

Control Number: 46948



Item Number: 13

Addendum StartPage: 0

46948



Wet Rock Groundwater Services, L.L.C. Groundwater Specialists

TBPG Firm No: 50038
317 Ranch Road 620 South, Suite 203
Austin, Texas 78734 • Ph: 512-773-3226
www.wetrockgs.com

RECEIVED

2017 JUL 17 AM 9: 22

PUBLIC UTILITY COMMISSION

July 12, 2017

Public Utility Commission Water Utilities Division 1701 N. Congress Avenue P. O. Box 13326 Austin, Texas 78711-3326

Re: Notices, Affidavits, Maps, and Approval to Construct Public Water System for Vineyard Ridge, LLC Application to Obtain a New Water Certificate of Convenience and Necessity

CN: 605360155; RN: 109798421 (Vineyard Ridge Water Supply – PWS# 0860144)

Dear Mr. T.J. Harris:

The individual notices and public notice that PUC staff required have been sent and published. The individual notices were sent to Gillespie County WCID 1, Hill Country Underground Water Conservation District, Lower Colorado River Authority, Gillespie County Judge, and Vineyard Ridge, LLC (the only property owner of more than 25 acres within the proposed area) per PUC staff's recommendations included in the Commission Staff's Supplemental Recommendation on Administrative Completeness signed and dated by you on June 16, 2017. Please see the attached affidavit, the certified mail receipts, copies of the notices, and a copy of the map that was included with the notices. In addition, a copy of the public notice that was published in the Fredericksburg Standard-Radio Post (newspaper of general circulation in the area) on July 5 and 12, 2017, a copy of the affidavit signed and notarized by Fredericksburg Standard-Radio Post staff, and a copy of the map that is on file at Vineyard Ridge, LLC's office in Stonewall for any members of the public who wish to review the map.

Vineyard Ridge Water Supply has also received notice from Texas Commission on Environmental Quality (TCEQ) that the public water system has been conditionally approved for construction. The approval letter from the TCEQ is also included with this letter.

Please call me at 512-906-6291 if you have any questions or require additional information.

Respectfully submitted,

Wet Rock Groundwater Services, L.L.C.

Bryan Boyd, P.G.

