



Control Number: 46009



Item Number: 22

Addendum StartPage: 0



WATERENGINEERS, INC.

WATER & WASTEWATER TREATMENT CONSULTANTS

17230 HUFFMEISTER ROAD, SUITE A-CYPRESS, TEXAS 77429-1643

TEL: 281-373-0500 FAX: 281-373-1113

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2017 MAY 22 AM 10:49

PUBLIC UTILITY COMMISSION
FILING CLERK

May 19, 2017

Public Utility Commission of Texas
Central Records
1701 N. Congress, Suite 8-100
Austin, TX 78701

Re: Application from Crystal Springs Water Company, Inc.
to Amend Water CCN No. 11373 and Sewer CCN No. 20906 in Montgomery County, TX
Docket No. 46009

Dear Public Utility Commission of Texas:

Please accept the attached TCEQ letter for "Approval to Construct" the water plant for the Ponderosa Pines Subdivision, which is area associated with the above referenced CCN amendments.

Please feel free to contact me if you require any additional information or if you have any questions regarding this submittal.

Sincerely,
WATERENGINEERS, INC.

Shelley Young, P.E.
Project Engineer

Encl. - 7 copies of attachments

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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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 29, 2016

RECEIVED AUG 04 2016

Mr. D. Ray Young, P.E.
Water Engineers, Inc.
17230 Huffmeister Road, Suite A
Cypress, Texas 77429-1643

Re: Ponderosa Pines Water System - Public Water System ID No. 1700868
Proposed Well, Ground Storage Tank, Hydropneumatic Pressure Tank and Chemical
equipment
Engineer Contact Telephone: (281) 373-0500
Plan Review Log No. P-05312016-172
Montgomery County, Texas

CN605194232; RN109279620

Dear Mr. Young:

On May 31, 2016, the Texas Commission on Environmental Quality (TCEQ) received planning material with your letter dated May 20, 2016 for the referenced project. 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 conditionally approved for construction if the project plans and specifications meet the following requirement:

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 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 emailing Craig.Stowell@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.

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

- One (1) public water supply well drilled to 291 feet with 265 linear feet (lf) of 6-inch outside diameter (od) steel casing and pressure-cemented 265 lf;
- 26 lf of 4-inch od stainless steel slot screen, 10 lf of 4-inch od blank liner;
- The well is rated for 177 gallons per minute (gpm) yield with a 15 horsepower (HP), 3-inch pump set at 252 feet deep. The design capacity of the pump is 177 gpm at 290 feet total dynamic head (TDH);
- One (1) 83,440 gallon AWWA standard D103 bolted steel ground storage tank;
- Three (3) 350 gpm service pumps;
- One (1) 5,072 gallon American Society of Mechanical Engineers Section VIII Division 1 steel hydropneumatic pressure tank;
- Two (2) 150 lb. chlorine gas cylinder tanks; and
- All necessary yard piping, fittings and related appurtenances.

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

The Ponderosa Pines Water System public water system provides water treatment.

The project is located near the northeast corner of Old Highway 105 in Montgomery 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 §290.39(h)(3).

Please refer to the Plan Review Team's Log No. P-05312016-172 in all correspondence for this project.

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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.

<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.

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If you have any questions concerning this letter or need further assistance, please contact Mr. Craig A. Stowell, P.E. at (512) 239-4633 or by email at craig.stowell@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,



for
Craig A. Stowell, 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/CAS/pg/an

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

cc: Ponderosa Pines Water System, Attn: Mr. Tom A. Martin, President,
P.O. Box 603, Porter, Texas 77365-0603

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 interim use of the well.

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

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.

COUNTY	STATE CODE
Atascosa	007
Bandera	010
Bexar	015
Bosque	018
Brazoria	020
Brewster	022
Burnet	027
Concho	048
Culberson	055
Dallam	056
Dawson	058
Erath	072
Fort Bend	079
Frio	082
Garza	085
Gillespie	086
Gray	090
Grayson	091
Harris	101

COUNTY	STATE CODE
Hudspeth	115
Irion	118
Jeff Davis	122
Jim Wells	125
Kendall	130
Kent	132
Kerr	133
Kleberg	137
Liberty	146
Llano	150
Lubbock	152
McCulloch	154
Mason	160
Matagorda	161
Medina	163
Midland	165
Montgomery	170
Moore	171

COUNTY	STATE CODE
Parker	184
Pecos	186
Polk	187
Presidio	189
Refugio	196
San Jacinto	204
San Saba	206
Tarrant	220
Travis	227
Tyler	229
Upton	231
Val Verde	233
Victoria	235
Walker	236
Washington	239
Wichita	243
Williamson	246
Zavala	254

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