

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. **PA0060887**
APS ID **915812**
Authorization ID **1464177**

Applicant and Facility Information

| | | | |
|---------------------------|--|------------------|---|
| Applicant Name | <u>Independence Drive Assoc LP</u> | Facility Name | <u>Mugg's Country Kitchen-Lakeview True Value Hardware</u> |
| Applicant Address | <u>PO Box 392</u> | Facility Address | <u>116 Meadowbrook Road</u> |
| | <u>Milford, PA 18337-0392</u> | | <u>Tafton, PA 18464-9621</u> |
| Applicant Contact | <u>Penny Luhrs</u> | Facility Contact | <u>Brian Schan</u> |
| Applicant Phone | <u>(914) 443-5727</u> | Facility Phone | <u>(570) 470-3289</u> |
| Client ID | <u>328289</u> | Site ID | <u>3772</u> |
| Ch 94 Load Status | <u>Not Overloaded</u> | Municipality | <u>Palmyra Township</u> |
| Connection Status | | County | <u>Pike</u> |
| Date Application Received | <u>November 16, 2023</u> | EPA Waived? | <u>Yes</u> |
| Date Application Accepted | <u>January 10, 2024</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 renewal of an NPDES permit to discharge 0.007 MGD of treated sewage to Decker Creek, a HQ-CWF/MF designated receiving stream in state water plan basin 01-B (Lackawaxen River). 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. The receiving stream is considered a naturally reproducing wild trout stream (from headwaters downstream to mouth) as per the PA Fish and Boat Commission.

Previous permits listed the receiving stream as an Unnamed Tributary to Decker Creek. PA DEP's eMapPA shows that Outfall 001 is located in the headwaters of Decker Creek.

Due to the small drainage area of approximately 0.35 mi², there is no representative stream gage to obtain a low flow yield (LFY) from. The default LFY of 0.1 cfs/mi² was used to model the discharge. For modeling inputs, RMI values were obtained using the "PA Historic Streams" feature of eMapPA as well as the "measure" tool. Drainage areas were delineated using USGS's StreamStats Interactive Map and elevations were obtained using the elevation profile feature of StreamStats (see Watershed Information attachment). Q₇₋₁₀ for modeling purposes was determined to be .035cfs due to drainage area.

Limitations for pH, Fecal Coliform and TSS are technology-based and are carried over from the previous permit. Limitations for DO, TRC, CBOD₅ and Ammonia-Nitrogen are water quality-based and carried over from the previous permit. WQM modeling (attached) did not recommend more stringent limitations.

Quarterly monitoring and reporting is carried over to the permit for Total Phosphorus and Total Nitrogen to monitor nutrient loading values. To calculate Total Nitrogen, quarterly monitoring and reporting is added to the permit for Total Kjeldahl Nitrogen and Nitrate+Nitrite-Nitrogen.

| Approve | Deny | Signatures | Date |
|---------|------|---|------------------|
| X | | William Hon (s) William Hon / Environmental Engineer Specialist | October 10, 2024 |
| X | | Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager | 10-21-24 |

Summary of Review

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.

Previous permit renewal fact sheet indicated a concern for implementing stricter TSS and COBD₅ limitations due to discharging to an intermittent or ephemeral stream, with a reference to the Department's *Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers* (doc. no. 391-2000-014). The previous permit did not implement stricter limitations and that will be carried through this permit renewal.

There is no approved DRBC docket for this facility according to the DRBC arcgis map.

