

COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION,

In the Matter of:

CASE 2022-00318

APPLICATION OF BEECH GROVE WATER SYSTEM

UNACCOUNTED - FOR WATER LOSS REDUCTION PLAN,

SURCHARGE AND MONITORING

**Proposal**

Beech Grove Water System can better determine the magnitude of its water loss and isolate leaks quickly and efficiently. Beech Grove crew or contractors detecting a leak & repairs faster. Beech Grove Water System proposal is to hire Reveal Underground Services to help with leak detection for approximately 590 meters. We would have 1 Beech Grove Water System operator working with Reveal Underground Services to locate & repair any leaks found immediately. (This would be meters & fire hydrants).

Beech Grove Water Proposes to purchase a LEICA DS2000 – Utility detection radar at a cost of \$19,995.00. DS2000 will makes locating a leak faster and more efficient. This equipment will identify the precise location of the leak.

Beech Grove Water has calculated the labor and transportation expense associated with leak detections and repairs to cover a four- year period, this estimate assumes a two-person crew searching for leaks with the Beech Grove Water System operator for ten hours each week (1040 hours annually) at a wage rate \$35.00 per hour and travel approximately 50 miles per day at a mileage rate of \$.75 per mile.

Beech Grove Water assumes that 25 leaks will be repaired each year. We estimate the associated cost with labor and materials to repair a leak at \$1500,00.

Beech Grove Water proposes to purchase United System meter -leak system. The meters will have a leak sensor that would report to the billing system to identify a leak immediately. These sensors would narrow the area of the leak, so the repairs can begin quicker. The cost is approximately \$30,100.00 which includes meter equipment, leak sensors and installation.

Detecting a water leak in a faster time period & quicker repairs, we estimate that we should be able to reduce water loss down to 10% a month.