

Application Type

Renewal

Facility Type

Non-Municipal

Major / Minor

Minor

Application No.

PA0043206

APS ID

621604

Authorization ID

1467568
**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

| Applicant and Facility Information | | | |
|------------------------------------|--|------------------|--|
| Applicant Name | <u>Trails End Camp Inc.</u> | Facility Name | <u>Trails End Camp</u> |
| Applicant Address | <u>1714 Wantagh Avenue</u> <u>Wantagh, NY 11793-3904</u> | Facility Address | <u>230 Trails End Road</u> <u>Honesdale, PA 18405</u> |
| Applicant Contact | <u>Marc Honigfeld</u> | Facility Contact | <u>David Liptak</u> |
| Applicant Phone | <u>(516) 781-5200</u> | Facility Phone | <u>(570) 729-7111</u> |
| Client ID | <u>44188</u> | Site ID | <u>260499</u> |
| Ch 94 Load Status | <u>Not Overloaded</u> | Municipality | <u>Berlin Township</u> |
| Connection Status | | County | <u>Wayne</u> |
| Date Application Received | <u>December 4, 2023</u> | EPA Waived? | <u>Yes</u> |
| Date Application Accepted | <u>December 4, 2023</u> | If No, Reason | |
| Purpose of Application | <u>Renewal of NPDES permit to discharge treated sewage effluent.</u> | | |

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.03 MGD of treated sewage into an Tributary 06190 to Beach Lake, a High-Quality, Cold-Water Fishes, Migratory Fish (HQ, CWF) receiving stream in State Water Plan Basin 1-A (Shehawken - Rattlesnake Creeks). Per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than the 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.

The system is individual septic systems that flow to an SBR aeration tank with bubble aeration that has two blowers for air supply and then used chlorine contact for disinfection.

Three chemicals are added in the treatment process: Sodium Hypochlorite for disinfection, ferric chloride for phosphorus removal, and soda ash for alkalinity addition.

There are no representative stream gages in the vicinity of the outfall. The state-wide default low flow yield (LFY) of 0.1 cfs/mi² was used to model the discharge. RMI values were obtained using the Department's eMapPA, drainage areas were delineated using USGS's StreamStats interactive map, and elevations were obtained using the elevation profile tool on StreamStats.

Due to the proximity of Beach Lake from Outfall 001, the second point used for modeling inputs was the outlet of Beach Lake to Beach Lake Creek, which resides on the most eastern side of the lake. This was the recommendation of the previous permit writer for this facility and previous permit fact sheet.

Modeling for Ammonia-Nitrogen and TRC did not recommend more stringent limits. Limitations from the previous permit will be carried over.

| Approve | Deny | Signatures | Date |
|---------|------|---|-----------------|
| X | | William Hon William Hon / Environmental Engineer Specialist | October 8, 2024 |
| X | | Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager | 10-11-24 |

Summary of Review

Limitations for pH and Fecal Coliform are technology-based and carried over from the previous permit. Limitations for CBOD₅ and Total Suspended Solids (TSS) are water quality-based and carried over from the previous permit. A technology-based limitation for Dissolved Oxygen has been added to this permit. Sampling for Total Nitrogen, Total Kjeldahl Nitrogen, and Nitrate+Nitrite-Nitrogen is also carried over from previous permit at the same monitoring frequencies.

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 2.0 mg/L average monthly and 4.0 mg/L IMAX Total Phosphorus limitations are carried over from the previous permit and were the result of a lake survey (see attached) that found Beach Lake to be eutrophic. The limitations are in accordance with DEP's Phosphorus Control Decision Matrix, found in DEP's Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments (doc. no. 391-2000-010).

E. Coli monitoring requirements will be introduced into new permit according to PA DEP policy for individual sewage effluent limitations. E. Coli requirements for a treatment plant with less than .05mgd discharge is found in the SOP for establishing effluent limitations for individual sewage.

Application indicated 0 dry tons of sludge is hauled from this facility. Previous fact sheet for this facility indicated sludge was hauled by Koberlein Environmental Services for land application. Sludge reporting will be included in this permit.

The existing permit expired on 8/31/2024 and the application for renewal was received on time. A Water Management System Inspection query was performed and indicated that on 8/20/2022 a compliance evaluation was performed with No Violations Noted. There are no open violations for this client that could warrant withholding issuance of this permit.

Recommend approval.

