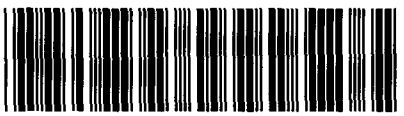

Control Number: 47073

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DOCKET # 47073

APPLICATION OF QUADVEST, L.P. TO AMEND ITS WATER AND SEWER CERTIFICATE OF CONVENIENCE AND NECESSITY IN WALLER COUNTY	**§** **§** **§**	**PUBLIC UTILITY COMMISSION OF TEXAS**

Enclosed is TCEQ approval for water system.

Yvette Castro
Yvette Castro
Quadvest, L.P.
26926 FM 2978
Magnolia, TX 77354
Telephone: 281-305-1124
Fax: 281-356-5382
yvettec@quadvest.com

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PWS_2370123_CO_20171219_Plan Ltr

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 19, 2017

Mr. Mark L. Urback, P.E.
Quadvest, L.P.
26926 FM 2978
Magnolia, TX 77354

Re: Freeman Ranch - Public Water System ID No. 2370123
Proposed Public Water System and Well No. 1
Engineer Contact Telephone: (281) 356-5347
Plan Review Log No. P-10112017-059
Waller County, Texas

CN602944746; RN110067063

Dear Mr. Urback:

On October 10, 2017, the Texas Commission on Environmental Quality (TCEQ) received planning material with your letter dated October 5, 2017 for the proposed Public Water System and Well. Based on our review of the information submitted, the project generally meets the minimum requirements of Title 30 Texas Administrative Code (TAC) Chapter 290 - Rules and Regulations for Public Water Systems and is **conditionally approved for construction** if the project plans and specifications meet the following requirement(s):

1. Four corrosive indices (Modified Larson's Ratio Langelier Saturation Index, Ryznar Stability Index and the Aggressive Index) will be used to calculate corrosivity of the water from new source(s). Corrosive or aggressive water could result in aesthetic problems, increased levels of toxic metals, and deterioration of household plumbing and fixtures. **If the water appears to be corrosive,** the system will be required to conduct a study and submit an engineering report that addresses corrosivity issues or may choose to install corrosion control treatment **before use may be granted.** All changes in treatment require submittal of plans and specifications for approval by TCEQ.
2. An exception for Sanitary Control Easement over a right-of-way will be necessary, and must be submitted with the Well Completion Data (Step 2) for this well.

The submittal consisted of 15 sheets of engineering drawings and technical specifications. The proposed project consists of:

PHASE ONE CONSTRUCTION

- One (1) public water supply well (well #1) drilled with an 9.875-inch diameter borehole to 600 feet with 570 linear feet (lf) of 6-inch outside diameter (od) Sch 40 steel casing and pressure-cemented 565 lf;

- 35 lf of 3-inch od stainless steel, slot size of scree to be determined, with 9.875-inch diameter underream and 35 feet gravel pack;
- The well is rated for 115 gallons per minute (gpm) yield with a 10 horsepower, 6-inch motor diameter, 9-stage pump, set at 264 feet deep. The design capacity of the pump is 350 gpm at 340 feet total dynamic head;
- 7 ft. by 7 ft. concrete sealing block with 0.75 inch per foot slope;
- Disinfection will by with sodium hypochlorite. The equipment consisting of:
  - Two (2) PulseChem XP Model XP080 chemical feed pump, and a spare; and,
  - One (1) 300-gallon double-walled bulk storage tank; and,
  - A day-tank for sodium hypochlorite.
- One (1) 166,000-gallon American Water Works Association (AWWA) Standard D103-09 Factory-Coated Bolted Carbon Steel Tank for Water Storage, with a roof slope of 0.75 inch per foot or greater;
- One (1) 15,000-gallon in compliance with American Society of Mechanical Engineers (ASME) Section VIII, Division 1 Codes and Construction Regulations;
- Four (4) booster pumps, all consisting of 40 horsepower motors delivering 500 gallons per minute each;
- One (1) 250 KW diesel emergency generator;
- All weather access road, and intruder resistant fence; and,
- Various piping, valves, fittings and appurtenance.

The proposed project site is located 7.4 miles west of the intersection of Highway 99 and Farm to Market 529, and 0.5 miles south of Farm to Market 529, in Waller County, Texas.

We will retain these documents for **100 calendar days** from the date of this letter. Revisions or additional information must be submitted to the TCEQ (Plan Review Team, MC-159) within that time or the entire package must be resubmitted for review. Please refer to the Plan Review Team's Log No. **P-10112017-059** in all correspondence for this project.

Please note for future submittals: In order to determine if a new source of water or a new treatment process results in corrosive or aggressive finished water that may endanger human health, we are requesting additional sampling and analysis of lead, alkalinity (as calcium carbonate), calcium (as calcium carbonate) and sodium in addition to the required chemical test results for public water system new sources. We are requiring these additional sampling results as listed in our currently revised checklists (Public Well Completion Data Checklist for Interim Use - Step 2 and Membrane Use Checklist - Step 2) which can be found on TCEQ's website at the following address:

https://www.tceq.texas.gov/drinkingwater/udpubs.html

Please include these additional sampling results in well completion submittals, membrane use submittals, and other treatment process submittals.

New surface water sources will need to also include lead, total dissolved solids, pH, alkalinity (as calcium carbonate), chloride, sulfate, calcium (as calcium carbonate) and sodium with the analysis required in 30 TAC Section 290.41(e)(1)(F).

Please complete a copy of the most current Public Water System Plan Review Submittal form for any future submittals to TCEQ. Every blank on the form must be completed to minimize any delays in the review of your project. The document is available on TCEQ's website at the address shown below. You can also download the most current plan submittal checklists and forms from the same address.

https://www.tceq.texas.gov/drinkingwater/udpubs.html

For future reference, you can review part of the Plan Review Team's database to see if we have received your project. This is available on TCEQ's website at the following address:

https://www.tceq.texas.gov/drinkingwater/planrev.html/#status

You can download the latest revision of 30 TAC Chapter 290 - Rules and Regulations for Public Water Systems from this site.

If you have any questions concerning this letter or need further assistance, please contact Robert W. Sims, P.E. at (512) 239-4664 or by email at Robert.Sims@Tceq.Texas.Gov or by correspondence at the following address:

Plan Review Team, MC-159
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Sincerely,

FOR Robert W. Sims, P.E.
Plan Review Team
Plan and Technical Review Section
Water Supply Division
Texas Commission on Environmental Quality

Vera Poe, P.E., Team Leader
Plan Review Team
Plan and Technical Review Section
Water Supply Division
Texas Commission on Environmental Quality

VP/RWS/kp

cc: MR. SIMON SEQUEIRA, FREEMAN RANCH, QUADVEST, L.P., 26926 FM 2978, MAGNOLIA, TX 77354