

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0036382
 APS ID 565198
 Authorization ID 1359176

Applicant and Facility Information

Applicant Name	<u>Camp Morasha Inc.</u>	Facility Name	<u>Camp Morasha</u>
Applicant Address	<u>274 High Lake Road</u> <u>Lakewood, PA 18439</u>	Facility Address	<u>274 High Lake Road</u> <u>Lakewood, PA 18439-3968</u>
Applicant Contact	<u>Jeremey Jozsek</u> <u>jerjoszef@gmail.com</u>	Facility Contact	<u>Jim Barton</u> <u>jimbartonjr@gmail.com</u>
Applicant Phone	<u>(718) 252-9696</u>	Facility Phone	<u>(570) 351-4891</u>
Client ID	<u>39459</u>	Site ID	<u>261124</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Buckingham Township</u>
Connection Status		County	<u>Wayne</u>
Date Application Received	<u>June 21, 2021</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>June 21, 2021</u>	If No, Reason	
Purpose of Application	<u>RENEWAL OF EXISTING NPDES PERMIT.</u>		

Summary of Review

The applicant is requesting renewal of their NPDES permit to discharge up to 0.045 MGD of treated sewage to an unnamed tributary to Equinunk Creek (stream code 06526) (HQ-CWF) in State Water Plan Basin 01-A (Shehawken – Rattlesnake Creeks). The stream is classified for High Quality Waters - Cold Water Fishes, aquatic life, water supply and recreation. The discharge is not expected to affect public water supplies. 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.

Unchanged Technology-based effluent limits are pH, CBOD₅, TSS, and Fecal Coliform. Unchanged Water Quality-based effluent limits are Dissolved Oxygen and Ammonia-Nitrogen.

The WMS Report query "Water Management System Inspections" was run. On 08/14/2017 a Compliance Evaluation was done with No Violations noted.

The WMS "Open Violations by Client Report" was run and there are No Open Violations.

The Existing Permit expires on 12/31/21 and the renewal was submitted 6/21/21.

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-

Approve	Deny	Signatures	Date
X		Bernard Feist (signed) Bernard Feist, P.E. / Environmental Engineer	July 8, 2021
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Environmental Engineer Manager	7-9-21

Summary of Review

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>.045</u>
Latitude	<u>41° 50' 09"</u>	Longitude	<u>-75° 19' 02"</u>
Quad Name	<u>Lake Como</u>	Quad Code	<u>0443</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Equinunk Creek (HQ-CWF)</u>	Stream Code	<u>06526</u>
NHD Com ID	<u>25865126</u>	RMI	<u>1.94</u>
Drainage Area	<u>0.82 mi²</u>	Yield (cfs/mi ²)	<u>0.1</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.08 cfs</u>	Q ₇₋₁₀ Basis	<u>USGS 01430000 Dflow</u>
Elevation (ft)	<u>1508</u>	Slope (ft/ft)	<u>0.024</u>
Watershed No.	<u>1-A</u>	Chapter 93 Class.	<u>HQ-CWF</u>
Existing Use	<u>n/a</u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Attaining Use(s) aquatic life, water supply and recreation.</u>		
Cause(s) of Impairment	<u></u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u></u>	Name	<u></u>
Background/Ambient Data	Data Source		
pH (SU)	<u></u>	<u></u>	
Temperature (°F)	<u></u>	<u></u>	
Hardness (mg/L)	<u></u>	<u></u>	
Other:	<u></u>	<u></u>	
Nearest Downstream Public Water Supply Intake	<u>Easton Area Water System</u>		
PWS Waters	<u>Delaware River</u>	Flow at Intake (cfs)	<u>1105</u>
PWS RMI	<u>109.8</u>	Distance from Outfall (mi)	<u>150</u>

Changes Since Last Permit Issuance: DRBC Table C-2, E-Coli Monitoring

USGS STATION.--01430000 LACKAWAXEN RIVER NEAR HONESDALE, PA
 LOCATION.--Lat 41° 33' 43", long 75° 14' 54", Wayne County, Hydrologic Unit 02040103, on right bank at Lemnitzer Bridge (Brown Street), on U.S. Highway 6, and 1.2 mi downstream from Dyberry Creek and Honesdale.
 DRAINAGE AREA.--164 square miles.

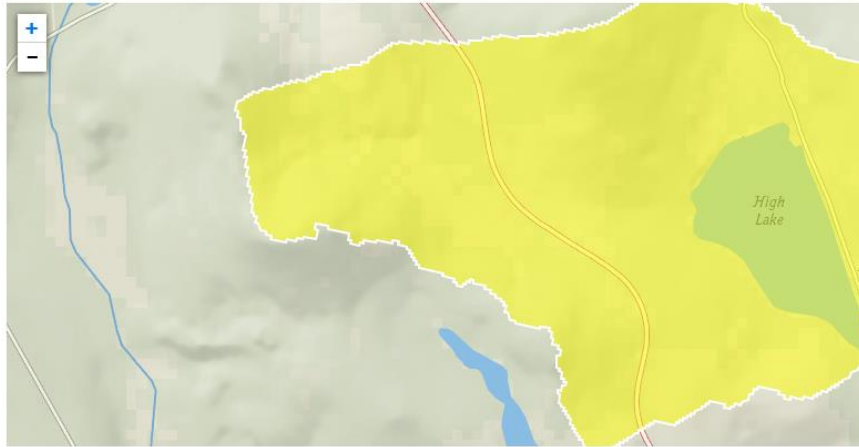
Gage	Period	Days in +	Zero/Mis+	1B3	Percentile	Excur per+	7Q10
01430000 - Lackawaxen River near Honesdale, PA	1993/04/01 - 2019/04/01	9,496	0/0	14.9	0.32%	0.81	16.2

