WATER QUALITY 2021

Calhoun County Rural Water Supply System



PWS# 0290007

EXCELLENCE IN WATER QUALITY

GBRA Water Treatment Plant 361-552-9751

Dear Customer,

The Guadalupe-Blanco River Authority (GBRA), Calhoun County Rural Water Supply System (CCRWSS) is pleased to provide you with the 2021 Water Quality Report (January 1-December 31, 2021). We take all possible precautions to safeguard your water supply and hope you will be encouraged to learn about the high quality of water provided to you.

The federal Safe Drinking Water Act (SDWA) requires water utilities to issue an annual report to customers, in addition to other notices that may be required by law. This report explains where your drinking water comes from, what it contains, and the health risks our water testing and treatment are designed to prevent.

We are committed to providing you with information about your water supply because informed customers are our best allies in supporting improvements needed to maintain the highest drinking water standards.

We are proud to report that the Texas Commission on Environmental Quality (TCEQ) has assessed our system and determined that your drinking water, provided by the Calhoun County Rural Water System, through the Guadalupe-Blanco River Authority's surface water treatment plant, meets or exceeds all federal and state water quality standards.



The tables on this report list all substances that were detected in our treated

water, and the highest level at which they were detected. The tables also reflect the highest levels allowed by federal regulatory agencies. Please read this information carefully and if you have questions, call the numbers listed in this report.

Customer Views Welcome

The GBRA strongly supports the national primary water regulation compliance process. If you are interested in learning more about the water department, water quality, or participating in the decision-making process, there are a number of opportunities available.

Questions about water quality can be answered by calling 361-552-9751 from 8 am – 5 pm, Monday through Friday. Inquiries about public participation and policy decisions should be directed to the GBRA Port Lavaca Water Treatment Plant, P.O. Box 146, Port Lavaca, Texas 77979. For an electronic version of this document please visit: www.gbra.org/documents/publications/ccrs/2021/CalhounCounty.pdf

En Español

Este informe incluye information importante sobre el agua potable. Si tiene preguntas o commentarios sobre este informe en Espanol, favor de llamar al tel. 361-552-9751 para hablar con una personal bilingue en espanol durante las horas regulares de oficina (8 am – 5 pm).

CONSERVE WATER/SAVE WATER;										
Water Saving Tips:	Reduce indoor water usage by 40-50% by installing low-flush toilets and low flow fixtures									
	Water lawns once a week rather than a short period every day									
	Fix leaks and stop the dripping faucets									
	American Water Works Drip calculator to estimate water waste:									
	https://drinktap.org/Water-Info/Water-Conservation/Drip-Calculator									

Information about your Drinking Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPAs Safe Drinking Water Hotline at (800) 426-4791.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline (800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. We are responsible for providing high quality drinking water, but we cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.



Where Do We Get Our Drinking Water?

The Calhoun County Rural Water Supply System (CCRWSS) received its water from surface water diverted from the Guadalupe River and treated at the GBRA Water Treatment Plant operated by the Guadalupe-Blanco River Authority (GBRA).

A Source Water Susceptibility Assessment for your drinking water source was conducted by TCEQ in 2004. This report describes the susceptibility and types of constituents that may come into contact with the drinking water source based on human activities and natural conditions. The system from which we purchase our water received the assessment report. For more information on source water assessments and protection efforts at our system contact GBRA Water Treatment Plant at 361-552-9751.

Trained operators monitor and test the water, including the addition of fluoride and chloramine, to ensure that our water meets or exceeds all state and federal drinking water standards. The treated water is delivered to the city's water towers and delivered through its distribution system to you. For information on the treatment of your drinking water and water quality protection efforts, contact the GBRA Port Lavaca Water Treatment Plant at 361-552-9751.

What We Found

The following tables list the contaminants that have been found in your drinking water. USEPA requires water systems to test for more than 97 contaminants. The column marked "Highest Level at Any Sampling Point" shows the highest test results during the year. The "Source of Contaminant" column shows where the substance usually originates.

DEFINITIONS and ABREVIATIONS

Action Level (AL) – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Action Level Goal (ALG) – The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

Avg – Regulatory compliance with some MCL's are based on running annual average of monthly samples.

Maximum Contaminant Level (MCL) – the highest level of the contaminant allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) – the level of a contaminant in drinking water below which there is no known or expected health risk. MCLG's allow for a margin of safety.

