

Control Number: 46089



Item Number: 19

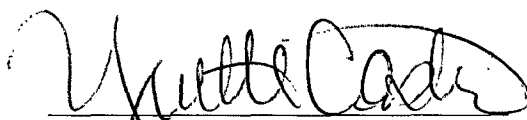
Addendum StartPage: 0

APPLICATION OF QUADVEST, L.P. TO §
AMEND WATER AND SEWER §
CERTIFICATE OF CONVENIENCE AND §
NECESSITY IN JACKSON COUNTY

PUBLIC UTILITY COMMISSION 2016 NOV 8 AM 10:04
OF TEXAS PUBLIC UTILITY COMMISSION
FILING CLERK

RESPONSE TO SECOND RFI

- Staff 2-1 Quadvest provided a TCEQ investigation report for Rocky Creek Estates. Please confirm whether the new development will be interconnected with this utility or if Quadvest will be building a standalone system.
- Answer Quadvest will be building a stand alone system. I sent the most recent Quadvest Plant inspection and Rocky Creek was the most recent.
- Staff 2-2 Please confirm if Quadvest has provided plans and specifications for the water Facilities to TCEQ for review and approval. If so, please provide a copy of the TCEQ construction approval letters.
- Answer Enclosed is TCEQ approval letter
- Staff 2-3 Please provide a letter of consent from Texana Groundwater Cons. District Consenting to Quadvest's provision of retail water service in the area
- Answer Enclosed is approval letter



Yvette Castro
Quadvest LP
26926 FM 2978
Magnolia, TX 77354
Telephone: 281-356-5347
Fax: 281-356-5382

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niermann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



PWS_1200044_CO_20160725_Plan Ltr

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 25, 2016

Mr. Ray M. Bridges, P.E.
Urban Engineering
2004 N Commerce
Victoria, TX 77901

Re: Plan Review - Cape Shores Subdivision Public Water System ID No. 1200044
Proposed Water Well and System
Engineer Contact Telephone: (361) 578-9836
Plan Review Log No. P-04282016-038
Jackson County, Texas

CN 602944746; RN 109269738

Dear Mr. Bridges:

On April 22, 2016, the Texas Commission on Environmental Quality (TCEQ) received planning material with your letter dated April 18, 2016 for the proposed water well and system. 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, subject to the following condition:**

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 required 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 emailing pritesh.tripathi@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 a 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 Interim Approval." We provide this checklist to help you in obtaining approval to use this well.

The submittal consisted of 9 sheets of engineering drawings, technical specifications and an engineering summary. The proposed project consists of:

- One (1) public water supply well drilled to 700 feet with 680 linear feet (lf) of 8-inch outside diameter (od) Standard Dimension Ratio (SDR) 17 American Society of Testing Materials (ASTM) Standard F 480 polyvinyl chloride (PVC) casing and pressure-cemented 680 lf;
- 20 lf of 8-inch od SDR 17 PVC slot screen;
- The well is rated for 100 gallons per minute (gpm) yield with a 30 horsepower, 6-inch, 21-stage, submersible pump set at 600 feet deep. The design capacity of the pump is 100 gpm at 900 feet total dynamic head;
- 980 lf 2-inch ASTM Standard D 1784 Schedule 40 PVC water line;
- 6,730 lf 4-inch American Water Works Association (AWWA) Standard C 900 DR 18 PVC water line;
- 2,450 lf 6-inch AWWA) Standard C 900 DR 18 PVC water line; and
- Various valves, fittings, and related appurtenances.
- Phase 1 plant improvements:
 - One (1) 2,500 gallon American Society of Mechanical Engineers (ASME) Section VIII, Division 1 Codes and Construction Regulations hydropneumatic pressure tank; and
 - All necessary valves, fittings, and related appurtenances
- Phase 2 plant improvements:
 - Two (2) 97 gallon per minute centrifugal service pumps;
 - One (1) 30 gallon per day peristaltic pump and two (2) 55 gallon double walled (per staff guidance) polyethylene storage drums;
 - One (1) 25,000 gallon American Water Works Association Standard D 100 steel ground storage tank; and
 - All necessary valves, fittings, and related appurtenances

Pursuant to 30 TAC §290.110(a) "*Applicability. All public water systems shall properly disinfect water before it is distributed to any customer and shall maintain acceptable disinfectant residuals within the distribution system*". Since this project is for a groundwater system and includes installation of only one chemical feed pump, it is recommended that at least one additional, appropriately sized, chemical feed pump be installed as a backup so that the system can maintain disinfectant residual within its distribution system as required by this rule.

