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CHARLES S. MUSSON
W. RANDALL JONES
CHRISTIAN L. JUCKETT

October 17, 2016

RECEIVED

OCT 18 2016

Public Service
Commission

Ms. Talina R. Mathews
Executive Director
Public Service Commission
P.O. Box 615
Frankfort, Kentucky 40602

Re: **Mountain Water District Case No. 2016-00356**

Dear Ms. Mathews:

Enclosed please find the original and ten (10) copies of the certain supplemental information relating to Alternates A6, A7 and A9 which were included in the original Application of the Mountain Water District for a Certificate of Public Convenience and Necessity.

Please let us know if the Commission needs more information on the above Alternates.

Sincerely,

Rubin & Hays

By 
W. Randall Jones

WRJ:jlm
Enclosures
cc: Distribution List

Douglas Wastewater Treatment Plant Expansion (SX21195699)
Selection of Add Alternates

OCT 18 2016

Public Service
Commission**ADD ALTERNATES BACKGROUND**

The Mountain Water District initially opened bids on June 22nd, 2016. All bids received were in excess of the available funds. As a result, the District decided to reject all bids and re-advertise the project with a reduced scope. Items removed from the Base Bid Total remained on the revised Bid Schedule as Add Alternates.

The re-bid opening took place on August 3rd, 2016. The Base Bid Total of the low bidder was within budget with \$275,743.48 remaining for contingency. The District chose to add what were deemed the three most important alternates to the contract. The three alternates to be added are:

- Penny Road Lift Station Renovation - \$160,000.00
- Lick Branch Lift Station Renovation - \$175,000.00
- 400 KW Diesel Stationary Standby Generator - \$100,000.00

The total cost of the alternates is \$435,000.00. The District chose to exercise an option to add 10% to the KIA loan amount. The extra 10% (\$370,000.00) enables the alternates to be added to the contract with \$210,743.48 remaining in contingency.

EXPLANATION OF SELECTED ALTERNATESPenny Road and Lick Branch Lift Station Renovations

These alternates were chosen to address odor issues at existing lift stations. Both lift stations are located at highway intersections resulting in numerous complaints from the public regarding the odor. The Penny Road Lift Station Renovation will also line the existing wet well with epoxy coating in an effort to reduce chemical attack on the concrete.