Senior Hydrogeologist

Individual Notices Affidavit

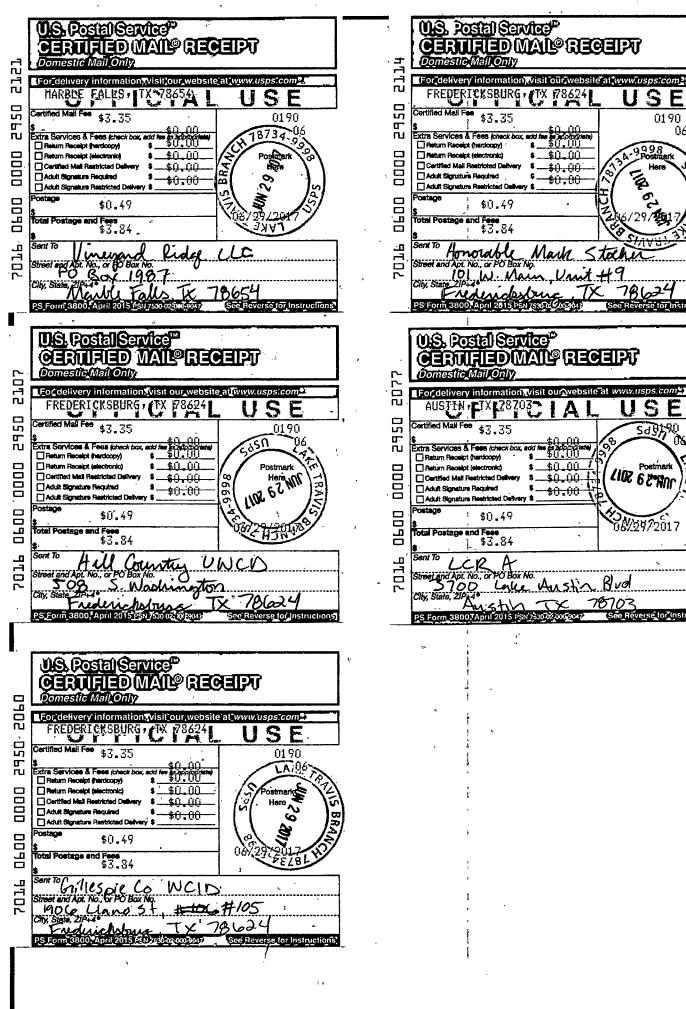
PUBLIC UTILITY COMMISSION



AFFIDAVIT OF NOTICE TO NEIGHBORING UTILITIES, LANDOWNERS AND CITIES DOCKET NO._46948

STATE OF TEXAS		• .	١.,	-	•		•
COUNTY OF Gillespie						,	
Vineyard Ridge, LLC		٠.	† ~]	has provid	led individu	al
notice to the following entities and landow	mers:		*1		- ,		
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Vineyard Ridge, LLC; Gillespie County Judge Ma	<u>ırk</u>	r .	1		June 29	; 2017	
Stoeher, Hill Country Underground Water Conservation	vation		τ }				,
District; Lower Colorado River Authority; Gillespi	ie	:.	1		*		
County Water Control and Improvement District			,	•			
	1	OATH	4				
İ, Bryan Boyd		,	being o	luly sw	orn, file	this form	as
an authorized representative						plicant, that	
owner, member of partnership, title of offic	cer of	corporat	ion, or c	ther aut	horized r	epresentativo	e of
applicant); that in such capacity, I am qua	lified	and autl	horized	to file a	nd verify	such form,	am
personally familiar with the notices given							
requirements in the application and applica							
and matters set for therein are true and corn		A ,					
Mhal							
	24		Ĭ				
Applicant's Authorized Representative			. 1			,	•
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If the applicant to this form is any person of	her th	an the sol	e owner	, partne	r. officer o	of the applica	ant.
or its' attorney, a properly verified Power of	of Ätte	ornev mu	ist be en	closed.	.,	' abbroa	
	K	th_th	À	•			
Subscribed and sworn to before me this	7/	ς ΄	day of _	Jul	7	, 20r	7
to certify which witness my hand and seal	of offi	ice.			/		٠,
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			•				
Notary Public in and for the State of Texas							
Richard Alan Gidden Jr							
		3	all the second			,	
Print or Type Name of Notary Public	- ,	*			11.01.01	ODENS JR	
Print or Type Name of Notary Public	-,	1	N. P. W. W.	RICHA	RD ALAN G	DDENS JR	
Print or Type Name of Notary Public Commission Expires (/3)/2021		*			RD ALAN GI ry Public, Siz Expires 01/31	/2021	

Certified Mail Receipts for Individual Notices



Individual Notices

Notice to Neighboring Systems, Landowners and Cities

NOTICE OF APPLICATION TO OBTAIN A CERTIFICATE OF CONVENIENCE AND NECESSITY (CCN) TO PROVIDE WATER UTILITY SERVICE IN GILLESPIE COUNTY, TEXAS

To:	Vineyard Ridg			Date Notice Mailed: June 28, 20			
,	(Neighboring Sy 14246 E. US H		ner or City)		! !	5 5°	
	(Address) Stonewall	TX ·	78671				4
	(City	State		Zip)	Ť		

Vineyard Ridge, LLC, has filed an application with the Public Utility Commission of Texas to obtain a Certificate of Convenience and Necessity for the provision of retail water utility service in Gillespie County.

The requested area is located approximately 14 miles northeast of downtown Fredericksburg, Texas, and is generally bounded on the north by North Grape Creek Road; on the east by North Grape Creek Road on the south by FM 2721; and on the west by Dry Hollow Road (CR 109).

The total requested area includes approximately 660 acres and 0 current customers.

See enclosed map showing the requested area.

