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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

November 22, 2021

Mr. Jerry F. Fontaine, P.E.
J.F. Fontaine & Associates, Inc.
P.O. Box 4187
Palestine, TX 75802

Re: CPR Development - Public Water System ID № 2120112
Proposed Water Plant and Commnity Water System
Engineer Contact Telephone: (903) 729-6005
Plan Review Log № P-09222021-134
Smith County, Texas

CN: 605951359; RN: 111366241

Dear Mr. Fontaine:

On September 22, 2021, the Texas Commission of Environmental Quality (TCEQ) received planning material for the proposed water plant and community water system. Additional information was received on November 9, 2021 via email. 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 requirements:

1. A copy of the recorded deed and map demonstrating that the public water system owns all of or a portion of real property within 150 feet of the well shall be obtained, in accordance with 30 TAC §290.41(c)(1)(F)(iv)(I)-(II). For any real property within 150 feet of the well not owned by the public water system, a sanitary control easement or sanitary control easements as filed at the county courthouse (bearing the county clerk's stamp) shall be obtained, as described in 30 TAC §290.41(c)(1)(F). Please provide a copy of the recorded deed and a map showing all land owned by the public water system within 150 feet of the well and for any land within 150 feet of the well not owned by the public water system provide copies of all recorded sanitary control easements with the well completion materials.

2. Please note that Chlorination Method 3 in American Water Works Association (AWWA) Standard C652-19 allows filling a tank with chloraminated water after the bottom 5% of the tank has been disinfected with free chlorine. The breakpoint reactions between free chlorine, monochloramine, and free ammonia may end up at undesirable locations on the chlorine breakpoint curve. The top half of the tank may not be effectively disinfected. If Chlorination Method 3 in AWWA Standard C652-19 is used, the tank is filled from 5% to full with chloraminated water, and bacteriological tests have failed, consider switching to a different disinfection method allowed in the AWWA Standard.

3. 30 TAC §290.42(f)(2)(A) requires that each chemical feeder that is needed to comply with a treatment technique or maximum contaminant level (MCL) requirement shall have a standby or reserve unit. Please ensure compliance with this rule.

4. The technical specifications for the proposed well refers to American Water Works Association (AWWA) Standard A100-06. Please update it to current AWWA Standard A100-20 and revise your specifications accordingly.

5. With well completion submittal, please provide setting depth, horsepower, design capacity, total dynamic head and pump curve of the well pump for water production.

6. Corrosive indices 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.

Texas Water Code Section 36.0015 allows for the creation of groundwater conservation districts (GCDs) as the preferred method of groundwater management. GCDs manage groundwater in many counties and are authorized to regulate production and spacing of water wells. **Public water systems drilling wells within an existing GCD are responsible for meeting the GCD's requirements.** The authorization provided in this letter does not affect GCD authority to manage groundwater or issue permits.

The design engineer or water system representative is required to notify the Plan Review Team in writing by fax at (512) 239-6972 or by emailing jonathan.pi@tceq.texas.gov and cc: vera.poe@tceq.texas.gov at least 48 hours before the well casing pressure cementing begins. If pressure cementing is to begin on Monday, then they must give notification on the preceding Thursday. If pressure cementing is to begin on Tuesday, then they must give notification on the preceding Friday.

The TCEQ does not approve this well for use as a public water supply at this time. We have enclosed a copy of the "Public Well Completion Data Checklist for Approval to Use (Step 2)". We provide this checklist to help you in obtaining approval to use this well.

The submittal consisted of 23 sheets of engineering drawings, technical specifications and an engineering summary. The proposed project consists of:

- One (1) public water supply well drilled to 1,000 feet with 900 linear feet (lf) of 10.625-inch outside diameter (o.d.) steel casing and pressure-cemented 900 lf;
- 100 lf of 6.625-inch o.d. stainless steel screen, 100 lf of 6.625-inch o.d. blank steel liner and 100 lf gravel lap, with 14-inch diameter underream and 100 lf gravel pack;
- Wellhead including a concrete sealing block, flow meter, raw water sample cock, casing vent covered with 16-mesh or finer screen made of corrosion-resistant material and facing downward;
- The well is rated for 250 gallons per minute (gpm) yield. ***The setting depth, horsepower (hp), design capacity, and total dynamic head (tdh) to be determined***;
- One (1) 100,000-gallon AWWA D100 welded steel ground storage tank;

- One (1) 10,000-gallon American Society of Mechanical Engineers welded steel hydropneumatic tank;
- Two (2) 500-gpm service pumps with 40-hp at 185-feet tdh each;
- One (1) 1,000-gpm service pump with 75-hp at 185-feet tdh;
- Gas-chlorine disinfection equipment consisting of one (1) cylinder mounted chlorinator capable of delivering 12 pound per day and two (2) 150-pound gas cylinders;
- Intruder-resistant fence and an all-weather access road; and
- All associated piping, valves, fittings and appurtenances.

This approval is for the construction of the above listed items only. Any wastewater components contained in this design were not considered.

The authorization provided in this letter does not relieve a Public Water System from the need to comply with other applicable state and federal regulations.

The CPR Development public water system provides water treatment.

The project is located Southeast corner of Texas State Highway 155 and Farm to Market Road 344, Noonday, in Smith County, Texas.

An appointed engineer must notify the TCEQ's Region 5 Office in Tyler at (903) 535-5100 when construction will start. Please keep in mind that upon completion of the water works project, the engineer or owner will notify the TCEQ's Water Supply Division, in writing, as to its completion and attest to the fact that the completed work is substantially in accordance with the plans and change orders on file with the TCEQ as required in 30 TAC §290.39(h)(3).

Please refer to the Plan Review Team's Log № **P-09222021-134** in all correspondence for this project.

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 Mr. Jonathan Pi, P.E. (512) 239-6968 or by email at jonathan.pi@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,

Jonathan Pi, 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/JPI/av

Enclosure 1: *"Public Well Completion Data Checklist for Approval to Use (Step 2)"*
Enclosure 2: *TCEQ Cementing Certificate Form*

cc: CPR Water Supply Company, LLC., c/o Cole, Prewitt, & Rudisl, LLC, Attn: Kim Cole, P.O. Box 1582, Palestine, TX 75802-1582