



Control Number: 45879



Item Number: 18

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RECEIVED

DOCKET NO. 45879

2016 OCT 14 AM 11:11

JOINT APPLICATION OF THE CITY §  
OF SANGER AND BOLIVAR WATER §  
SUPPLY CORPORATION TO AMEND §  
CERTIFICATES OF CONVENIENCE §  
AND NECESSITY AND FOR §  
APPROVAL OF A WATER SERVICE §  
AGREEMENT IN DENTON COUNTY §

PUBLIC UTILITIES COMMISSION

PUBLIC UTILITY COMMISSION  
FILING CLERK

OF TEXAS

**CITY OF SANGER'S RESPONSES TO COMMISSION STAFF'S SECOND REQUEST FOR  
INFORMATION, QUESTION NO. STAFF 2-1**

COMES NOW, the City of Sanger, Texas ("the City"), by and through its attorney of record, and hereby responds to the Second Request for Information received from the Public Utilities Commission of Texas ("the Commission") on October 11, 2016.

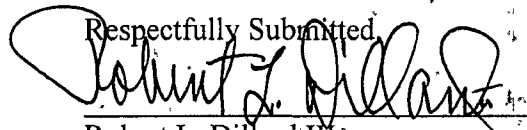
**QUESTION NO. STAFF 2-1**

Please provide TCEQ construction approvals for the wells referenced in the City's response to Staff RFI 1-1.

**CITY'S RESPONSE TO QUESTION NO. STAFF 2-1**

See Exhibit A attached hereto and made part hereof for all purposes. Exhibit A is the construction approval of the TCEQ for the wells referenced in the City's response to Staff RFI 1-1, Wells 8 and 9.

Respectfully Submitted,

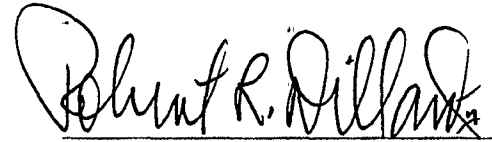


Robert L. Dillard III  
State Bar Number 05870000  
Nichols, Jackson, Dillard,  
Hager & Smith LLP  
1800 Ross Tower  
500 North Akard  
Dallas, Texas 75201  
214-965-9900 telephone  
214-965-0010 facsimile

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**CERTIFICATE OF SERVICE**

I certify that a copy of this document will be served on all parties of record on October 14, 2016, in accordance with 16 TAC § 22.74.

A handwritten signature in black ink, appearing to read "Robert L. Dillard III", written over a horizontal line.

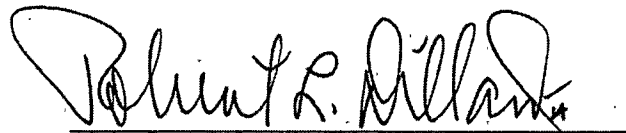
Robert L. Dillard III

DOCKET NO. 45879

JOINT APPLICATION OF THE CITY § PUBLIC UTILITIES COMMISSION  
OF SANGER AND BOLIVAR WATER §  
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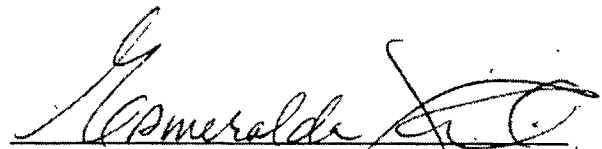
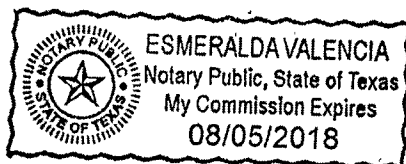
VERIFICATION

BEFORE ME, the undersigned authority, on this day personally appeared Robert L. Dillard III, known to me to be the person whose name is subscribed hereto, and who after being by me first duly sworn depose on his oath and stated that he is city attorney for the City of Sanger, that he has read the foregoing responses, that he has personal knowledge of the facts stated therein, and that all of said facts are within his knowledge and are true and correct.



Robert L. Dillard III

SUBSCRIBED AND SWORN TO BEFORE ME, on this 13<sup>th</sup> day of October 2016, to certify which witness my hand and official seal.



Notary Public, State of Texas

**JOINT APPLICATION OF THE CITY §  
OF SANGER AND BOLIVAR WATER §  
SUPPLY CORPORATION TO AMEND §  
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**PUBLIC UTILITIES COMMISSION  
OF TEXAS**

### **TABLE OF EXHIBITS**

In support of the above Response given by the City, the following Exhibit is attached and hereby incorporated as part of the City's Responses.

Exhibit A: TCEQ letter dated April 21, 2015, conditionally approving construction plans for City of Sanger water wells 8 and 9 in accordance with Title 30 Texas Administrative Code Chapter 290.