You may request a public hearing. A request for a public hearing must be in writing and include: (1) your name, mailing address, and daytime telephone number; (2) the Utility's name, docket number or another recognizable reference to this application; (3) the statement, "I/we request a public hearing"; (4) a brief description of how you or the persons you represent, would be adversely affected by the granting of the application for a CCN; and (5) your proposed adjustment to the application which would satisfy your concerns and cause you to withdraw your request for a hearing.

Hearing requests, comments or requests to intervene should be filed with the:

Public Utility Commission of Texas
Central Records
1701 N. Congress, P. O. Box 13326
Austin, TX 78711-3326

within thirty (30) days from the date of this publication or notice. A public hearing will be held only if a legally sufficient hearing request is received or if the Commission on its own motion requests a hearing. Only those individuals who submit a written request will receive notice if a hearing is scheduled.

If a valid public hearing is requested, the Commission will forward the application to the State Office of Administrative Hearings (SOAH) for a hearing. If no settlement is reached and an

evidentiary hearing is held, SOAH will submit a recommendation to the Commission for final decision. An evidentiary hearing is a legal proceeding similar to a civil trial in state district court.

A landowner with a tract of land at least 25 acres or more, that is partially or wholly located within the requested area, may file a written request with the Commission to be excluded from the requested area ("opt out") within (30) days from the date that notice was provided by the Utility. All opt out requests must include a large scale map and a metes and bounds description of the landowner's tract of land.

Persons who wish to request this option should file the required documents with the:

Public Utility Commission of Texas Central Records 1701 N. Congress, P. O. Box 13326 Austin, TX 78711-3326

In addition, the landowner must also send a copy of the opt out request to the Utility. Staff may request additional information regarding your request.

Si desea informacion en Espanol, puede llamar al 1-512-936-7221.

Notice to Neighboring Systems, Landowners and Cities

NOTICE OF APPLICATION TO OBTAIN A CERTIFICATE OF CONVENIENCE AND NECESSITY (CCN) TO PROVIDE WATER UTILITY SERVICE IN GILLESPIE COUNTY, TEXAS

To:	LCRA				_	Daté Notice Mailed: June 28, 2017
v	(Neighboring S	ystem, Landow	ner or City)			<i>*</i>
	3700 Lake Aus	tin Blvd				
	(Address)			, s	*	
	Austin	, TX	78703	•		
	(City	State	•	Zip)	•	

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To:	,Gillespie County V	WCID				Date Notice	Pate Notice Mailed: June 28, 20	28 . 2017
	(Neighboring System 1906 N. Llano St.,		ner or City)	,	1		*	
	(Address) Fredericksburg	TX	78624	,	4			
	(City	State		Żip)	+	•		,

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Notice to Neighboring Systems, Landowners and Cities

NOTICE OF APPLICATION TO OBTAIN A CERTIFICATE OF CONVENIENCE AND NECESSITY (CCN) TO PROVIDE WATER UTILITY SERVICE IN GILLESPIE COUNTY, TEXAS

То:	Hill Country Unde (Neighboring Systems 508 South Washing)	em, Landov		Date Notice Mailed: June 28, 2017	
,	(Address) Fredericksburg (City	TX State	78624	Zip)	

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Notice to Neighboring Systems, Landowners and Cities

NOTICE OF APPLICATION TO OBTAIN A CERTIFICATE OF CONVENIENCE AND NECESSITY (CCN) TO PROVIDE WATER UTILITY SERVICE IN GILLESPIE COUNTY, TEXAS

To:	The Honorable Ma	ark Stoeher			Date Notice Mailed: June 28, 2017		
	(Neighboring Syst 101 W. Main, Uni	•	vnër or City)				
	(Address)				•		
£w-	Fredericksburg	TX	78624				
	(City	State		Zip)	•		

