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Missouri Public
Service Commission

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL QUALITY
P.O. Box 176 Jefferson City, MO 65102-0176

CI
Jefferson County
(Raintree Plantation)
PWD ID #MO6036271
Review No. 61157-97

August 12, 1997 *mailed 8-18-97*

Mr. Martin Toma
Central Jefferson County Utilities, Inc.
1519 McNutt Road
Herculaneum MO 63048

Dear Mr. Toma:

Enclosed is a Report on Plans and Specifications for an elevated water storage tank for Raintree Plantation in Jefferson County, Missouri which I believe is self-explanatory.

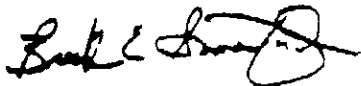
I remind you that while this water system improvement is necessary to meet the growing water demands of the development, it will also meet the requirements for lowering the lead level in the drinking water. The lead is in Well No. 1 but not in Well No. 2. Well No. 2 is to become the primary well and Well No. 1 is to be used only for standby and emergency uses provided Well No. 1 is manually activated once Central Jefferson County Utilities (Raintree Plantation) determines an emergency exists. Notice to your customers must be made via television, radio and newspaper if the emergency use of Well No. 1 continues for more than two (2) days.

Please be advised, this facility may be required to obtain other permits from the Water Pollution Control Program. It is your responsibility to insure that any and all necessary permits for this facility have been obtained. You should apply directly to that program for any necessary permits.

I trust that consideration will be given to the comment contained in the report.

Sincerely,

PUBLIC DRINKING WATER PROGRAM



Breck E. Sumnerford, P.E., Chief
Permits Section

BES:rae

Enclosure

c. St. Louis Regional Office
Fribis, Wiley & Villacis, Inc.
Public Service Commission
Raintree Plantation

DNR Exhibit No. 9
Date 12-19-06 Case No. 50-2007-0071
Reporter PF 12

DEPARTMENT OF NATURAL RESOURCES OF MISSOURI
REPORT ON PLANS AND SPECIFICATIONS FOR WATER SYSTEM IMPROVEMENTS

Raintree Plantation, Jefferson County
August 12, 1997

Review Number 61157-97

INTRODUCTION

Plans and specifications for water system improvements for Raintree Plantation, Jefferson County, Missouri, were submitted for review and approval by Frihis, Wiley & Villacis, Inc., consulting engineers, Arnold, Missouri.

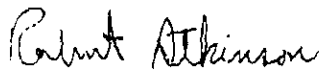
BRIEF DESCRIPTION

In general, these plans and specifications provide for water system improvements consisting of an 50,000 gallon elevated water storage tank near the existing standpipe and the necessary piping to place it in service. The tank is a used PDM tank to be set at a ground elevation of 770.9 M.S.L. and assumed to have an overflow elevation of 897 feet M.S.L. The proposed tank should provide an additional 55 feet of head (24 psi of pressure). The necessary piping (approximately 260 linear feet of 8-inch PVC), valves, fittings and appurtenances will be provided as per detailed plans and specifications. The interior of the tank will be painted with coatings acceptable to the Department. Before being placed in service, the tank will be cleaned, tested, disinfected and sampled for bacteriological analyses.

COMMENTS

These improvements will allow (1) the use of Well No. 2 as the main well and (2) the abandonment of the existing standpipe and booster pumps. Both wells will discharge into the distribution system and the new elevated tank will float on the distribution system. Well No. 1 has a dedicated line to the elevated storage tank.

Well No. 1 has lead in the water greater than the allowed concentration and is to be used only as a standby and emergency source of water. This is intended to reduce the lead level in the drinking to well below the allowable level. In effect, Well No. 1 is taken out of routine service and is to be used only for standby or emergency uses.



Robert Atkinson, P.E.
Environmental Engineer
Permits Section

APPROVAL TO CONSTRUCT

The engineering plans and specifications described above were examined as to sanitary features of design which may affect the operation of the sanitary works, including size, capacities of the units, and factors which may affect the efficiency and ease of operation. Approval as regards these points is hereby given.

Approval is given with the understanding that final inspection and approval of the completed works shall be made by the Department of Natural Resources before same is accepted and placed in operation. If construction is not commenced two (2) years after the date of issue or there is a halt in construction of more than two years, the approval to construct will be void unless an extension of time has been granted by the department.

In the examination of plans and specifications, the Department of Natural Resources, Public Drinking Water Program does not examine the structural features of design or efficiency of mechanical equipment. This approval does not include approval of these features.

The Department of Natural Resources, Public Drinking Water Program reserves the right to withdraw the approval of plans and specifications at any time it is found that additional treatment or alterations are necessary to assure reasonable operating efficiency and to afford adequate protection to public health.

Notice from

Central Jefferson County Utilities, Inc.

A number of our customers have expressed concern about using Well #1 to supplement the water supply during days of high demand in the summer. While the water from Well #1 goes directly to the water tower and is blended with water from Well #2, and all tests from the distribution system continue to be in compliance with state and federal safe drinking water limits, Central Jefferson Utilities understands this concern. The Missouri Department Natural Resources has suggested a plan that should limit the number of times that Well # 1 might be needed this summer. Well # 1 is only used during the summer when law irrigation occurs. The plan suggested by the Department of Natural Resources is to ask residents to voluntarily alternate the days that they irrigate. Even numbered addresses would water on even numbered days (calendar days), and odd numbered addresses would water on off numbered days. Homes with automatic sprinklers that are programmable by day of the week (Monday, Tuesday, Wednesday etc) could use Monday, Wednesday and Friday as odd numbers, and Sunday, Tuesday and Thursday as even numbers.

Additionally, homeowners can eliminate waster water from over watering the lawn by timing and calibrating their irrigation. The Department of Natural Resources has provided the Property Owners Association with copies of the University of Missouri bulletin "Home Lawn Watering Guide" (Publication # G6720). This is available from the Property Owners Association and on line at <http://muextension.missouri.edu/explore/agguides/hort/g06720.htm>.

This is solely a voluntary plan, the Central Jefferson Utility has no authority to enforce the plan; we are simply forwarding this information in an effort to address concerns about the use of Well #1. In the event that it becomes necessary to use Well #1 a sign will be posted at the entrance/exit to Raintree advising Well #1 is being used that day. It will remain posted until that same night. In addition the Department of Natural Resources will be notified so they may collect samples to verify the water being delivered to your tap continues to meet all state and federal requirements. Again we stress this plan is voluntary, and our office staff will not be able to answer any questions.