Modeling Inputs:

Pt 1 @ Outfall 001

RMI: .99

Stream: 6190

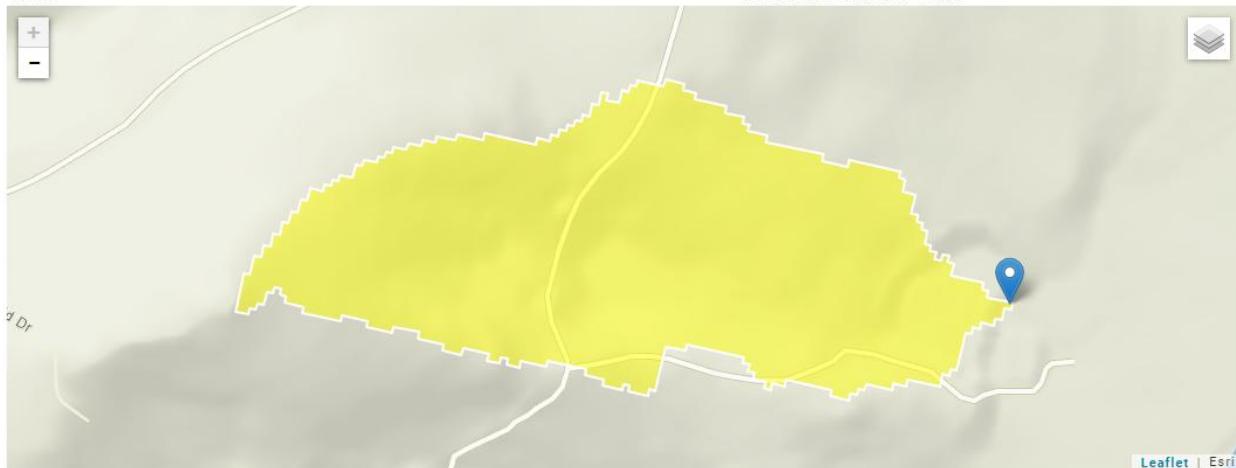
Summary of Review

Clicked Point (Latitude, Longitude):

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Time:

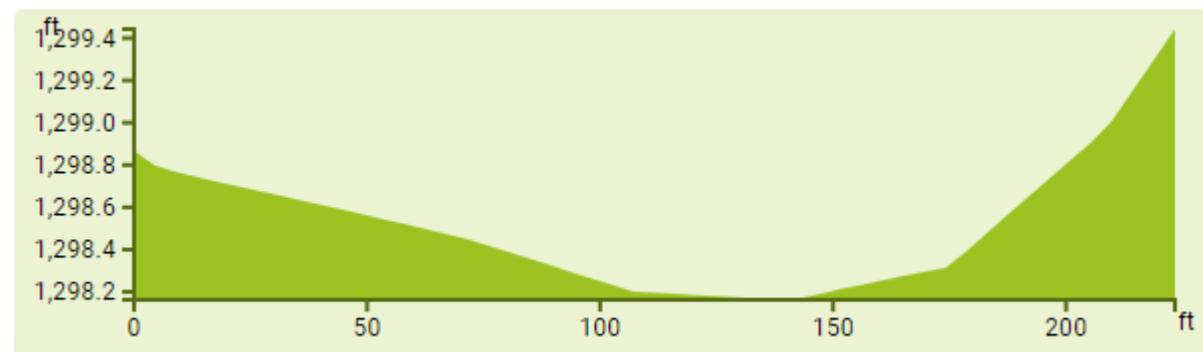
2024-09-25 16:05:37 -0400



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» Basin Characteristics

| Parameter Code | Parameter Description | Value | Unit |
|------------------------|---|---------|--------------|
| DRNAREA | Area that drains to a point on a stream | 0.13 | square miles |
| 7 Day 2 Year Low Flow | | 0.00572 | ft^3/s |
| 30 Day 2 Year Low Flow | | 0.00942 | ft^3/s |
| 7 Day 10 Year Low Flow | | 0.00125 | ft^3/s |



Pt2 @ Outfall of Beach Lake

RMI: .01

Summary of Review

Clicked Point (Latitude, Longitude):