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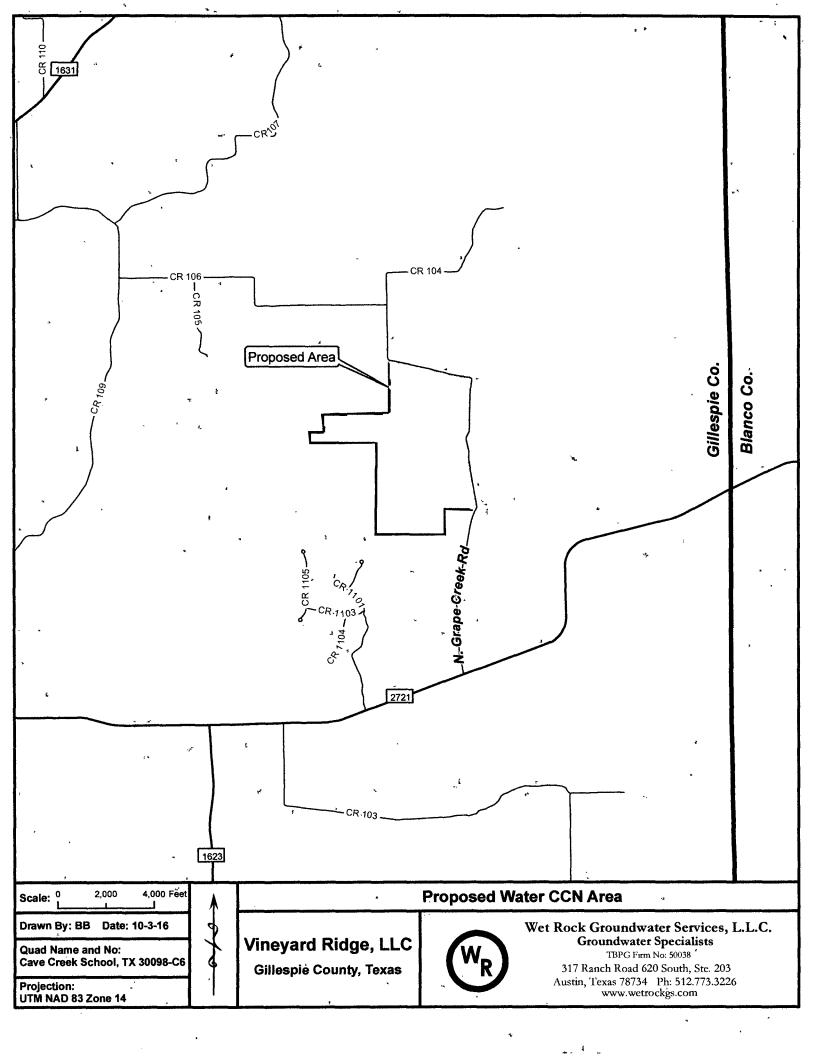
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Map Included with Individual Notices



Public Notice Published in Fredericksburg Standard-Radio Post

PUBLIC NOTICE

NOTICE FOR PUBLICATION Docket No. 46948

NOTICE OF APPLICATION TO OBTAIN A CERTIFICATE OF CONVENIENCE AND NECESSITY (CCN) TO PROVIDE WATER UTILITY SERVICE IN GILLESPIE COUNTY, TEXAS

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A copy of the map showing the requested area is available at: 14246 E. US Hwy. 290, Stonewall, Texas 78671 – ph. 800-511-2430.

