



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES

COOKEVILLE ENVIRONMENTAL FIELD OFFICE
1221 SOUTH WILLOW AVENUE
COOKEVILLE, TN 38506

PHONE 931-520-6688 STATEWIDE 1-888-891-8332 FAX 931-432-6952

June 26, 2024

Mr. Jack Davis, General Manager
South Cumberland Utility District
139 Utility Drive
Crossville, TN 38572

Re: Compliance Evaluation Inspection
State Operating Permit No. SOP-07033
South Cumberland Utility District
Mountain Vista Estates
Crossville, Cumberland County, Tennessee

Dear Mr. Jack Davis,

On June 25, 2024, Division of Water Resources personnel conducted a Compliance Evaluation Inspection for SOP-07033 associated with the facility at latitude 35.858333 longitude -84.976944. The purpose of the inspection was to evaluate compliance with the State Operating Permit for the operation, maintenance, and reporting requirements of the permit.

The coverage under Permit No. SOP-07033 became effective March 1, 2023, and will expire February 29, 2028. Currently the permit has requirements for the monthly operation reports to be submitted to the Cookeville Environmental Field Office quarterly. The permittee is not authorized to discharge after the expiration date of this permit. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit such information and forms as are required to the Director of Water Resources (the "Director") no

later than 180 days prior to the expiration date. This letter serves as a Compliance Evaluation Inspection report.

Facility Review

The Mountain Vista Estates Wastewater Treatment Facility in Cumberland County, Tennessee includes septic tanks, collection system, recirculating media filter, ultraviolet disinfection and fenced drip irrigation system. The design capacity of the system is .0465 MGD. At the time of inspection, the facility appeared to be well maintained and in good operating condition.

The recirculating media filters and UV disinfection appeared well maintained and in good operational condition. The drip irrigation field was also well maintained with no areas of it being overgrown. There was no evidence of ponding or other failures present within the drip field.

The indexing valve was recently cleaned and any debris removed and this appears to have helped with the ponding issues that were present in January of 2024. Replacing the indexing valve was also discussed and if/when this is done the problematic drip field zone will be cut off from the supply line. This will decrease the design capacity of the system and has already been discussed pertaining to the second phase of the subdivision having a decreased number of lots.

Reporting

Through the first quarter of 2022, the flow for the facility was low enough the tank was being pumped regularly and the treatment units were not being used. Since the second quarter of 2022, the treatment units and drip field have been utilized and the monthly operating reports submitted have reflected this. The monitoring reports submitted quarterly for the facility have been mailed directly to the Cookeville Environmental Field Office, and the operator has been asked to continue this practice. For each quarter, the average daily flow, Ammonia as N, and BOD₅ have been reported as per the requirements set in the permit.

Recommended Actions

- Install a flowmeter to get a more accurate average daily flow as more houses are put onto the system.
- Check and clean any spray nozzles in the recirculating media filters to ensure proper distribution of effluent.
- Consider getting a small shed/building to put on site of the facility to have all extra parts and bulbs on site as well as somewhere to keep all inspection logs available on site.

We extend our thanks to Mr. Jack Davis, Mr. Robert Selby, and Mr. Bob Tays for their time and courtesy during the inspection. If there are any questions concerning this correspondence, please notify Angelle Conatser at 931-952-8081 or via email at angelle.conatser@tn.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brad Ulmer", with a large, stylized flourish at the end.

Brad Ulmer
Environmental Field Office Manager
Division of Water Resources
Cookeville Environmental Field Office

Cc: DWR EFO File (Cumberland Co.)
Mr. Jack Davis – j.davis@scudtn.com