

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0061441
 APS ID 628762
 Authorization ID 1439742

Applicant and Facility Information

| | | | |
|---------------------------|---|------------------|---|
| Applicant Name | <u>Freeman's Mobile Home Park</u> | Facility Name | <u>Freeman's Mobile Home Park WWTP</u> |
| Applicant Address | <u>295 Freeman Lane</u> <u>Monroe Township, PA 18612</u> | Facility Address | <u>Freeman Mobile Home Park</u> <u>Monroe Township, PA 18612</u> |
| Applicant Contact | <u>Brian Freeman</u> | Facility Contact | <u>Brian Freeman</u> |
| Applicant Phone | <u>(570) 406-4128</u> | Facility Phone | <u>(570) 406-4128</u> |
| Client ID | <u>27652</u> | Site ID | <u>253700</u> |
| Ch 94 Load Status | <u>Not Overloaded</u> | Municipality | <u>Monroe Township</u> |
| Connection Status | <u>No Limitations</u> | County | <u>Wyoming</u> |
| Date Application Received | <u>March 29, 2023</u> | EPA Waived? | <u>Yes</u> |
| Date Application Accepted | <u>March 13, 2024</u> | If No, Reason | <u>-</u> |
| Purpose of Application | <u>Renewal of NPDES permit.</u> | | |

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.0045 MGD of treated sewage to Leonard Creek, a High-Quality, Cold-Water and Migratory Fish (HQ-CWF, MF) designated receiving stream in State Water Plan Basin 4-G (Mehoopany-Bowman 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 designated as a naturally reproducing trout stream as per PA Fish & Boat Commission. This discharge is not expected to affect public water supplies.

Based on information from previous renewals, effluent samples are taken at the point of discharge from the treatment plant. Flow is then pumped westward to a dry tributary, which then flows westward to Leonard Creek.

All limitations from the previously issued permit are carried over in this renewal and are summarized at the end of the fact sheet. Yearly monitoring/reporting requirements for Total Nitrogen, Total Kjeldahl Nitrogen, Nitrate-Nitrite as N and Total Phosphorus are carried over from the previous permit. Yearly 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 (Document No. 362-0400-001).

Modeling the discharge with WQM 7.0 and the TRC Calculation spreadsheet didn't recommend more stringent limitations. As with the previous renewals, stream gage 1537000 (Toby Creek at Luzerne, PA) was used as a reference gage to develop the low flow yield (LFY) 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.

| Approve | Deny | Signatures | Date |
|---------|------|---|-------------------|
| X | |  Brian Burden, E.I.T. / Project Manager | November 25, 2024 |
| X | | Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager | 12-2-24 |

Summary of Review

As per the permittee's most recent Biosolids Production and Disposal supplemental DMR form, sludge is hauled to Wyoming Valley Sanitary Authority in Hanover Township, PA by Drain Tech.



WQM
Modeling.pdf



TRC Calculation.pdf



Watershed
Information.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.

| Discharge, Receiving Waters and Water Supply Information | | | |
|--|---|------------------------------|----------------------------|
| Outfall No. | <u>001</u> | Design Flow (MGD) | <u>0.0045</u> |
| Latitude | <u>41° 24' 2.5"</u> | Longitude | <u>-75° 58' 59.5"</u> |
| Quad Name | <u>Center Moreland</u> | Quad Code | <u>0738</u> |
| Wastewater Description: <u>Sewage Effluent</u> | | | |
| Receiving Waters | <u>Leonard Creek</u> | Stream Code | <u>28734</u> |
| NHD Com ID | <u>66410339</u> | RMI | <u>3.85</u> |
| Drainage Area | <u>10.7 mi²</u> | Yield (cfs/mi ²) | <u>0.06</u> |
| Q ₇₋₁₀ Flow (cfs) | <u>0.64</u> | Q ₇₋₁₀ Basis | <u>Stream Gage 1537000</u> |
| Elevation (ft) | <u>1,012</u> | Slope (ft/ft) | <u>0.0077</u> |
| Watershed No. | <u>4-G</u> | Chapter 93 Class. | <u>HQ-CWF, MF</u> |
| Existing Use | <u>-</u> | Existing Use Qualifier | <u>-</u> |
| Exceptions to Use | <u>-</u> | Exceptions to Criteria | <u>-</u> |
| Assessment Status | <u>Attaining Use(s)</u> | | |
| Cause(s) of Impairment | <u>-</u> | | |
| Source(s) of Impairment | <u>-</u> | | |
| TMDL Status | <u>-</u> | Name | <u>-</u> |
| Nearest Downstream Public Water Supply Intake | <u>Danville Borough Water Authority</u> | | |
| PWS Waters | <u>Susquehanna River</u> | Flow at Intake (cfs) | <u>691</u> |
| PWS RMI | <u>122.58</u> | Distance from Outfall (mi) | <u>~95</u> |

| Treatment Facility Summary | | | | |
|---|----------------------------|-------------------|---------------------|------------------------|
| Treatment Facility Name: Freeman's MHP | | | | |
| Waste Type | Degree of Treatment | Process Type | Disinfection | Avg Annual Flow (MGD) |
| Sewage | Secondary | Extended Aeration | Hypochlorite | 0.0045 |
| Hydraulic Capacity (MGD) | Organic Capacity (lbs/day) | Load Status | Biosolids Treatment | Biosolids Use/Disposal |
| 0.0045 | 11 | Not Overloaded | Holding Tank | Hauled |

Development of Effluent Limitations

| | |
|--|---------------------------------|
| Outfall No. 001 | Design Flow (MGD) 0.0045 |
| Latitude 41° 24' 2.5" | Longitude -75° 58' 59.5" |
| 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) |
| Total Residual Chlorine | 0.5 | Average Monthly | - | 92a.48(b)(2) |
| | 1.6 | IMAX | - | - |

Water Quality-Based and BPJ Limitations

| Parameter | Limit (mg/l) | SBC | Model / Basis |
|------------------|--------------|-----------------|---------------|
| Dissolved Oxygen | 5.0 | Minimum | BPJ |
| Ammonia-N | 25.0 | Average Monthly | BPJ |
| | 50.0 | IMAX | |

Anti-Backsliding

No limitations were removed from the permit or made less stringent.



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| Approve | Deny | Signatures | Date |
|---------|------|---|-------------------|
| X | |  Brian Burden, E.I.T. / Project Manager | November 25, 2024 |
| X | | Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager | 12-2-24 |