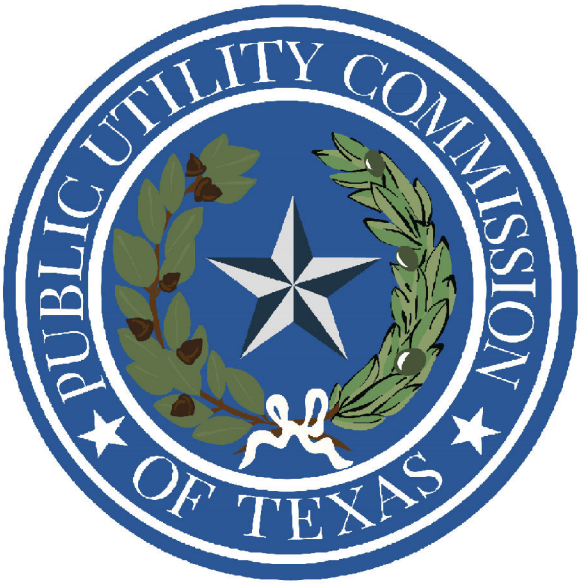


# Filing Receipt

**Received - 2021-11-02 11:27:33 AM**
**Control Number - 51753**
**ItemNumber - 25**

# DOCKET NO 51753

| | | |
|---|---|---|
| **APPLICATION OF QUADVEST, L.P. TO AMEND ITS CERTIFICATE OF CONVEINIENCE AND NECEISSTY IN FORT BEND COUNTY** | § § § | **PUBLIC UTILITY COMMISSION OF TEXAS** |

Enclosed is PWSID approval letter from TCEQ.

*Yvette McNellie*

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

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

Septmeber 3, 2021

Mr. Mark L. Urback, P.E.
Quadvest, L.P.
26926 Farm To Market Road 2978
Magnolia, Texas 77354

Re: McKinnon Water Plant - Public Water System ID No. 0790610
Proposed Water Well and Water Plant - Well No. 1
Engineer Contact Telephone: (281) 356-5347
Plan Review Log No. P-07062021-025
Fort Bend County, Texas

CN602944746; RN111313268

Dear Mr. Urback:

On July 6, 2021, the Texas Commission of Environmental Quality (TCEQ) received planning material with your letter dated August 13, 2021 for the proposed water well and plant. 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. Corrosive indices will be used to calculate corrosivity of the water from new source. 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. Pursuant to 30 TAC Section 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, or on the shelf as a backup, so that the system can maintain disinfectant residual within its distribution system as required by this rule.

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 kamal.adhikari@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 12 sheets of engineering drawings, technical specifications, and an engineering summary. The proposed project consists of:

- One (1) public water supply well drilled to 360 feet with 320 linear feet (lf) of 6-inch outside diameter (od) pressure-cemented steel casing;
- 40 lf of 4-inch od rod base stainless-steel screen, 20 lf of 4-inch od blank steel liner;
- The well is rated for 200 gallons per minute (gpm) yield with a 20 horsepower, submersible pump set at 255 feet deep. The design capacity of the pump is 200 gpm at 282 feet total dynamic head;
- Well head concrete sealing block and well head piping including screened vent, flow meter, sample tap and pressure gauge;
- One 202,306-gallon AWWA D103 factory coated bolted steel ground storage tank;
- Pump building to house four 500 gpm, 30 horsepower each end suction centrifugal water supply pumps with associated piping, valves, and controls;
- One 5,000-gallon ASME hydropneumatics pressure tank with air compressor;
- Hypochlorination feed system with one 55-gallom high density polyethylene chemical storage tank and peristaltic metering pump having a capacity of up to 22 gallons per day with associated piping, valves, and control;
- One 200-kilowatt standby diesel-powered generator set with a manual transfer switch to provide emergency back-up power to the water well, booster pumps, disinfection system and other miscellaneous appurtenances at the plant site.

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 Mckinnon Water Plant public water system provides water treatment.

The project is located approximately 185 feet north of the intersection of Farm to Market Road 359 and McKinnon Road in Fort Bend County, Texas.

