

**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:)
)
 Electronic Application of)
 Bluegrass Water Utility Operating)
 Company, LLC for a Certificate of)
 Public Convenience and Necessity for the) **Case No. 2024-00170**
 Installation of a Drain Field at the)
 Marshall Ridge System or an Order)
 Declaring the Installation is an Extension in)
 the Ordinary Course of Business)

**BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC’S
SUPPLEMENTAL RESPONSE TO COMMISSION STAFF’S SECOND REQUEST FOR
INFORMATION**

Bluegrass Water Utility Operating Company, LLC (“Bluegrass Water” or the “Company”), by counsel, files its supplemental response to Commission Staff’s Second Request for Information, issued in the above-captioned case on October 3, 2024 and for which it filed its original responses on October 18, 2024.

FILED: November 8, 2024

ELECTRONIC APPLICATION OF BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC FOR A
CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY FOR THE INSTALLATION OF A DRAIN FIELD AT
THE MARSHALL RIDGE SYSTEM OR AN ORDER DECLARING THE INSTALLATION IS AN EXTENSION IN THE
ORDINARY COURSE OF BUSINESS

CASE NO. 2024-00170

BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC'S SUPPLEMENTAL RESPONSE TO THE
COMMISSION STAFF'S SECOND REQUESTS FOR INFORMATION

**REQUEST NO. 2-1: Refer to Application, page 44 and Bluegrass Water's Response
to Commission Staff's First Request for Information (Staff's First Request), Item 4(c).**

**a. Provide any engineering reports or other documents used to calculate
the cost of the proposed project or determine the need for the project.**

RESPONSE:

a. Bluegrass Water has requested a PE reviewed document that explains the itemized costs and evaluations that were incorporated into its cost estimates. Bluegrass Water will supplement this response with said document when it becomes available.

SUPPLEMENTAL RESPONSE:

a. In its initial response, Bluegrass Water stated that it would supplement its response with a PE-reviewed document that explains the itemized costs and evaluations that were incorporated into its cost estimates for the project. Please see the attached supporting document entitled "Marshall Ridge Drainfield Cost Estimate Letter 10-18-2024." This document, prepared by Bluegrass Water's engineering consultant 21 Design Group, provides an explanation of the basis of the itemized costs of the proposed project.

Witness: Jake Freeman

DR 2-1(a)
Marshall Ridge Drainfield
Cost Estimate Letter

October 18, 2024

RE: Marshall Ridge CPCN Application

On behalf of the Bluegrass Water Utility Operating Company, we are submitting this letter regarding the new drain field cost estimate for the Marshall Ridge WWTF located in McCracken County, Kentucky near Paducah.

The estimates that have been put together have been done through our best engineering judgment as described by the following points in this letter. While these numbers are preliminary and can have variances when constructed, we believe the numbers to be an accurate estimate as we have used similar project costs and current market value pricing in our rates. It should be noted that this estimate assumes that the drain field will be replaced in-kind. If additional requirements and modifications are to be made to the original drain field design, the estimate would need to be re-evaluated.

1) **Piping/Drain field Improvements**

- a. **Drain to Disposal Area:** This item in the cost estimate includes the new piping penetration to the lagoon and piping/materials that would be required to convey flow from the existing lagoon ponds to the new location of field "A" and field "B" of the drain field.
- b. **Field "A" Perforated Pipe:** This portion of the estimate is inclusive of all equipment and labor requirements based on the number of hours anticipated to install the total 952 LF of perforated pipe. The estimated number also includes the cost of the piping material. It also includes the cost to backfill and seed and straw the excavation for the piping.
- c. **Field "B" Perforated Pipe:** This portion of the estimate is inclusive of all equipment and labor requirements based on the number of hours anticipated to install the total 1000' of perforated pipe. The estimated number also includes the cost of the piping material. It also includes the cost to backfill and seed and straw the excavation for the piping.
- d. **Manifolds, Valving, and Clean Rock:** The manifolds of this section are inclusive of all piping and connections from the drain field feed line through the valving before the water is conveyed through the laterals of each field. The valving portion includes the 10 distribution boxes and valving required for each lateral. Clean rock is based on the quantity that is calculated to be required via the details of the original field and amount needed to replace in kind.

2) **Fill and Excavation**

- a. **Drain field Excavation and Fill:** This estimate includes the amount of excavation that is to take place to install all piping associated with the drain field. It also includes backfilling all open trenches once the piping is in place.

3) **General Site Work**

- a. **Finish Grading, Seed & Straw:** This is based on miscellaneous square footage that is anticipated to be left over outside of the drain field that will need to be returned to its original state that will be disturbed by construction.
- b. **Site Cleanup/Remediation of Existing Drain field:** The existing drain field will have to be plugged and ensure that no wastewater is being conveyed to the area. Depending on what is required as part of the approval for the new drain field, this cost may need to be evaluated further if additional closure requirements are instilled.

Civil Engineering
GIS Mapping
Potable Water
Wastewater Treatment



Civil Site Design
Construction Support
Transportation
Wastewater Collection

It should also be mentioned that the cost estimate did not account for additional land acquisition and assumes the current proposed location will be deemed acceptable. We believe that once the drain field approval is issued with all unknowns answered, the estimate be re-evaluated. Currently, it is believed to be the best path forward.

Sincerely,

A handwritten signature in blue ink that reads 'Benjamin Kuenzel'.

Benjamin Kuenzel, PE, Principal - PE33718
21 Design Group, Inc. - Permit No. 4804