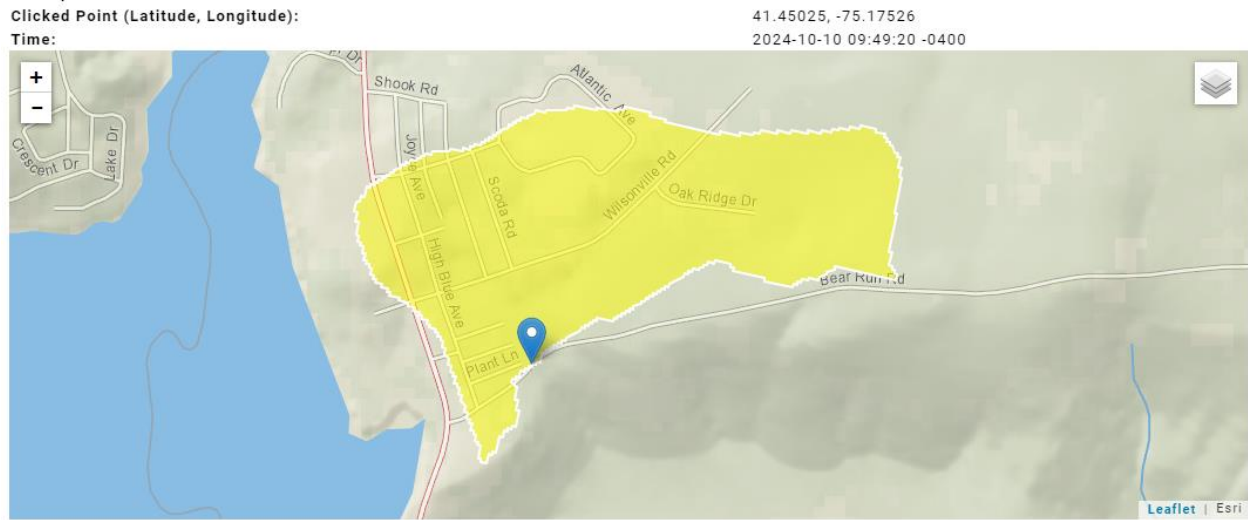
Application indicated 0 dry tons of sludge is hauled from this facility. Previous fact sheet for this facility indicated sludge was hauled by Koberlein Environmental Services for land application. Sludge reporting will be included in this permit.

The facility has not had an DMR non-compliance violation since 2021.

The previous permit expired on 2/29/2024 and the application for permit renewal was received on time, but incomplete and was initially returned in December of 2023. Permittee submitted a revised application in a timely manner and was deemed by the DEP as complete. The last inspection held at this facility occurred on 10/28/2021 and was a compliance evaluation which resulted in 0 NOVs. There are currently no open violations that would withhold the issuance of this permit renewal.

Recommend Approval.

Modeling Inputs:
Pt1: Outfall 001
Decker Creek Code: 61696
RMI: 5.19



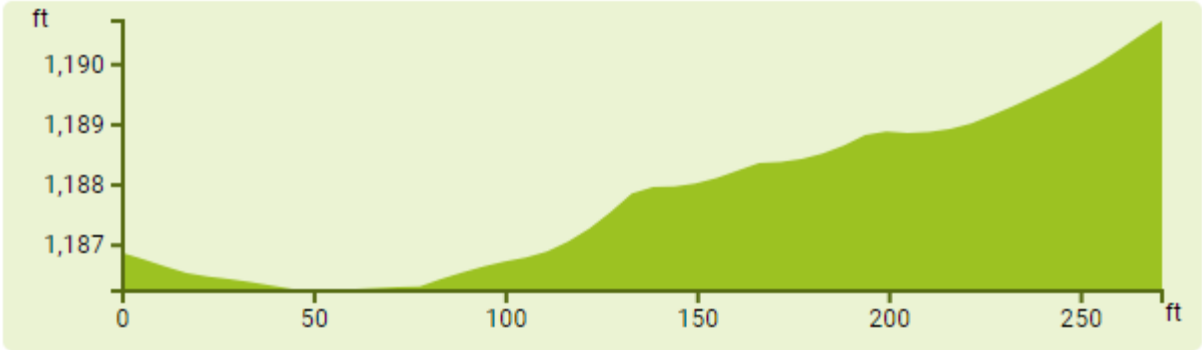
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> Basin Characteristics

| Parameter Code | Parameter Description | Value | Unit |
|----------------|---|-------|--------------|
| DRNAREA | Area that drains to a point on a stream | 0.35 | square miles |