Maximum residual disinfectant level or MRDL – The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum residual disinfectant level goal or MRDLG – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

NA – Not Applicable ND – Not Detected

NTU's – Nephelometric Turbidity Units

 $\mathbf{pCi/L}$ - picocuries per liter (a measure of radioactivity)

ppm – parts per million, or milligrams per liter (mg/L)

ppb – parts per hillion (ug/L)

ppb – parts per billion (ug/L)

Level 1 Assessment – A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system

Level 2 Assessment – A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E.coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.



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TABLEI	- Test results for the G	GBRA wate	er supply to The C	Calhoun Cou	inty Rural	Water Sy	stem (Sa	npled at t	the GBRA	Water T	reatmen	Plant)				
N/	D () ()	18.1 .1 .1		10	101.0		<u> </u>									
Year		Highest Level	Number	MCL	MCLG	Units of	Source of C	onstituent								
	Constituent	of Any Sample Point	of Analyses			Measure								-	_	-
norganics		Gampie Form	Analyses													
2021	Fluoride	0.52	1	4	4	ppm	Erosion of n	atural deposit	s; w ater addit	ve which pr	motes strop	na teeth: runo	ff from		_	
							fertilizer use					1				
2021	Barium	0.079	1	2	2	ppm			es; erosion of							
2021	Nitrate	0.76	1	10	10	ppm			; leaching from	septic tanks	; treated wa	stew ater effl	uent;			
								atural deposit								
2021	Chromium	ND	1	100	100	ppb			pulp mills; eros		al deposits.					
2017	Gross Beta Emitters	5.6	1	50	0	pCi/l	Decay of mir	neral and mar	n-made deposi	S.						
Organics	Linuers														_	
Year	Detected	Concentration	Number of	MCL	MCLG	Unit of	Source of C	onstituent				-				
1041	Constituent	Detected	Analyses	mol	more	Measure	000100 01 0									
2021	Atrazine	0.1	1	3	3	ppb	Runoff from	herbicide use	ed on row crop	os.				-		
	d Contaminants															
Jnregulated	contaminants are those for which	h EPA has not	established drinking wat	er standards. The	e purpose of u	unregulated c	ontaminant mo	onitoring is to	assist EPA in	determining t	he occurren	ce of				
unregulated	contaminants in drinking water a	nd whether fu	ture regulation is warrant	ted. Any unregula	ated contamina	ants detected	are reported	in the follow i	ng table. For a	dditional info	rmation and	data				
	w w .epa.gov/safew ater/ucmr/uc	mr2/index.html				1.										
Year	Constituent		Average Concentration		Range of		Reason for I	Nonitoring								
			of Analysis		Detected Leve	els										
Trihalomet			40.15		70.55	-										
2021	Chloroform		18.16		7.9-43.3				etermine wher	e certain co	ntaminants o	ccur and whe	etner it needs			
2021	Bromoform Bromodichlormethane		3.02 22.08		2.0-3.9 12.9-41.8	-	to regulate th	nose contami	nants.				-			
2021	Chlorodibromomethane				9.9-21.7											
2021 Haloacetic			15.58		9.9-21.7										_	