An appointed engineer must notify the TCEQ's Region 12 Office in Houston at (713) 767-3500 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 Section 290.39(h)(3).

Please refer to the Plan Review Team's Log No. P-07062021-025 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 Kamal Adhikari at (512)239-0680 or by email at kamal.adhikari@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,

John Lock, 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/JL/KA/av

Enclosure: "Public Well Completion Data Checklist for Approval to Use (Step 2)"

cc: McKinnon Water Plant - Attn: Water Utilities Official, 26926 FM Road 2978, Magnolia, Texas 77354

# Public Well Completion Data Checklist for Approval to Use (Step 2)

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

Public Water System I.D. No._____
TCEQ Log No. P-_____

The following list is a brief outline of the "Rules for Public Water Systems", 30 TAC Chapter 290 regarding proposed Water Supply Well Completion. Failure to submit the following items may delay project approval. Copies of the rules may be obtained from Texas Register, 1019 Brazos St, Austin, TX, 78701-2413, Phone: (512) 463-5561 or downloaded from the website: http://www.tceq.texas.gov/rules/indxpdf.html

Any well proposed as a source of water for a public water supply must have plans approved for construction by TCEQ. Please include the well construction approval letter with your submittal of well completion data listed below for TCEQ evaluation. Based on review of this submitted data, approval may be given for use of the well.

1. ☐ Site map(s) at appropriate scales showing the following: [§290.41(c)(3)(A)]
   - ☐ (i) Final location of the well with coordinates;
   - ☐ (ii) Named roadways;
   - ☐ (iii) All property boundaries within 150 feet of the final well location and the property owners' names;
   - ☐ (iv) Concentric circles with the final well location as the center point with radii of 10 feet, 50 feet, 150 feet, and ¼ mile;
   - ☐ (v) Any site improvements and existing buildings;
   - ☐ (vi) Any existing or potential pollution hazards; and
   - ☐ (vii) Map must be scalable with a north arrow.
2. ☐ A copy of the recorded deed of the property on which the well is located showing the Public Water System (PWS) as the landowner, and/or any of the following: [§290.41(c)(1)(F)(iv)]
   - ☐ (i) Sanitary control easements (filed at the county courthouse and bearing the county clerk's stamp) covering all land within 150 feet of the well not owned by the PWS (for a sample easement see TCEQ Form 20698);
   - ☐ (ii) For a political subdivision, a copy of an ordinance or land use restriction adopted and enforced by the political subdivision which provides an equivalent or higher level of sanitary protection to the well as a sanitary control easement; and/or
   - ☐ (iii) A copy of a letter granting an exception to the sanitary control easement rule issued by TCEQ's Technical Review and Oversight Team.
3. ☐ Construction data on the completed well: [§290.41(c)(3)(A)]
   - ☐ (i) Final installed pump data including capacity in gallons per minute (gpm), total dynamic head (tdh) in feet, motor horsepower, and setting depth;
   - ☐ (ii) Bore hole diameter(s) (must be 3" larger than casing OD) and total well depth;
   - ☐ (iii) Casing size, length, and material (e.g. 200 lf of 12" PVC ASTM F480 SDR-17);
   - ☐ (iv) Length and material of any screens, blanks, and/or gravel packs utilized;
   - ☐ (v) Cementing depth and pressure method (one of the methods in latest revision of AWWA Standard A-100, Appendix C, excluding the dump bailer and tremie methods);
   - ☐ (vi) Driller's geologic log of strata penetrated during the drilling of the well;
   - ☐ (vii) Cementing certificate; and

# Public Well Completion Data Checklist for Approval to Use (Step 2)

- ☐ (viii) Copy of the official State of Texas Well Report (some of the preceding data is included on the Well Report).

