01/2021	92A.61(C)	NPDES - Failure to monitor pollutants as required by the NPDES permit
3216636	922641	07/02/2021	CSL611	CSL - Failure to comply with terms and conditions of a WQM permit



WQM1.1 Inputs &
Results.pdf



basin Characteristics
for DownRMI.pdf



TRC_CALC (4).pdf



Basin Characteristics
for Upstream RMI.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

Summary of Review

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.	001	Design Flow (MGD)	.027
Latitude	41° 53' 28.74"	Longitude	-75° 20' 42.85"
Quad Name	Hancock	Quad Code	0343
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary to Shehawken Creek (HQ-CWF)	Stream Code	6613
NHD Com ID	25861966	RMI	
Drainage Area	1.32	Yield (cfs/mi ²)	0.1
Q ₇₋₁₀ Flow (cfs)		Q ₇₋₁₀ Basis	Statewide
Elevation (ft)		Slope (ft/ft)	-
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 treatment Plant		
PWS Waters	-Delaware	Flow at Intake (cfs)	-
PWS RMI	-110.4	Distance from Outfall (mi)	-156

Treatment Facility Summary				
Treatment Facility Name: Camp Starlight Inc.				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Aeration	Sodium Hypochlorite	0.008
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.027	54.0	Not Overloaded	Holding Tank	Hauled

Development of Effluent Limitations

Outfall No.	001	Design Flow (MGD)	.027
Latitude	41° 53' 27.00"	Longitude	-75° 20' 43.00"
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 limitations were determined through water quality modeling (output files attached):

Water Quality-Based Limitations

The following limitations were determined through water quality modeling (output files attached):

Parameter	Limit (mg/l)	SBC	Model
Total Residual Chlorine	0.25	Average Monthly	Previous Modeling
	0.58	IMAX	
Ammonia-Nitrogen May 1 – Oct 31	5.0	Average Monthly	Previous Modeling
	10.0	IMAX	
Ammonia-Nitrogen Nov 1 - Apr 30	10.0	Average Monthly	Previous Modeling
	20.0	IMAX	
Dissolved Oxygen	7.0	Minimum	Previous Modeling
Total Phosphorous	Monitor and Report	Average Monthly	DRBC
Nitrate+Nitrite as Nitrogen	Monitor and Report	Average Monthly	DRBC
Total Kjeldahl Nitrogen	Monitor and Report	Average Monthly	DRBC
Total Dissolved Solids	Monitor and Report	Average Quarterly	DRBC
CBOD ₅ (5-Day at 20°C) Influent	Monitor and Report	Average Monthly	DRBC