Double-click on biological flow value for excursion analysis

Q₇₋₁₀ LowFlowYield (cfs/mi²)= 16.2/164 = 0.1

Clicked Point (Latitude, Longitude):
Time:

41.83595, -75.31724
2021-06-30 16:23:32



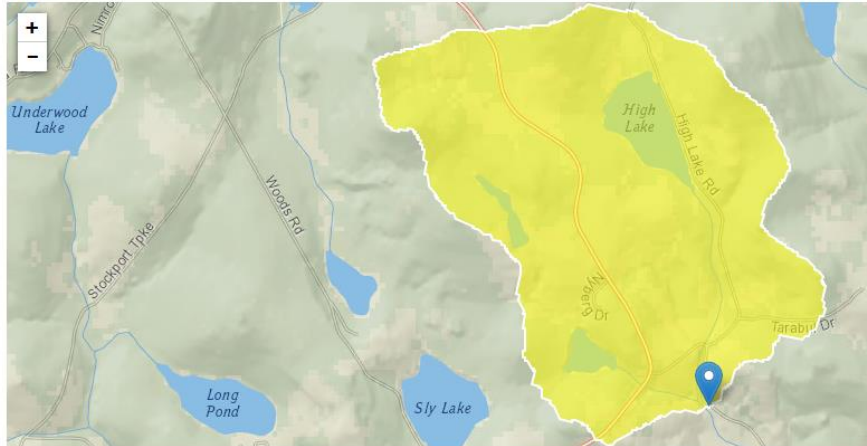
Low-Flow Statistics Parameters [Low Flow Region 5]

Parameter Code	Parameter Name	Value	Units
DRNAREA	Drainage Area	0.82	square miles

Outfall 001 RMI 1.94 - Elevation 1508 ft

Clicked Point (Latitude, Longitude):
Time:

41.82359, -75.31630
2021-06-30 16:28:24



Low-Flow Statistics Parameters [Low Flow Region 5]

Parameter Code	Parameter Name	Value	Units
DRNAREA	Drainage Area	1.86	square miles

RMI 0.0 - Elevation 1389 ft

Treatment Facility Summary

Treatment Facility Name: Camp Morasha

WQM Permit No.	Issuance Date
6616402	01/09/2017
165S4	5/24/1965

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Lagoons	Calcium Hypochlorite	0.045

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.045	90	Not Overloaded	Settled	Hauled

Other Comments:

The 90 lbs/day value above was calculated using the Domestic Wastewater Facilities Manual's design recommendation of 0.12 lb/day/cap (for camps).

Development of Effluent Limitations

Outfall No. 001 Design Flow (MGD) .045
 Latitude 41° 50' 20.80" Longitude -75° 19' 42.37"
 Wastewater Description: Sewage Effluent

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.

Technology-Based Limitations

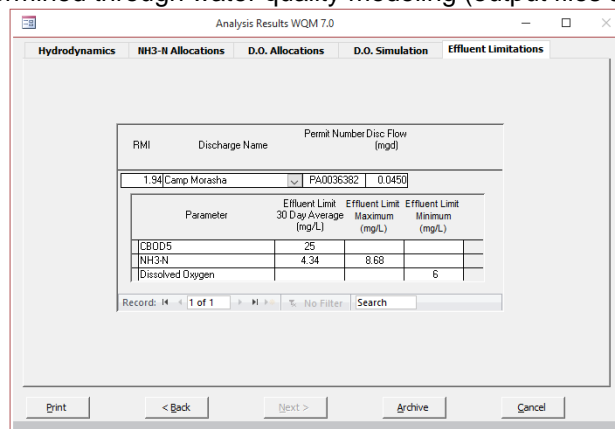
The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Parameter	Minimum	Average Monthly	Average Weekly	IMAX	Basis
Flow (MGD)	XXX	Report	Report Max Daily	XXX	§§ 92a.27, 92a.61
CBOD5 (mg/L)	XXX	25	40	50	§ 92a.47
TSS (mg/L)	XXX	30	45	60	§ 92a.47
TRC (mg/L)	XXX	0.5	XXX	1.6	§§ 92a.47-48
NH3-N (mg/L)	XXX	25	XXX	50	BPJ
D.O. (mg/L)	4	XXX	XXX	XXX	BPJ
pH (SU)	6	XXX	XXX	9	§ 92a.47, § 95.2
Total N (mg/L)	XXX	Report	XXX	XXX	§ 92a.61
Total P (mg/L)	XXX	Report	XXX	XXX	§ 92a.61
Fecal Coliform (No./100 ml) (May-Sept)	XXX	200 Geo Mean	XXX	1,000	§ 92a.47
Fecal Coliform (No./100 ml) (Oct-April)	XXX	2,000 Geo Mean	XXX	10,000	§ 92a.47
E. Coli (No./100 ml)*	XXX	XXX	XXX	Report	§ 92a.61

NOTE – 2021 update - Sewage discharges will include monitoring, at a minimum, for E. Coli, in new and reissued permits, with a monitoring frequency of 1/month for design flows >= 1 MGD, 1/quarter for design flows >= 0.05 and < 1 MGD, 1/year for design flows of 0.002 – 0.05 MGD.