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05-06

Affidavit signed by Fredericksburg Standard-Radio Post Staff

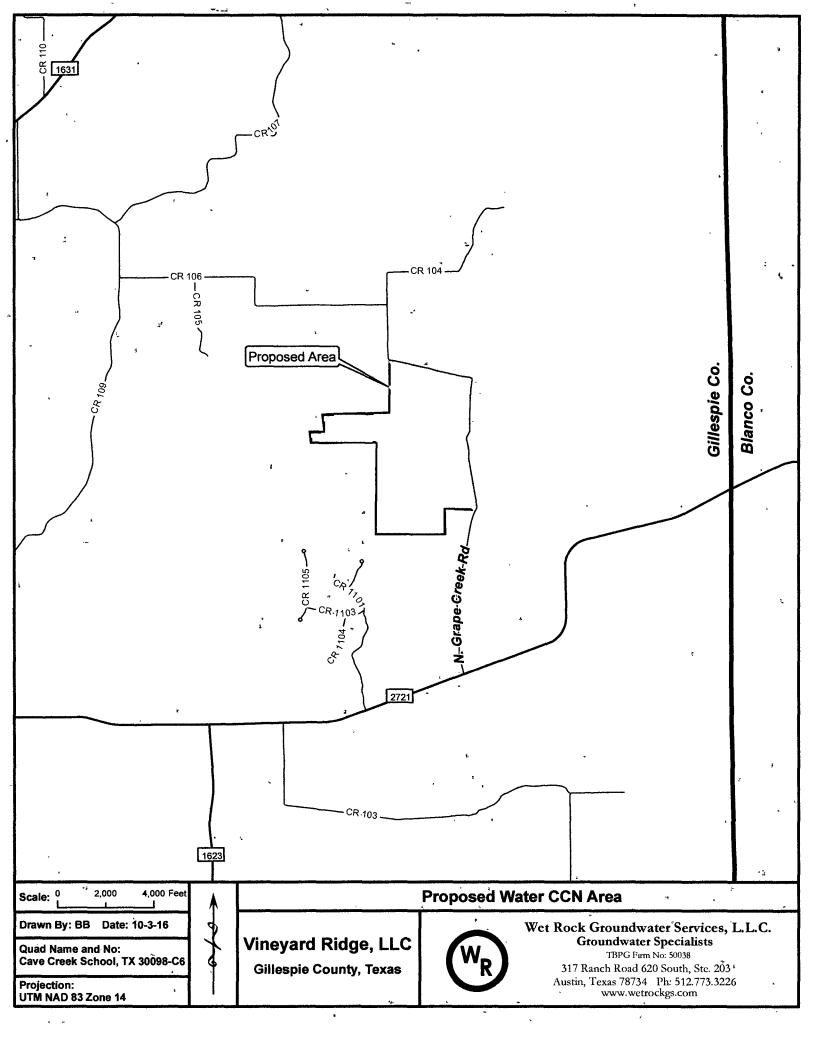
PUBLIC UTILITY COMMISSION



PUBLISHER'S AFFIDAVIT DOCKET NO. _46948_

STATE OF TEXAS COUNTY OF Gillespie		, .
Before me, the undersigned author	rity, on this day personally appear	ared
Ken Estén Cooke	, who being by me duly swor	m, deposes and that (s)he is the
publisher 'of the	e Fredericksburg Stan	dard-Radio Post
(TITLE)	(NAME OF NI	
that said newspaper is regularly pu Gillespie County	iblished in	*
	(COUNTY/CO	UNTIES) -
and generally circulated inGil.		g Texas;
	(COUNTY/COUNTIES)	
and that the attached notice was pu		e following dates, to wit:
July 5, 2017 & c	(DATES)	
19hEBL Cour		
(SIGNATURE OF NEWSPAPER RE	PRESENTATIVE)	,
Subscribed and sworn to before me	e this 12th day of	July
to certify which witness my hand	and seal of office.	
Notary Public in and for the States	NATHAN W. C	Public F TEXAS
Nathan W. Crenwelge		
Print or Type Name of Notary Pub	olic * . * *	1
Commission Expires 8-30-201	<u>. </u>	

Map on File at Vineyard Ridge, LLC Stonewall Office



Letter from TCEQ Conditionally Approving Construction of Vineyard Ridge Public Water System

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



PWS_0860144_CO_20170530_Plan Ltr

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

May 30, 2017

Mr. Garrett D. Keller, P.E. Matkin-Hoover Engineering, Inc. 8 Spencer Road Boerne, Texas 78006

Re:

Vineyard Ridge Water Supply - Public Water System ID No. 0860144 Proposed New Water System Engineer Contact Telephone: (830) 249-0600 Plan Review Log No. P-03312017-204 Gillespie County, Texas

CN605360155; RN109798421

Dear Mr. Keller:

On March 31, 2017, the Texas Commission of Environmental Quality (TCEQ) received planning material with your letter dated March 30, 2017 along with revisions dated May 23, 2017 for the proposed New Water 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 if the project plans and specifications meet the following requirement(s):