2021	Chloroacetic acid		ND		ND-ND		Monitoring h	elos EPA to d	etermine wher	e certain co	taminants o	ccur and whe	other it needs	_		_
2021	Dichloroacetic acid		14.4		5.9-30.6			nose contami		0 00110111 001						
2021	Trichloroacetic acid		7.1		2.7-15.7									_		
2021	Bromoacetic acid		ND		ND-ND											
2021	Dibromoacetic acid		4.3		3.3-5.2											
2021	Bromochloroacetic acid		9.1		4.9-14.7											
Disinfectio	n Byproducts															
Year	Contaminant		Average level	Minimum level	Maximum lev			Source of C								
2021	Total Haloacetic Acids		25.825	11.9	51.5	60	ppb		f drinking wate							
2021	Total Trihalomethanes		63.65	37.2	110	80	ppb	Byproduct o	f drinking wate	er disinfectio	n.					
Turbidity			6	1 11 11			1.1.1%	r	6 F							
	s no health effects. How ever, tu hisms include bacteria, viruses, a								sence of dise	ase-causing	organisms.					
Year		Highest Single	lai can cause symptoms	Low est Monthly	cramps, ularn	Turbidity	Unit of	Source of C	onstituont							
i cai		Measurement		% of Samples		Limits	Measure	Source or C	onstituent					-		
	Constituent	measurement		Meeting Limits		Limito	Modouro									
2021	Turbidity	0.22		100		0.3	NTU	Organic part	ticles.					-		_
Disinfectan	nt Residuals						1									
Year		Highest	Range of Detects	MRDL	MCLG	Units	Source of C	onstituent								
		Average	(low -high)													
2021	Chloramines	3.6785	1.0-5.0	4	4	ppm	Disinfectant	used to contr	rol microbes.							
	Organic Carbon)															
	c carbon (TOC) has no health eff						fection is nec	essary to ens	sure that wate	r does not ha	ave unaccep	table levels o	f pathogens.	Byproducts		
	on include trihalomethanes (THMs						1									
Year	Detected	Average	Minimum	Maximum		Source of C	onstituent									
0001		Measurement	Measurement	Measurement					- 144 - 44							
2021 2021	Source Water TOC Drinking Water	5.48 2.86	2.23	12.9 5.59	ppm				alth effects dir							
2021 2021	Drinking Water Removal Ratio	2.86	1.46	2.33	ppm %	Naturally oc NA	curing and the	a e are no nei	alth effects dir	ectly associa	atea with it.					
	io is the percent of TOC removed				70		noved.						-			
		.,	,	,											-	-
Coliform B	acteria						1							1	_	
				Total No. of		Likely	1							1		
					10000											
<i>N</i> aximum			E.Coli Maximum	Positive E.Coli	Violation	Source of										
Vlaximum Contaminant	Highest No. of Coliform Positive		E.Coli Maximum Containment Level	Positive E.Coli Samples	Violation	Source of Contamination										
Maximum Contaminant			Containment Level		Violation	Contamination										
Maximum Contaminant Level Goal	Positive		Containment Level System has a	Samples												_
Vlaximum Contaminant			Containment Level		V Iolation	Contamination Naturally										
<i>l</i> laximum Contaminant .evel Goal	Positive		Containment Level System has a combination of routine	Samples		Contamination Naturally present in										