4. ☐ A U.S. Geological Survey 7.5-minute topographic quadrangle map (include quadrangle name and number) or a legible copy showing the location of the completed well; [§290.41(c)(3)(A)]
5. ☐ Record of a 36-hour continuous pump test on the well showing stable production at the well's rated capacity. Include the following: [§290.41(c)(3)(G)]
   - ☐ (i) Test pump capacity in gpm, tdh in feet, and horsepower of the pump motor;
   - ☐ (ii) Test pump setting depth;
   - ☐ (iii) Static water level (in feet); and
   - ☐ (iv) Draw down (in feet).
6. ☐ Three bacteriological analysis reports for samples collected on three successive days showing raw well water to be free of coliform organisms. Reports must be for samples of raw (untreated) water from the disinfected well and submitted to a laboratory accredited by TCEQ, accredited to perform these test; and [§290.41(c)(3)(F)(i)]
7. ☐ Chemical analysis reports for well water samples showing the water to be of acceptable quality for the most problematic contaminants listed below. Reports must come from a laboratory accredited by TCEQ; accredited to perform these tests. Maximum contaminant level (MCL) and secondary constituent level (SCL) units are in milligrams per liter (except arsenic which is in micrograms per liter). [§290.41(c)(3)(G) and§290.104 and §290.105]

## Table 1: Primary Constituents with Maximum Contaminant Level (MCL)

| PRIMARY | MCL |
|---|---|
| Nitrate | 10 (as N) |
| Nitrite | 1 (as N) |
| Arsenic | 10 |
| Fluoride | 4.0 |

## Table 2: Secondary Constituents with Secondary Contaminant Level (SCL)

| SECONDARY | SCL |
|---|---|
| Aluminum | 0.2 |
| Copper | 1.0 |
| Iron | 0.3 |
| Manganese | 0.05 |
| Zinc | 5.0 |
| Total Dissolved Solids | 1,000 |
| Fluoride | 2.0 |
| Sulfate | 300 |
| Chloride | 300 |
| pH | > 7.0 |

# Public Well Completion Data Checklist for Approval to Use (Step 2)

## Table 3: Water Quality Parameters

| PARAMETER | UNITS |
|---|---|
| Alkalinity as CaCO3 | mg/L |
| Calcium as CaCO3 | mg/L |
| Sodium | mg/L |
| Lead* | mg/L |

Lead is regulated by the lead and copper rule. This analyte is to document the amount of lead in the source water. The level shall be less than 0.010 mg/L for approval to use.

All systems located in a high-risk county (see page 3) shall submit radiological analysis reports for water samples showing the water to be of acceptable quality for the contaminants listed below. Reports must come from a TCEQ accredited laboratory for approval to use of the well.

## Table 4: Radionuclides with Maximum Contaminant Level (MCL)

| CONTAMINANT | MCL |
|---|---|
| Gross alpha | 15 pCi/L |
| Radium-226/228 | 5 pCi/L |
| Beta particle | 50 pCi/L |
| Uranium | 30 µg/L |

WHERE: pCi/L = pico curies per liter, µg/L = micrograms per liter

Please be aware when you review your radiological data that if the report has gross alpha over 15 pCi/L and individual uranium isotopes are not reported, you will have to resample or reanalyze and resubmit radionuclide results. If you see gross alpha plus radium-228 over 5 pCi/L, and don't have radium-226, you will have to resample or reanalyze and resubmit complete results.

## List of Counties Where Radionuclide Testing Is required

Please be aware that we have added the requirement for analysis for radionuclides for high risk counties. For elevated levels of any contaminants found in a test well, treatment or blending may be required.

## Table 5: List of Counties where Radionuclide Testing is required

| COUNTY | | | | |
|---|---|---|---|---|
| Atascosa | Bandera | Bexar | Bosque | Brazoria |
| Brewster | Burnet | Concho | Culberson | Dallam |
| Dawson | Erath | Fort Bend | Frio | Garza |
| Gillespie | Gray | Grayson | Harris | Hudspeth |
| Irion | Jeff Davis | Jim Wells | Kendall | Kent |
| Kerr | Kleberg | Liberty | Llano | Lubbock |
| McCulloch | Mason | Matagorda | Medina | Midland |
| Montgomery | Moore | Parker | Pecos | Polk |
| Presidio | Refugio | San Jacinto | San Saba | Tarrant |
| Travis | Tyler | Upton | Val Verde | Victoria |
| Walker | Washington | Wichita | Williamson | Zavala |