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2024-09-25 16:15:39 -0400

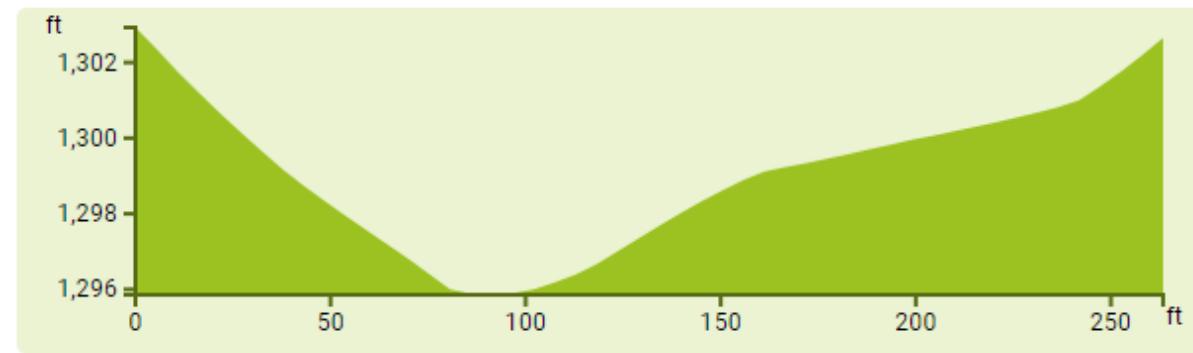
Time:



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Basin Characteristics

| Parameter Code | Parameter Description | Value | Unit |
|------------------------|---|--------|--------------|
| DRNAREA | Area that drains to a point on a stream | 1.95 | square miles |
| 7 Day 2 Year Low Flow | | 0.0826 | ft^3/s |
| 30 Day 2 Year Low Flow | | 0.13 | ft^3/s |
| 7 Day 10 Year Low Flow | | 0.0217 | ft^3/s |



Summary of Review

Analysis Results WQM 7.0

| Hydrodynamics | NH3-N Allocations | D.O. Allocations | D.O. Simulation | Effluent Limitations | | | | | | | | | | | | | | | | |
|--|--|-------------------------------------|-------------------------------------|----------------------|-----------|--|-------------------------------------|-------------------------------------|-------|----|--|--|-------|------|-------|--|------------------|--|--|---|
| RMI | Discharge Name | Permit Number Disc Flow (mgd) | | | | | | | | | | | | | | | | | | |
| 0.99 | Trails End | PA0043206 | 0.0300 | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Parameter</th> <th>Effluent Limit 30 Day Average (mg/L)</th> <th>Effluent Limit Maximum (mg/L)</th> <th>Effluent Limit Minimum (mg/L)</th> </tr> </thead> <tbody> <tr> <td>CBOD5</td> <td>25</td> <td></td> <td></td> </tr> <tr> <td>NH3-N</td> <td>6.83</td> <td>13.66</td> <td></td> </tr> <tr> <td>Dissolved Oxygen</td> <td></td> <td></td> <td>5</td> </tr> </tbody> </table> | | | | | Parameter | Effluent Limit 30 Day Average (mg/L) | Effluent Limit Maximum (mg/L) | Effluent Limit Minimum (mg/L) | CBOD5 | 25 | | | NH3-N | 6.83 | 13.66 | | Dissolved Oxygen | | | 5 |
| Parameter | Effluent Limit 30 Day Average (mg/L) | Effluent Limit Maximum (mg/L) | Effluent Limit Minimum (mg/L) | | | | | | | | | | | | | | | | | |
| CBOD5 | 25 | | | | | | | | | | | | | | | | | | | |
| NH3-N | 6.83 | 13.66 | | | | | | | | | | | | | | | | | | |
| Dissolved Oxygen | | | 5 | | | | | | | | | | | | | | | | | |
| Record: 14 1 of 1 < Back Next > No Filter Search | | | | | | | | | | | | | | | | | | | | |

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TRC EVALUATION

Input appropriate values in A3:A9 and D3:D9

| | | | |
|------|--------------------------------|-----|--------------------------------------|
| 0.1 | = Q stream (cfs) | 0.5 | = CV Daily |
| 0.03 | = Q discharge (MGD) | 0.5 | = CV Hourly |
| 30 | = 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 = 0.706 | 1.3.2.iii | WLA_cfc = 0.681 |
| PENTOXSD TRG | 5.1a | LTAMULT_afc = 0.373 | 5.1c | LTAMULT_cfc = 0.581 |
| PENTOXSD TRG | 5.1b | LTA_afc= 0.263 | 5.1d | LTA_cfc = 0.396 |

| Effluent Limit Calculations | | | | |
|-----------------------------|------|-------------------------------|-----|--|
| PENTOXSD TRG | 5.1f | AML MULT = 1.231 | | |
| PENTOXSD TRG | 5.1g | AVG MON LIMIT (mg/l) = 0.324 | AFC | |
| | | INST MAX LIMIT (mg/l) = 1.060 | | |

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-

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.

| Approve | Deny | Signatures | Date |
|---------|------|---|-----------------|
| X | | William Hon William Hon / Environmental Engineer Specialist | October 8, 2024 |
| X | | Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager | 10-11-24 |