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							UAL		202	1			-			
Table II	- Tests results for the Rural Water distribu			er System Cu	stomers	(As samp	led in the									
norganics			/													_
Year	Detected	Measured	Number	MCL	MCLG	Unit of	Source of C	onstituent								
	Constituent	Concentration	of			Measure										
			Analyses													
2021	Nitrogen, Nitrate	0.76-0.91	2	10	10	ppm			leeching fro	m septic tank	s; treated wa	stew ater ef	fluent; erosior	n of		
Franks A shi	Niterato in deinitino orange		0				natural depo									
	sory - Nitrate in drinking water s may rise quickly for short per											-				
	Copper (Analyzed every 3 y			1			,							-		
Year	Detected	The 90th	Number of Sites	Action Level		Unit of	Source of C	onstituent								
	Constituent	Percentile	Exceeding Action			Measure					I					
2019 2019	Lead	2.8	0	15		ppb		house hold p								
	Copper levated levels of lead can caus				and young ch	ppm pildren Lead							ervice lines a	nd		
	ing. This water supply is respo															
can minimize	e the potential for lead exposur	e by flushing yo	ur tap for 30 seconds to 2	2 minutes before u	sing water fo	or drinking or	cooking. If yo	u are conceri	ned about lea	d in your wat	er, you may					
Information	on lead in drinking water, testin	ig methods, and	steps you can take to mir	nimize exposure is	available from	m the Safe Dr	inking Water H	lotline or at ht	tp://w w w .ep	a.gov/safew	ater/lead.					
Maximum	Pasidual Disinfactant Loval	_			-								-	_		
	Residual Disinfectant Level st complete and submit disinfe		Surface Water Monthly (Denations Report	(SWMOR))n the CCR ro	nort the system	mmustorovi	de disinfecto	nt type minim	um meximum	n and evero	ne levels		_	_
Year	Disinfectant	Average	Minimum	Maximum	MRDL	Unit of	Source of C		as aisin cold				90 10 10 10 10.			
		level	level	level		Measure										
2021	Chloramine Residual	2.85	0.51	5.9	4	ppm	Disinfectant	used to contr	ol microbes.							
	lomethanes															_
Year	Detected	Average of	Range of	MCL	MCLG	Unit of	Source of C	onstituent								_
	Constituent	Sampling Points	Detected Levels			Measure							_	-		
	Total	. 30113	201010													
2021	Trihalomethanes	70.6	43.7-118.0	80	0	ppb	By-product	of drinking wa	ater chlorinati	on.						
		_											_			
	Acids (HAA5) Detected	Average of	Panga of	MCL	MCLG	Unit of	Source of C	anatituant				-	_	-		
Year	Constituent	Average of Sampling	Range of Detected	IVICL	MULG	Measure	Source or C	Unstituent								-
	Conductoria	Points	Levels			inductio										
	Total						1									
2021	Haloacetic Acids	35.6	15-61.5	60	0	ppb	By-product	of drinking wa	ater chlorinati	on.						
Coliform B	acteria			T (151 (
Maximum Contaminant	Highest No. of Coliform		E.Coli Maximum	Total No. of Positive E.Coli	Violation	Likely										
Level Goal	Positive		Containment Level	Samples	VIOIALIOIT	Source of Contamination										
				1												
			System has a			Naturally										
0	0		combination of routine	0	N	present in										
			and repeat coliform and E.coli positive samples			the environmen										
						0							-	-	_	
Violations																
	lomethanes (TTHM)															
	e w ho drink w ater containing to						their liver, kid	neys, or cent	al nervous s	ystems, and i	may have an	increased ri	sk of getting o	cancer.		
Violation T MCL, LRAA	уре	Violation Beg 4/1/2021	gin .	Violation End 6/30/2021			that the amour	t of this cont	aminant in ou	r drinking wat	er was abov	e its standar	rd (called a m	naximum conta	minant	
		1112021		0/00/2021			L) for the peri						u (ounou u n			
RTCR Routin	ne Monitoring, Minor	2/1/2021		2/28/2021	Failed to co	llect separate	samples in ac	ldition to the f	reeze event	n February.		1				
	for the Calhoun County Rural \ llion gallons) for the year or 16				-					-	-	-	_	-		
13.3 IVIG (MI	mon gallons) for the year of 16	.5 70			-						-	-				-
Secondarv	and Other Constituents No	t Regulated													-	-
(No associa	ted adverse health effects)															
Year	Constituent	Measured	Number of	Secondary	Unit of	Source of C	Constituent									
2024	Aluminum	Concentration	i .	Limit	Measure	Abundant -	aturally cost	ing clomont						_		_
2021 2021	Aluminum Bicarbonate	42.5	1	50 NA	ppb ppm		aturally occur f carbonate ro		limestone				_	-		
2021	Calcium	70.3	1	NA	ppm		aturally occur						-			
2021	Chloride	101	1	300	ppm		aturally occur		sed in water	purification, I	ovproduct of	oil field activ	ity.			
2021	Copper	0.0866	1	NA	ppm		f household p			rom natural d	eposits; leec	hing from w	ood preserva	tives.		
2021	Hardness as Ca/Mg	248	1	NA	ppm		curring calciu		sium.					_		_
2021 2021	Magnesium pH	17.5	1	NA 7	ppm units		aturally occur corrosivity of									-
2021	Nickel	0.0039	1	0.1	ppm	Weasure of	corrosivity of	water.								-
2021	Sodium	73.3	1	NA	ppm	Erosion of r	natural deposit	s. Byproduct	of oil field ad	tivity.						
2021	Zinc	ND	1	5	ppm											
2021	Sulfate Total Alkalinity	97	1	300	ppm	Naturally oc	curring, com	non industrial	byproduct, by	product of o	I field activity	·.		_		_
2021	Total Alkalinity as CaCO3	165	1	NA	ppm	Naturally on	curring solual	le mineral co	lts				_	-		
2021	Total Dissolved	103			ppm	. watarany OC	Sarring Soldal	no minorar 5d					-			
2021	Solids	491	1	1000	ppm	Total dissol	ved mineral co	nstituents in	water.							
2021	Potassium	8.23	1	NA	ppm											
2021	Cyanide	ND	1	NA	ppm	Abur dead	oturolli									_
2021	Iron	ND	1	NA	ppm	Abundant n	aturally occur	ind element.		1	1	1		1		1