Mr. Ray M. Bridges, P.E.
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July 25, 2016

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

The Cape Shores Subdivision public water system provides water treatment.

The project is located on the west side of Cape Shores Drive, ½ mile south of Fisherman Lane in Jackson County, Texas.

An appointed engineer must notify the TCEQ's Region 14 Office in Corpus Christi at (321) 865-3100 when construction will start. Please keep in mind that upon completion of the water works project, the engineer or owner will notify the commission'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 commission as required in 30 TAC §290.39(h)(3).

Please refer to the Plan Review Team's Log No. P-04282016-038 in all correspondence for this project.

Please Note: 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.

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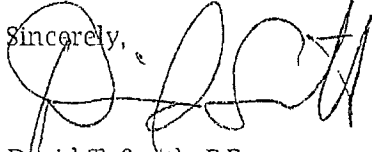
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Mr. Ray M. Bridges, P.E.
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July 25, 2016

If you have any questions concerning this letter or need further assistance, please contact David Smith at (512)239-4703 or by email at david.smith@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,



David T. Smith, 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/DS/av

Enclosure: *"Public Well Completion Data Checklist for Interim Approval (Step 2)"*

cc: Cape Shores Subdivision PWS, Attn: Ms. Yvette Castro, P.O. Box 409, Tomball, TX 77377

Texana Groundwater Conservation District



Precinct 1: Kenneth Koop, Vice President
Precinct 2: Michael Skalicky, President
Precinct 3: Robert Martin
At Large 3: Clarence Schomburg

Precinct 4: Ray Brundrett, Treasurer
At Large 1: Jim Revel, Secretary
At Large 2: Johnny Dugger

September 15, 2016

Renee Howes
P.O. Box 261
Skull Vally, AZ 86338

RE: Application ID: ADW – 20160726-01
Permit ID: DP-20160915-01
Permit Expiration Date: 180 days (Expires: 3/14/2017)

The Texana Groundwater Conservation District has considered your application to obtain a water well drilling permit. The subject application has been assigned the aforementioned Application ID and is incorporated into the permit and the permit is granted on the basis of and is contingent upon the accuracy of the information supplied in the application.

The District, after consideration of the information provided in the application, has approved your request for a drilling permit in accordance with District Rules and you may proceed to drill the well in compliance with the Rules. The Rules of the District may be viewed at the District Office or online at www.texanagcd.org. The drilling permit has been assigned the aforementioned permit id. The permit identifies the authorized drilling area in which the subject well must be drilled in order to comply with the conditions of the permit. The permit is valid for 180 days from the issue date.

There are number of requirements and conditions established in the District Rules that directly relate to the drilling of a water well within Jackson County. Under Rule 4.2, the person drilling the subject water well must have a copy of this permit in their possession while drilling the subject well, the person drilling the subject well must provide the District with at least two (2) hours notice prior to placing casing in the borehole. In addition, under Rule 5.1, Rule 7.1 and Rule 7.2, additional requirements related to the placement, drilling, and completion of the subject well is specified.

After the subject well is drilled and completed, the subject well must be properly registered with the District within 60 days in accordance with Rule 2.1. Please submit a copy of the well driller's log with the registration application.

If you have any questions regarding this permit or the associated conditions and requirements, please contact the District prior to drilling the subject well.

Regards,

Candace Whittle, Administrative Assistant

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niermann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



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Plan Review Team
Plan and Technical Review Section
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Vera Poe, P.E., Team Leader
Plan Review Team
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