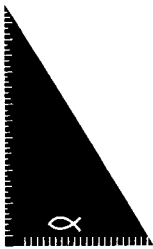


Control Number: 47093



Item Number: 12

Addendum StartPage: 0



BLEYL ENGINEERING

PLANNING • DESIGN • MANAGEMENT

1722 Broadmoor, Suite 210
Bryan, Texas 77802
Tex. Reg. No. F-678
www.bleylengineering.com

2017 AUG 21 PM 1:49

PUBLIC UTILITY COMMISSION
FILING CLERK

August 18, 2017

Public Utility Commission of Texas
Attention: Filing Clerk
1701 N. Congress Avenue
Austin, Texas 78711-3326

Reference: Docket No. 47093 (Tracking Number NSUFKJKM)
Water CCN Application for
Petra Firma Development Group, Inc.
Bleyl Engineering Project No. 11806

To whom it may concern:

On behalf of our client, Petra Firma Development Group, Inc. ("Petra Firma"), we are submitting the "approved for construction" letter from the TCEQ for construction a new water system. This submittal is an addendum to our Certificate of Convenience and Necessity ("CCN") application (Docket No. 47093).

On April 24, 2017, we filed an application package for a new water CCN to the PUC. After PUC comments on the application were addressed, the PUC issued a Commission Staff's Recommendation on Sufficiency. One of the outstanding items not previously addressed was the final approval of construction plans by the TCEQ. That approval was obtained by letter from the TCEQ dated August 7, 2017. This submittal is to file that approval letter with the PUC.

If you have any questions or need additional information, please contact me by phone or by e-mail at twolff@bleylengineering.com.

Sincerely,

Tim Wolff, P.E.
Project Manager
Bleyl Engineering
1722 Broadmoor, Suite 210
Bryan, TX 77802
(979) 268-1125

cc: Petra Firma Development Group, Inc..

Mr. David Jensen, President

12

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 28, 2017

RECEIVED

AUG 07 2017

Mr. Jason Clinton, P.E.
SKG Engineering
706 S. Abe St.
San Angelo, TX 76903

Re: The Haciendas at Christoval Ranch - Public Water System (PWS) ID No. 2260113
Proposed Wells and PWS - Phase I
Engineer Contact Telephone: (325) 655-1288
Plan Review Log No. P-05162017-093
Tom Green County, Texas

CN605299064; RN109875062

Dear Mr. Clinton:

On May 16, 2017, the Texas Commission on Environmental Quality (TCEQ) received planning material for the proposed wells and PWS. Based on our review, 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 meets the following requirement(s):

- The well location 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 **exception**.*

*For information about the **exception** process, please go to the URL below:

<http://www.tceq.texas.gov/drinkingwater/trot/exception>

Please note that an "Exception Request Form" (available as a link to the webpage above) must be completed for all exception submittals. If after you have reviewed the information available at the webpage above you have a question regarding the exception process, please call (512) 239-4691 and ask to speak to a member of the Technical Review and Oversight Team about exceptions.

- Three corrosive indices (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.

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 john.lock@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 Interim Approval (Step 2)". We provide this checklist to help you in obtaining approval to use this well.

The submittal consisted of 10 sheets of engineering drawings, technical specifications and an engineering summary. **The proposed project consists of:**

- Water Well No. 1 drilled to 150 feet with 110 linear feet (lf) of 6-inch id SDR21 polyvinyl chloride (PVC) casing, pressure-cemented 110 lf; 40 lf of 6-inch id slotted PVC screen with gravel pack. The well is rated for 30 gallons per minute (gpm) yield with a 5 horsepower submersible pump. The design capacity of the pump is 30 gpm at 260 feet total dynamic head.
- Water Well No. 2 drilled to 150 feet with 110 linear feet (lf) of 8-inch id stainless steel casing, pressure-cemented 110 lf; 40 lf of 8-inch id stainless steel screen with gravel pack. The well is rated for 110 gallons per minute (gpm) yield with a 10 horsepower submersible pump. The design capacity of the pump is 110 gpm at 260 feet total dynamic head.
- One 21,000 gallon AWWA D100 welded steel ground storage tank;
- One 5,000 gallon ASME welded steel pressure tank;
- Four 25 horsepower booster pumps rated at 125 gpm each;
- Sodium hypochlorite disinfection;
- Intruder resistant fencing;
- Various lengths of 2.5-inch and 3-inch ASTM D2241 SDR26 PVC raw waterline;
- Various lengths of 6-inch and 8-inch AWWA C900 minimum CL150 PVC waterline.

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

The Haciendas at Christoval Ranch public water system provides water treatment.

The wells are located on Vaquero Trail approximately 1 mile south of FM 2335 in Tom Green County.

An appointed engineer must notify the TCEQ's Region 8 Office in San Angelo at (325) 481-8061 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-05162017-093** 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.

Mr. Jason Clinton, P.E.

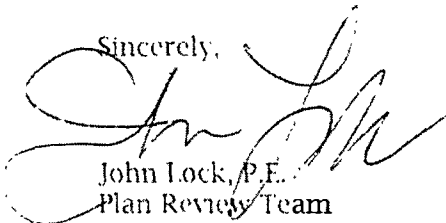
Page 4

July 28, 2017

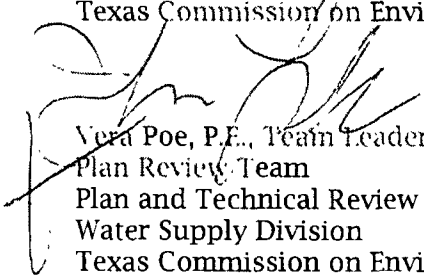
If you have any questions, please contact John Lock at (512)239-4710 or by email at john.lock@tceq.texas.gov or by correspondence at the following address:

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/db

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

cc: Petra Firma Development Group, Inc., P.O. Box 1669, San Angelo, TX, 76902