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ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER
200 FAIR OAKS LANE, 4TH FLOOR
FRANKFORT, KENTUCKY 40601
www.kentucky.gov

June 27, 2014

Mr. Zachery Dukes
KY American Water Co
2300 Richmond Rd
Lexington, KY 40502

RE: KY American Water Co
AI#: 1063, APE20140001
PWSID # 0340250-14-001
Richmond Road Station Water Treatment
Plant Improvements
Fayette County, KY

Dear Mr. Dukes:

We have received the Plans and Specifications for the above referenced project. The project consists of installation of new filter building, with eight (8) dual-media filters; new chlorine contact basin; relocation of chemical feed points; new backwash tank with backwash pumps; new yard piping; and associated civil, electrical, and HVAC changes to support the proposed process improvements.

This is to advise that plans and specifications covering the above referenced subject are APPROVED with respect to sanitary features of design as of this date with the following stipulations:

- a) The capacity of the treatment plant shall be 25 MGD (17,360 gpm).
- b) No discharges shall be made within five miles upstream of any drinking water intake stations (Kentucky Division of Water five-mile policy).
- c) Filter rate shall be less than 5 gpm/ft².
- d) One hundred percent of the water treatment plant rated design capacity shall be met with one filter out of service.
- e) Backwash rate shall provide for fifty percent (50%) expansion of the filter bed. Recommended backwash rates shall be 15 gpm/ft² minimum (20 gpm/ft² recommended).
- f) There shall be no air delivery piping penetrating or present within the filter media bed nor shall there be any arrangement in the filter design which would allow short circuiting between the applied unfiltered water and the filtered water.

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- (g) Required clearwell volume shall be at least fifteen percent (15%) of the water treatment plant rated design capacity. Less than 15% may be approved if it can be shown that a lesser volume will be adequate in terms of required CT value, adequate backwash source water and other relevant considerations.
- (h) Two separate compartments or two separate clear wells required with continued access to high service pumping to allow maintenance to one chamber or one clear well without interrupting service.

When this project is completed, the owner shall submit a written certification to the Division of Water that the above referenced water supply facilities have been constructed and tested in accordance with the approved plans and specifications and the above stipulations. Such a certification shall be signed by a licensed professional engineer.

This approval has been issued under the provisions of KRS Chapter 224 and regulations promulgated pursuant thereto. Issuance of this approval does not relieve the applicant from the responsibility of obtaining any other permits or licenses required by this Cabinet and other state, federal and local agencies.

Unless construction on this project commences within two years from the date of this approval letter, Kentucky American Water shall re-submit the original plans and specifications for a new comprehensive review.

If you have any questions concerning this project, please contact Mr. Mortaza Tabayeh at 502-564-3410 extension 4826.

Sincerely,



E-Signed by Mark Rasche
VERIFY authenticity with e-Sign
Mark Rasche

Mark Rasche, P.E.
Supervisor, Engineering Section
Water Infrastructure Branch
Division of Water

MR: MT
Enclosures

C: Hazen & Sawyer, PC
Lexington-Fayette County Health Department
Public Service Commission (by e-mail only)
Division of Plumbing (by e-mail only)