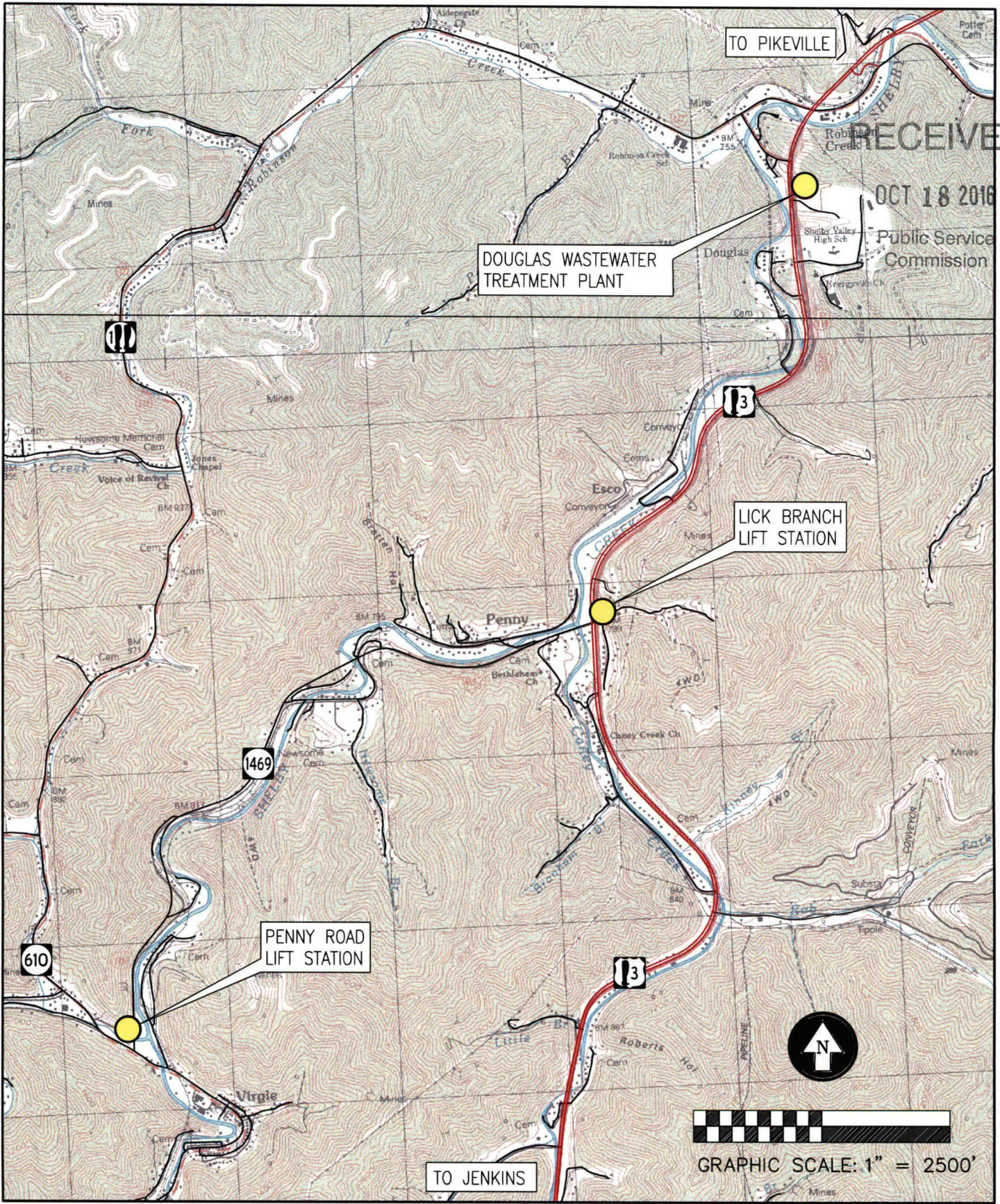
The odor is caused by long runs of force main, as is typical in rural areas, which reduce available oxygen. The proposed odor control equipment introduces ozone into the wastewater. The Penny Road Lift Station will be fitted with a fogger system that will treat the wastewater while it is in the wet well. The Lick Branch Lift Station will be equipped with an injection system on the station effluent. The District has used the proposed methods of odor control at other lift stations with positive results. The addition of odor control at the lift stations is expected to improve the odor issues at the plant as well.

No additional permitting is required for this alternate as it does not change the hydraulics of the system. The lift stations were previously permitted by the Kentucky DOW Facilities Section before they were constructed.

400 KW Diesel Stationary Generator

The plant currently has no on-site generator. This alternate was selected to provide a permanent back-up power source so that the plant can continue to operate during power outages. The power requirements of essential treatment equipment were provided to the specified manufacturer to size the generator.

No additional permitting is required for this alternate as it is included in the permit issued by KY DOW for the construction of the plant.



TO PIKEVILLE

DOUGLAS WASTEWATER TREATMENT PLANT

LICK BRANCH LIFT STATION

PENNY ROAD LIFT STATION

TO JENKINS

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Public Service Commission



GRAPHIC SCALE: 1" = 2500'

SUMMIT ENGINEERING INC.

Pikeville, KY
Lexington, KY
Henderson, KY
South Charleston, WV
Bridgeport, WV

Mountain Water District
6324 Zebulon Highway
Pikeville, Kentucky 41501

Douglas Wastewater Treatment Plant Expansion
Lift Station Renovations

DATE: 10/17/16
SCALE: 1" = 2500'
DRAWN BY: J. Newman
CHECKED:
PROJECT NO:
SHEET:
1
OF: