



Application Type

Renewal

Facility Type

Non-Municipal

Major / Minor

Minor

Application No.

PA0222275

APS ID

1082804

Authorization ID

1429992

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Applicant and Facility Information

Applicant Name	Beach Glass Estates LLC	Facility Name	Beach Glass Estates
Applicant Address	12430 Lake Road	Facility Address	12430 Lake Road
	North East, PA 16428-3545		North East, PA 16428-3545
Applicant Contact	Norman Hinspeter	Facility Contact	Norman Hinspeter
Applicant Phone	(239) 851-7663	Facility Phone	(239) 851-7663
Client ID	345213	Site ID	464589
Ch 94 Load Status	Not Overloaded	Municipality	North East Township
Connection Status	No Limitations	County	Erie
Date Application Received	March 1, 2023	EPA Waived?	Yes
Date Application Accepted		If No, Reason	
Purpose of Application	NPDES Permit renewal for an existing minor sewage facility discharge.		

Summary of Review

An application was submitted for an NPDES permit renewal for an existing minor sewage facility discharge.

E. Coli monitoring has been added to the permit.

There are currently no open violations listed for this Applicant in WMS as of 3/17/25.

The receiving waters are considered an underground, dry stream with Lake Erie as the point of first use.

Sludge use and disposal description and locations: Disposed off-site without treatment

A North East Township Act 537 Plan was update was approved on August 23, 2023 that will connect this facility to public sewers. This permit will be terminated upon connection of the facility to public sewers and decommissioning of the treatment plant. JCD

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.

Approve	Deny	Signatures	Date
X		Benjamin R. Lockwood Benjamin R. Lockwood / Environmental Engineering Specialist	March 20, 2025
		Adam Olesnanik, P.E. / Environmental Engineer Manager	Okay to Draft JCD 4/3/2025

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	.00528
Latitude	42° 15' 56.4"	Longitude	-79° 46' 11.9"
Quad Name		Quad Code	
Wastewater Description:	Sewage Effluent		

Receiving Waters	Unnamed Tributary to Lake Erie (CWF, MF)	Stream Code	62249
NHD Com ID	123926005	RMI	0.05
Drainage Area	0.88 mi ²	Yield (cfs/mi ²)	0.022
Q ₇₋₁₀ Flow (cfs)	0.0194	Q ₇₋₁₀ Basis	StreamStats
Elevation (ft)	786	Slope (ft/ft)	
Watershed No.	15-A	Chapter 93 Class.	CWF, MF
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	State of New York
PWS Waters	Lake Erie
PWS RMI	
Flow at Intake (cfs)	
Distance from Outfall (mi)	0.79

Changes Since Last Permit Issuance: None

Other Comments: None

Treatment Facility Summary				
Treatment Facility Name: Lakeview Estate STP				
WQM Permit No.		Issuance Date		
2591418		November 17, 1997		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Geoform/trickling filter	Ultraviolet	0.00528
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.00528	10.9	Not Overloaded		

Changes Since Last Permit Issuance: The existing 0.00528 MGD treatment system was permitted in 1997, and consists of wastewater flow to septic tank, rotating Geoform Air adding tanks, clarifier with alum addition for phosphorus control, ultraviolet light disinfection, and Outfall 001 to unnamed tributary to Lake Erie.

Compliance History

DMR Data for Outfall 001 (from February 1, 2024 to January 31, 2025)

Parameter	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24
Flow (MGD) Average Monthly	0.0001	0.0001	0.0001	0.0001	0.001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
pH (S.U.) Instantaneous Minimum	7.3	7.5	7.2	6.9	6.9	7.0	7.4	7.0	7.2	7.1	7.3	7.2
pH (S.U.) Instantaneous Maximum	7.3	7.5	7.2	6.9	6.9	7.0	7.4	7.0	7.2	7.1	7.3	7.2
DO (mg/L) Instantaneous Minimum	7.9	10.2	8.2	7.4	7.2	6.5	7.6	6.2	7.1	6.3	5.9	7.3
CBOD5 (mg/L) Average Monthly	< 3.0	4.0	< 2.0	< 2.4	< 2.4	< 2.4	< 3.0	2.0	< 2.4	< 2.4	< 2.4	2.4
TSS (mg/L) Average Monthly	3.0	5.0	2.5	< 2.5	7.5	4.0	4.4	4.0	< 2.5	2.5	< 2.5	< 2.5
Fecal Coliform (No./100 ml) Geometric Mean	1	2.0	< 1.0	2420	2.0	10.9	12.2	< 1	1.0	< 1	1	8.5
Total Nitrogen (mg/L) Average Monthly	4.834	5.523	< 6.122	< 3.776	< 5.773	< 5.124	< 12.9	4.183	< 5.916	7.469	1.594	2.1756
Ammonia (mg/L) Average Monthly	< 0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1	< 0.1	0.1	0.18
Total Phosphorus (mg/L) Average Monthly	0.5	0.4	0.5	0.6	0.5	0.5	0.9	0.5	0.2	0.6	0.2	0.2

Development of Effluent Limitations

Outfall No. 001
Latitude 42° 15' 56.4"
Wastewater Description: Sewage Effluent

Design Flow (MGD) .00528
Longitude -79° 46' 11.9"

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)
DO	4 – mg/L			
E. Coli	Report	IMAX		92a.61

Comments: A minimum DO limit of 4.0 mg/l is applied based on BPJ per DEP's SOP BCW-PMT-033.

Weekly average CBOD₅ and TSS limits are not applicable to non-POTW discharges.

E. Coli monitoring has been added per Chapter 92 requirements.

Water Quality-Based Limitations

This facility discharges to a channelized dry underground stream; the point of first use is Lake Erie. No water quality based analysis will be performed; this is consistent with the previous fact sheet. Nitrogen and Phosphorus monitoring are required per DEP's SOP, and the existing Phosphorus limit from the existing permit will be retained.

Best Professional Judgment (BPJ) Limitations

Comments: Ultraviolet light monitoring reporting in the existing NPDES permit consists of 1/day visual inspections. This was included due to the fact that this is a very small treatment facility and electric monitoring costs are excessive. This recommendation of a daily visual inspection for UV will be continued; this is not provided as an option in WMS.

Anti-Backsliding

Pursuant to 40 CFR § 122.44(l)(1), all proposed permit requirements addressed in this fact sheet are at least as stringent as the requirements implemented in the existing NPDES permit.

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" (386-0400-001), 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	XXX	XXX	XXX	XXX	XXX	1/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
DO	XXX	XXX	4.0 Inst Min	XXX	XXX	XXX	1/month	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50.0	1/month	8-Hr Composite
TSS	XXX	XXX	XXX	30.0	XXX	60.0	1/month	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite
Ammonia	XXX	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	1.0	XXX	XXX	1/month	8-Hr Composite
Ultraviolet Light	XXX	XXX	XXX	Report	XXX	XXX	1/day	Visual

Compliance Sampling Location: Outfall 001 after disinfection

Other Comments: None