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# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

August 13, 2021

New owner/proposed letter/0790610
SIMON O SEQUEIRA
QUADVEST LP
26926 FM 2978 RD
MAGNOLIA, TX 77354-5148

Subject: **Information for a Proposed Public Water System**
MCKINNON WATER PLANT - PWS ID 0790610
FORT BEND County, Texas

Dear Water System Official:

The Drinking Water Special Functions Section has assigned a public water system identification number (PWS ID) to the proposed project submitted by your engineer to our Texas Commission on Environmental Quality (TCEQ) Plan Review Team at some time in the past. The seven-digit number can be found in the second line of the subject or on the top right corner of this letter. Please refer to this number in any correspondence or conversations with TCEQ with respect to public drinking water activities.

**Your system is classified as a COMMUNITY public water system at this time.** Though it may be many months or several years until your project is completed, approved by TCEQ, and meets the definition of an active PWS, we would like this opportunity to introduce you to the regulatory requirements under the authority of the TCEQ. A water system that provides drinking water to **15 connections or 25 people** is a PWS by rule, please refer to 30 Texas Administrative Code (TAC) Chapter 290.38. You must let us know when your project reaches either of these numbers. At that time, we will activate your PWS and you will be subject to all the rules and regulations applicable for your type of water system.

The TCEQ assigns PWS ID numbers in order to track public health matters; **such assignment does not imply approval of the system.** Please note that any modifications to your water system require you to submit new plans and specifications to TCEQ for approval.

We have prepared this list which provides information on design, operations, maintenance, and monitoring, reporting, public notice protocols for public water supplies and opportunities for assistance. Included are the following guidance links:

- Drinking Water Watch Database, used to view data currently stored by TCEQ for a PWS - https://dww2.tceq.texas.gov/DWW/
- TCEQ Central Registry Database, used to search your customer and regulated entity as well as any permits you may have - https://www15.tceq.texas.gov/crpub/
- TCEQ Core Data Form, complete a Core Data Form if ownership for this PWS is incorrect or changes - https://www.tceq.texas.gov/permitting/central_registry/guidance.html

- New Public Water System - https://www.tceq.texas.gov/drinkingwater/newsystems.html
- Operating a Public Water System - http://www.tceq.texas.gov/drinkingwater/index.html
- Environmental Laboratory Accreditation - https://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html or https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/txnelap_lab_list.pdf
- Public Water System Monitoring Plan - http://www.tceq.texas.gov/drinkingwater/monitoring_plans/monitoring_plans.html
- Residual Disinfectant Reporting for Public Water Systems - http://www.tceq.texas.gov/drinkingwater/disinfection/dl_qor
- Public Notice Language for Drinking Water Contaminants - https://www.tceq.texas.gov/drinkingwater/chemicals/public_notices
- Location map/contact information for TCEQ Regional offices - https://www.tceq.texas.gov/agency/directory/region

Public water systems in Texas can receive free, on-site help with financial, managerial, and technical topics. The TCEQ's Financial, Managerial, and Technical (FMT) Assistance Program utilizes qualified contractors to assist newly-activated public water systems with understanding TCEQ rules, avoiding rule compliance violations, achieving adequate disinfection, and submitting monthly operating reports. Additional or follow up on site FMT assistance may be requested at any time and at no cost to the system. Please email FMT@tceq.texas.gov or call (512) 239 4691 and ask to speak to an FMT coordinator for more information, including a list of available assistance topics, or to request FMT assistance.

If your water system inventory or ownership information is incorrect, documentation concerning data or legal ownership must be submitted to the Drinking Water Special Functions Section Inventory team by email address at PWSINVEN@tceq.texas.gov. Failure to do so is a violation of 30 TAC Section 290.46(p).

Sincerely,

Steven Swierenga, Manager
Drinking Water Special Functions Section
Water Supply Division
Texas Commission on Environmental Quality

SS/CVR/db