Water Quality-Based Limitations

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



TRC EVALUATION					
Input appropriate values in A3:A9 and D3:D9			Coaldale		
0.08	= Q stream (cfs)		0.5	= CV Daily	
0.042	= Q discharge (MGD)		0.5	= CV Hourly	
4	= no. samples		1	= AFC_Partial Mix Factor	
0.3	= Chlorine Demand of Stream		1	= CFC_Partial Mix Factor	
0	= Chlorine Demand of Discharge		15	= AFC_Criteria Compliance Time (min)	
0.5	= BAT/BPJ Value		720	= CFC_Criteria Compliance Time (min)	
0	= % Factor of Safety (FOS)			= Decay Coefficient (K)	
Source	Reference	AFC Calculations		Reference	CFC Calculations
TRC	1.3.2.iii	WLA afc = 0.412		1.3.2.iii	WLA cfc = 0.394
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373		5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc = 0.153		5.1d	LTA_cfc = 0.229
Source	Effluent Limit Calculations				
PENTOXSD TRG	5.1f	AML MULT = 1.720			
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.264			AFC
		INST MAX LIMIT (mg/l) = 0.618			

Best Professional Judgment (BPJ) Limitations

Adding

EFFLUENT TABLE C-2: DRBC Parameters Not Included in NPDES Permit

OUTFALL 001 (UNT Equinunk Creek)		
PARAMETER	LIMIT	MONITORING
CBOD ₅ (at 20° C)	Monitor & Report Percent Removal	Monthly
CBOD ₅ (at 20° C) Influent	Monitor & Report	Monthly

Anti-Backsliding

Keeping

EFFLUENT TABLE C-1: DRBC Parameters Included in NPDES Permit

OUTFALL 001 (UNT Equinunk Creek)		
PARAMETER	LIMIT	MONITORING
pH (Standard Units)	6 to 9 at all times	As required by NPDES Permit
Total Suspended Solids	30 mg/l	As required by NPDES Permit
Dissolved Oxygen	6.0 mg/l (minimum at all times)	As required by NPDES Permit
CBOD ₅ (at 20° C)	25 mg/l	As required by NPDES Permit
Ammonia Nitrogen (5-1 to 10-31) (11-1 to 4-30)	4.2 mg/l 6.0 mg/l	As required by NPDES Permit
Fecal Coliform (5-1 to 9-30) (10-1 to 4-30)	200 colonies per 100 ml as a geo. avg. 2000 colonies per 100 ml as a geo. avg.	As required by NPDES Permit

OUTFALL 001 (UNT Equinunk Creek)		
PARAMETER	LIMIT	MONITORING
Total Dissolved Solids*	Monitor & Report*	As required by NPDES Permit
Total Phosphorous	Monitor & Report	As required by NPDES Permit
Nitrate + Nitrite as N	Monitor & Report	As required by NPDES Permit
Total Kjeldahl Nitrogen	Monitor & Report	As required by NPDES Permit
Total Nitrogen	Monitor & Report	As required by NPDES Permit

Compliance History

DMR Data for Outfall 001 (from May 1, 2020 to April 30, 2021)

Parameter	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20	JUN-20	MAY-20
Flow (MGD) Average Monthly	0.043											0.041
Flow (MGD) Daily Maximum	0.045											0.045
pH (S.U.) Minimum	7.5											7.8
pH (S.U.) Instantaneous Maximum	8.4											8.0
DO (mg/L) Minimum	6.4											6.5
TRC (mg/L) Average Monthly	< 0.02											0.37
TRC (mg/L) Instantaneous Maximum	0.04											0.80
CBOD5 (mg/L) Average Monthly	< 13.7											5.5
TSS (mg/L) Average Monthly	< 16.3											14.0
Total Dissolved Solids (mg/L) Average Quarterly											183	
Fecal Coliform (No./100 ml) Geometric Mean	< 4											< 4
Fecal Coliform (No./100 ml) Instantaneous Maximum	< 4											< 4
Nitrate-Nitrite (mg/L) Average Monthly	< 1.02											< 1.1
Total Nitrogen (mg/L) Average Monthly	< 2.17											< 2.5
Ammonia (mg/L) Average Monthly	< 0.7											< 1.0
TKN (mg/L) Average Monthly	1.15											1.4
Total Phosphorus (mg/L) Average Monthly	0.52											1.6