- 1. 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.
- 2. The copy of the recorded deed and map demonstrates that the public water system owns the well property and all surrounding acreage at this time and intends to provide sanitary control and access to the wells via easements once the property is developed. Draft easements were provided as part of the submittal (see 30 TAC §290.41(c)(1)(F)(iv)(I)-(II)). For any real property within 150 feet of the well not owned by the public water system, a sanitary control easement or sanitary control easements as filed at the county courthouse (bearing the county clerk's stamp) shall be obtained, as described in 30 TAC §290.41(c)(1)(F). Please provide a copy of the recorded deed and a map showing all land owned by the public water system within 150 feet of the well and for any land within 150 feet of the well not owned by the public water system (or to be sold as property is developed) provide copies of all recorded sanitary control easements with the well completion materials. Should there be property within 150 feet of the well for which a sanitary control easement cannot be obtained an exception may be required as described below.

P.O. Box 13087 • Austin, Texas 78711-3087 • 512-239-1000 • tceq.texas.gov

Mr. Garrett D. Keller, P.E. Page 2 May 30, 2017

3. The PWS has applied to the Public Utility Commission (PUC) for a Certificate of Convenience and Necessity (CCN) for the system. The system should obtain a CCN prior to providing water service to customers.

Exceptions to the above rules must be requested in writing and must be substantiated by carefully documented data. The request for an exception shall precede the submission of engineering plans and specifications for a proposed project for which an exception is being requested as required in 30 TAC Section 290.39 (l)(1). Written exception request must be submitted to the TCEQ's Technical Review and Oversight Team (TROT) at the following address:

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

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" 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 TROT about exceptions.

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 David.Yager@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:

- Two (2) public water supply well drilled to 400 feet with 180 linear feet (lf) of 6.625-inch outside diameter (od) steel casing and pressure-cemented 180 lf;
- ' 220 linear feet of 6.25-inch underream bare hole with no gravel pack;

- The wells are rated for 50 gallons per minute (gpm) yield with a 7.5 horsepower, submersible pump set at 334 feet deep. Well No. 1 has a design capacity of 50 gpm at 384 feet total dynamic head (TDH) and Well No. 2 has a design capacity of 50 gpm at 392 TDH.
- One (1) 43,000 gallon American Water Works Association (AWWA) D-103 Factory-Coated Bolted Carbon Steel Ground Storage Tank;
- One (1) 4,000 gallon American Society of Mechanical Engineers (ASME) Section VIII, Division I, Hydropneumatic Pressure Tank;
- Two (2) 160 gallon per minute (gpm) service pumps;
- One (1) Disinfection system consisting of two (2) 10 pound per day gas chlorinators and two (2) 150 lb. bottles of chlorine gas;
- 4,188 lf of 6-inch AWWA C900 Polyvinyl Chloride (PVC) DR 18 raw water transmission main;
- 730 If of 4-inch AWWA C900 PVC DR 18 raw water transmission main;
- 10,678 lf of 6-inch AWWA C900 PVC DR 18 Distribution Main;
- 7,565 lf of 4-inch AWWA C900 PVC DR 18 Distribution Main;
- 5,144 lf of 2-inch Schedule 40 ASTM D1785 PVC Distribution Line:
- Various valves, 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 Vineyard Ridge Water System public water system provides water treatment.

The project is located approximately 6 miles north of Stonewall, Texas and 0.40 miles west of the intersection of North Grape Creek Road and Elm Ridge Road in Gillespie County, Texas.

An appointed engineer must notify the TCEQ's Region 11 Office in Austin at (512) 339-2929 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-03312017-204 in all correspondence for this project.

Mr. Garrett D. Keller, P.E. Page 4 May 30, 2017

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 - <u>Rules and Regulations for Public Water Systems</u> from this site.