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



PWS\_0610006\_CO\_20150421\_Plan Ltr  
wellcond.doc

## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

April 21, 2015

Mr. David B. Hawkins, P.E.  
LNV, Inc.  
102 Decker Court, Ste. 240  
Irving, Tx 75062

Re: City of Sanger - Public Water System ID No. 0610006  
Proposed Water Wells No. 8 and No. 9  
Engineer Contact Telephone: (972) 550-9154  
Plan Review Log No.: P-02242015-145  
Denton County, Texas

CN600683254; RN101247310

Dear Mr. Hawkins:

On February 24, 2015, the Texas Commission of Environmental Quality (TCEQ) received planning material with your letter dated February 20, 2015 for the proposed water wells. Based on our review, the project generally meets the minimum requirements of the Title 30 Texas Administrative Code (TAC) Chapter 290 - Rules and Regulations for Public Water Systems (Rules) and is **conditionally approved for construction** if the project meets the following requirement(s):

- The well locations shall comply with Chapter 290.41(c)(1)(A-F) of the Rules with regard to separation distances from pollution hazards and the provision of a recorded sanitary control easement, deed or ordinance.
- The wells shall be cased and pressure cemented in accordance with Chapter 290.41(c)(3)(B-C) of the Rules.

An appointed engineer must notify the TCEQ's Region 4 Office in Dallas/Ft. Worth at (817) 588-5800 when construction will start.

Texas Water Code Section 36.0015 allows for the creation of groundwater conservation districts (GCD) as the preferred method of groundwater management. GCD's 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 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 Utilities Technical Review Team in writing by fax (512)239-6972 or email [john.lock@tceq.texas.gov](mailto:john.lock@tceq.texas.gov) and cc [vera.poc@tceq.texas.gov](mailto:vera.poc@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.

P.O. Box 13087 • Austin, Texas 78711-3087 • 512-239-1000 • [tceq.texas.gov](http://tceq.texas.gov)

How is our customer service? [tceq.texas.gov/customersurvey](http://tceq.texas.gov/customersurvey)

EXHIBIT

A

Mr. David B. Hawkins, P.E.  
Page 2  
April 21, 2014

**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 interim approval to use this well before we can give final approval.

The submittal consisted of 5 sheets of engineering drawings, technical specifications and an engineering summary. **The proposed project consists of:**

- **Well No. 8 and No. 9** drilled to 1,100 feet with 1,000 linear feet (l.f.) of 14-inch i.d. steel casing, pressure-cemented 1,000 l.f.; 100 l.f. of 6-inch stainless steel screen; 100 l.f. of 6-inch i.d. blank steel liner, with underream and gravel pack.
- The wells are rated for 700 gallons per minute (g.p.m.) each with a 250 horsepower pump set at 700 feet deep. The design capacity of the pump is 700 g.p.m. at 860 feet total dynamic head (t.d.h.).
- Wellhead piping and site work by future contract.

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

The City of Sanger public water system provides water treatment for the system.

Well No. 8 will be located at the intersection of Cherry St. and 2<sup>nd</sup> St.

Well No. 9 will be located at the end of Keith Dr.

Please keep in mind that within 60 days of project completion the engineer must attest in writing that the project was constructed as described in the approved plans, specifications and any change orders filed with the TCEQ as required in Title 30 Texas Administrative Code §290.39(h)(3) of the Rules.

Please refer to the Utilities Technical Review Team's Log No. P-02242015-145 in all correspondence for this project. This will help complete our review and prevent it from being considered a new 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 our website at the address shown below.

<http://www.tceq.texas.gov/utilities/planrev.html>

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

Mr. David B. Hawkins, P.E.

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April 21, 2014

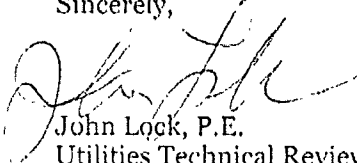
<http://www.tceq.texas.gov/utilities/planrev.html#status>

You can download most of the well construction checklists and the latest revision of Chapter 290 "Rules and Regulations for Public Water Systems" from this site.

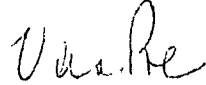
If you have any questions please contact John Lock at (512)239-4710 or by email at "john.lock@tceq.texas.gov" or by correspondence at the following address:

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

Sincerely,



John Lock, P.E.  
Utilities Technical Review Team  
Plan and Technical Review Section  
Water Supply Division  
Texas Commission on Environmental Quality



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

JL/av

Enclosure: "Public Well Completion Data Checklist for Interim Approval"

cc: City of Sanger, 502 Elm St., Sanger, Tx 76266

## PUBLIC WELL COMPLETION DATA CHECKLIST FOR INTERIM APPROVAL

Texas Commission on Environmental Quality    Public Water System I.D. No.: \_\_\_\_\_  
 Water Supply Division    TCEQ Log. No.: \_\_\_\_\_  
 Util. Technical Review Team MC-159    Owner's Well Id No. or Name.: \_\_\_\_\_  
 P.O. Box 13087, Austin, Texas 78711-3087

Any well proposed as a source of water for a public water supply must have plans approved for construction by the TCEQ. Plans are reviewed for compliance with Rules and Regulations for Public Water Systems Title 30 TAC Chapter 290.38-290.49. After the well is drilled, the well completion data listed below must be submitted for TCEQ evaluation. Based on this submitted data, interim approval may be given for use of the well. Please include the TCEQ Log No. and owner's well name when submitting well completion information.