Summary of Review

| Statistic | Value | Unit |
|------------------------|---------|--------|
| 7 Day 2 Year Low Flow | 0.0128 | ft^3/s |
| 30 Day 2 Year Low Flow | 0.0209 | ft^3/s |
| 7 Day 10 Year Low Flow | 0.00288 | ft^3/s |



PT2 @ Outlet of Decker Pond
RMI: 3.700

Clicked Point (Latitude, Longitude): 41.43996, -75.15814
Time: 2024-10-10 09:51:57 -0400

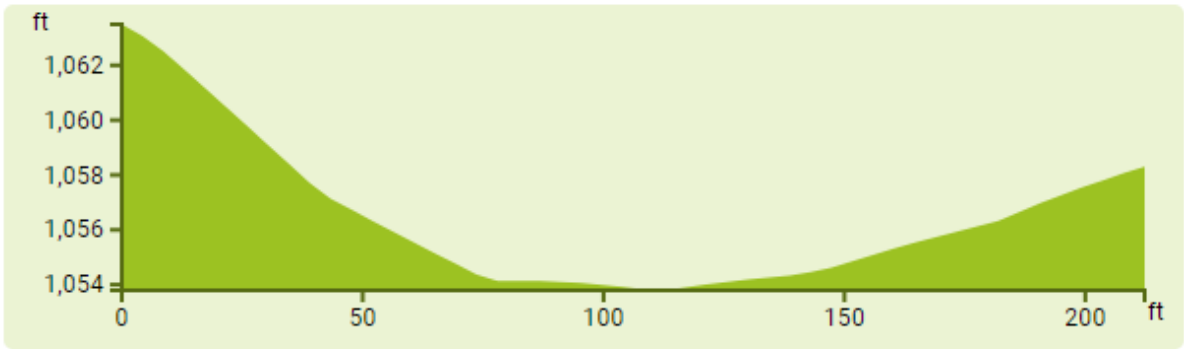


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> Basin Characteristics

| Parameter Code | Parameter Description | Value | Unit |
|------------------------|---|--------|--------------|
| DRNAREA | Area that drains to a point on a stream | 1.32 | square miles |
| 7 Day 2 Year Low Flow | | 0.0627 | ft^3/s |
| 30 Day 2 Year Low Flow | | 0.0981 | ft^3/s |
| 7 Day 10 Year Low Flow | | 0.0166 | 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) |
| 5.19 | Muggs | PA0060887 | 0.0070 |

| Parameter | Effluent Limit 30 Day Average (mg/L) | Effluent Limit Maximum (mg/L) | Effluent Limit Minimum (mg/L) |
|------------------|--|-------------------------------------|-------------------------------------|
| CBOD5 | 25 | | |
| NH3-N | 9.59 | 19.18 | |
| Dissolved Oxygen | | | 3 |

Record: 1 of 1

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Summary of Review

| TRC EVALUATION | | | | | |
|---|--------------------------------|-------------------------------|--------------------------------------|-----------|---------------------|
| Input appropriate values in A3:A9 and D3:D9 | | | | | |
| 0.035 | = Q stream (cfs) | 0.5 | = CV Daily | | |
| 0.007 | = 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 = 1.050 | | 1.3.2.iii | WLA cfc = 1.016 |
| PENTOXSD TRG | 5.1a | LTAMULT afc = 0.373 | | 5.1c | LTAMULT cfc = 0.581 |
| PENTOXSD TRG | 5.1b | LTA_afc= 0.391 | | 5.1d | LTA_cfc = 0.591 |
| Source | Effluent Limit Calculations | | | | |
| PENTOXSD TRG | 5.1f | AML MULT = 1.231 | | | |
| PENTOXSD TRG | 5.1g | AVG MON LIMIT (mg/l) = 0.482 | | AFC | |
| | | INST MAX LIMIT (mg/l) = 1.575 | | | |

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 | | William Hon (s) William Hon / Environmental Engineer Specialist | October 10, 2024 |
| X | | Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager | 10-21-24 |