Mr. Garrett D. Keller, P.E. Page 5 May 30, 2017

If you have any questions concerning this letter or need further assistance, please contact David Ygaer at 512-239-0605 or by email at David.Yager@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 H. Yager, 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/DY/db

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

cc: Vineyard Ridge Water System, Attn. Brent Taylor, P. O. Box 631 Spicewood, Texas 78669

Mr. Garrett D. Keller, P.E. Page 6 May 30, 2017

bcc:

TCEQ Central Records PWS File 0860144
TCEQ Region No. 13 Office – San Antonio
TCEQ PWSINV, MC-155
Public Utility Commission; Attn: Tammy Benter

Public Well Completion Data Checklist For Interim Approval (Step 2)

Water Supply I Plan Review Te	Divisio am M	on IC-159	ronmental Quality xas 78711-3087	Public Water System I.D. No TCEQ Log No. P
regarding propo project approva	osed V l. Cop	Vater Soies of	upply Well Completion. Fail	
			IIIIp.//www.iceq.iexas.gov	/tules/maxpar.mim
construction by	y TCE a listed	Q. Ple d belov	ease include the well constru	er supply must have plans approved for ction approval letter with your submittal of well Q evaluation. Based on this submitted data,
1.	Cita .	man(a)	et appropriete scales showin	g the following: [§290.41(c)(3)(A)]
1.			Final location of the well wi	
, *	H		Named roadways;	in conditation,
	Ħ			hin 150 feet of the final well location and the
1		()	property owners' names;	*
	П	(iv)		final well location as the center point with radii of
		()	10 foot, 50 foot, 150 foot, an	
	\Box	(v)	Any site improvements and	
	Ħ		Any existing or potential po	
	П		Map must be scalable with a	
2.	A co			erty on which the well is located showing the
_	Publi	ic Wate	er System (PWS) as the lande	owner, and/or any of the following:
	[§290	0.41(c)	(1)(F)(iv)	
		(i)	Sanitary control easements	(filed at the county courthouse and bearing the
				ng all land within 150 feet of the well not owned
				asement see TCEQ Form 20698);
		(ii)		a copy of an ordinance or land use restriction
				political subdivision which provides an
				f sanitary protection to the well as a sanitary
			control easement; and/or	
	Ш	(iii) ,	A copy of a letter granting a	n exception to the sanitary control easement rule
, []		44*.		Review and Oversight Team.
3.	Cons		n data on the completed well	
	Ш	(i)		cluding capacity in gallons per minute (gpm),
		(::)		feet, motor horsepower, and setting depth;
	لــا	(ii)	depth;	be 3" larger than casing OD) and total well
		(iii)		erial (e.g. 200 lf of 12" PVC ASTM F480 SDR-
	لبيا	(in)	17);	Via (0.6. 200 ii 01 12 1 10 A011011 100 0010
	. [(iv)		screens, blanks, and/or gravel packs ütilized;
		(-1)	and manufaction of only	£,

		(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
	,.	(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;
	١,	(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.	\Box	Chemical analysis reports for well water samples showing the water to be of acceptable
٠.	نــا	quality for the most problematic contaminants listed below. Reports must come from a
		laboratory accredited by TCEQ; accredited to perform these test. Maximum contaminant
		level (MCL) and secondary constituent level (SCL) units are in mg/l (except arsenic).
		[§290.41(c)(3)(G) and§290.104 and §290.105]

MCL	PRIMARY	SCL	SECONDARY	SCL	SECONDARY	SCL	SECONDARY
10 (as N)	Nitrate	0.2	Aluminum	5.0	Zinc	300	Sulfate
1 (as N)	Nitrite	1.0	Copper	1,000	Total Dissolved Solids	300	Chloride
10 μg/l	Arsenic	0.3	- Iron	- 2.0	Fluoride	≥ 7.0	pН
4.0	Fluoride	0.05	Mañganese	N/A	Lead		

STATE OF THE STATE	in in the second
Parameter	Units
Alkalinity as CaCO ₃	mg/l
Calcium as CaCO ₃	mg/l
Sodium	mg/l

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.

MCL	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, μ g/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	ن 091
Harris	101

COUNTY	STATE CODE #
Hudspeth	115
Irion.	118
Jeff Davis	ı 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