*(Small print references in parentheses are Rules and Regulations for Public Water Systems Title 30 TAC Chapter 290.38-290.49)*

1. ☐ Copies of ordinance or a recorded deed and map showing ownership and/or sanitary control easements as filed at the county courthouse (bearing the county clerk's stamp), covering all areas within 150 feet of the well owned by the system that will convey to others and neighboring tract not owned by the system (for a sample easement see 30 TAC 290.47(c), or contact the TCEQ Austin office or a Regional office.  
 (Section 290.41(c)(1)(F) of the rules.)
2. ☐ Construction data on the completed well, including:
  - ☐ Casing size, bore hole diameter (at least 3-in wider than casing OD); total well depth, casing material (e.g. steel, PVC-SDR17), casing length, and cementing depth and method (one of the methods in AWWA Standard A-100-(latest rev'n), Appendix. C, *excluding* the dump bailer and tremie methods);
  - ☐ Driller's geologic log of strata penetrated during drilling of the well;
  - ☐ Copy of the official State of Texas Well Report filled out by the water well driller (some of the preceding data is included on the Water Well Report form. (Section 290.41(c)(3)(A),(B),(C) & (G) of the rules.)
  - ☐ Cementing certificate (Railroad Commission or company format). (Section 290.41(c)(3)(A))
3. ☐ A U.S. Geological Survey 7.5-minute topographic quadrangle map (include quadrangle name and number), or a legible copy, with "cross-hairs" showing the location of the completed well. (Section 290.41(c)(3)(A) of the rules.) **ACCURACY:** All locations collected shall maintain a minimum level of accuracy of at least 25 meters (82 feet). TCEQ OPP 8.11.02)
4. ☐ Record of a 36 hour pump test on the well showing stable production at the well's rated capacity (Section 290.41(c)(3)(A) & (G) of the rules). Include the final well pump capacity in gpm and feet, t.d.h.
5. ☐ Three bacteriological analysis reports showing raw well water to be free of coliform bacterial contamination; reports must be for samples of raw (untreated) water from the disinfected well, collected on three successive days, and submitted to a laboratory certified or accredited by TCEQ. (Section 290.41(c)(3)(A) & (F) of the rules.)
6. ☐ Chemical analysis reports for well water samples showing the water to be of acceptable quality for at least, the most problematic contaminants listed below (Section 290.41(c)(3)(A) & (G) of the rules, and Section 290.104 and 290.105 of Drinking Water Standards). Reports must come from a certified or accredited laboratory for interim use of the well. Maximum contaminant level (MCL) and secondary contaminant level (SCL) units are in mg/l (except arsenic).

<u>MCL</u>	<u>PRIMARY</u>	<u>SCL SECONDARY</u>	<u>SCL SECONDARY</u>	<u>SCL SECONDARY</u>
10 (as N)	Nitrate	0.2	Aluminum	5.0 Zinc
1 (as N)	Nitrite	1.0	Copper	1,000 Total Dissolved Solids
10 µg/l	Arsenic	0.3	Iron	2.0 Fluoride
4.0	Fluoride	0.05	Manganese	≥7.0 pH
15	Gross alpha (pCi/liter)*			
5	Radium-226/228 (pCi/liter)*			
50	Beta particle (pCi/liter)*			
30	Uranium (µg/liter)*	(WHERE: pCi/liter=pico curies per liter, µg/liter=micrograms per liter)		

Radionuclide water analyses required only in selected counties listed on the back of this checklist. For more guidance see "[How to Conduct Radionuclide Testing for Well Completion Interim Approval](#)"

7. ☐ By checking this box, submitter agrees to contact the Drinking Water Quality Team at 512/239-4691 within 120 days of receiving interim approval to schedule final approval sampling. These will be collected by TCEQ contractors, analyzed by a certified lab, and paid for by the Public Water Supply.
8. ☐ By checking this box, submitter acknowledges that Public Water Supply systems are subject to applicable [Texas Administrative Code 30 Chapters 290, 291, 292 and 293](#).

### List of Counties where Radionuclide Testing is Required

Please be aware when you review your radiological data that if the report has gross alpha over 15 pCi/L and uraniums 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. For more information go to following [website](#).

COUNTY	STATE CODE#
Atascosa	007
Bexar	015
Bosque	018
Brazoria	020
Brewster	022
Burnet	027
Concho	048
Culberson	055
Dallam	056
Erath	072
Fort Bend	079
Frio	082
Gillespie	086
Gray	090
Grayson	091
Harris	101
Hudspeth	115
Irion	118
Jeff Davis	122
Kendall	130
Kerr	133
Liberty	146
Llano	150
Lubbock	152

Continued	
McCulloch	154
Mason	160
Matagorda	161
Medina	163
Montgomery	170
Moore	171
Parker	184
Pecos	186
Polk	187
Presidio	189
Refugio	196
San Jacinto	204
San Saba	206
Tarrant	220
Tyler	229
Upton	231
Val Verde	233
Victoria	235
Walker	236
Washington	239
Wichita	243
Zavala	254