2020 Consumer Confidence Report for Public Water System RICE WSC

This is your water quality report for January 1 to December 31, 2020. For more information regarding this report contact: RICE WSC provides surface water from [insert source name of aquifer, reser Name Ada Garza voir, and/or river] located in [insert name of County or City]. Phone 903-326-5551 Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, f avor de l'amar al telefono (903) 326-5551. Definitions and Abbreviations Definitions and Abbreviations The following tables contain scientific terms and measures, some of which may require explanation. Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. Avg: Regulatory compliance with some MCLs are based on running annual average of monthly samples. 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 four nd 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. Maximum Contaminant Level or MCL: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as teasible using the best available treatment t echnology. Maximum Contaminant Level Goal or MCLG: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs 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 micro bial contaminants. Maximum residual disinfectant level goal or MRDL. 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 disi nfectants to control microbial contaminants. MFL million fibers per liter (a measure of asbestos) mrem: millirems per year (a measure of radiation absorbed by the body) na: not applicable. NTU nephelometric turbidity units (a measure of turbidity) pCI/L picocuries per liter (a measure of radioactivity)

Definitions and Abbreviations

ppb: micrograms per liter or parts per billion ppm: milligrams per liter or parts per million

ppq parts per quadrillion, or picograms per liter (pg/L) ppt parts per trillion, or nanograms per liter (ng/L)

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

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 surf ace 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 concer ns. 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 i mmunocompromised 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 m aterials and components associated with service lines and home plumbing. We are responsible for providing high quality drinking water, but we cannot control the v ariety 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 tes ted. 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.

Information about Source Water

RICE WSC purchases water from CITY OF ENNIS. CITY OF ENNIS provides purchase surface water from Lake Bardwell located in Ellis County... RICE WSC purchases water from CITY OF CORSICANA. CITY OF CORSICANA provides purchase surface water from Navarro Mills Lake and Lake Halbert locat ed in Navarro County.

In the Water Loss Audit submitted to the Texas Water Development board for the period of Jan-Dec 2020, our system lost an estimated 6,564,432 gallons of water or 2.7 %.

TCEQ completed a Source Water Susceptibility for all drinking water systems that own their sources. This report describes the susceptibility and types of constituents that may come into contact with the dr inking water source based on human activities and natural conditions. The system(s) from which we purchase our water received the assessment report. For more information on source water assessment s and protection efforts at our system contact [insert water system contact][insert phone number].

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2020	1.3	1.3	0.15	0	ppm	N	Erosion of natural deposits; Leaching from wo od preservatives; Corrosion of household plu mbing systems.

2020 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Dete cted	Range of Individua I Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2020	31	2 - 37.9	No goal for the to 6	0	ppb	N	By-product of drinking water disinfection.

[&]quot;The value in the Highest Level or Average Detected column is the highest average of all HAAS sample results collected at a location over a year

Total Trihalomethanes (TT HM)	2020	53	37.2 - 56.9	No goal for the to 80 tal	ppb	N	By-product of drinking water disinfection.
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[&]quot;The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year

Inorganic Contaminants	Collection Date	Highest Level Dete cted	Range of Individua I Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Nitrate [measured as Nitrog en]	2020	1	0.694 - 0.948	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic ta nks, sewage; Erosion of natural deposits.

Disinfectant Residual

Disinfectant Residual	Year	Average Level	Range of Levels D etected	MRDL	MRDLG	Unit of Measu re	Violation (Y/N)	Source in Drinking Water		
DLQR	2020	2.02	.65-3.6	4	4	mg/l	N	Water additive used to control microbes.		

Hegalated Substances
These agreeances are regalized or one required to be monitored and were descend in Error tap water. Note of the descend substances exceeded the regulated limits

Year Substances Units Average Minimum Maximum MCL. MCLG

Battery

3100

0.059

pper

0.059

	110000					and the state of t			THE STREET			
3130	Metolackion	ppm	0.000	4	0.0001	1000 0	0.04	0.04	Muself from Nerbicide used un row props			
3130	Arsen	ppm .	0.000	2	0.0002	0.0003	0.003	0.003	Runoff from herbidde used on row crops			
2120	Cyanide	tou.	0.141		0.148	0.145	02	0.2	Discharge from ideal/metal factories - plastic factories and nated from facilities			
2120	Serator	pps.	0.0000	06	0.0000e	0.00006	0.004	0.004	Rusself from herbidde used on now grops			
2130	Fluorida	Mari	0.747		0.342	0.342			Erosion of natural deposits, water additive which provide strong seets, discharge from facilities and aluminum factories			
2121	Nitrate (measured as Nitrages) *1	10m	1.09		1 00	100	10	10	Runoff from fertilizer, septic tarks, sewage, natural deposits			
3917	Braighteen emilian 12	pC/st.	6.5		8.5	6.5	50	0	Decay of natural and man - made deposits			
2017	Contrast Refore 235/228	prot.	1.5		1.5	13	3	0	Ensite of natural deposits			
2131	Chiramina *1	Has	101		2.01	3.41	MEDICAL	MRDLO-4	Disenfectant used to control inscribes			
2020	Total Halosperic Acids (11AAT) *4	ppb	12.5		10	30.4	90	No goal for the total	Bypriduct of drinking water distribution			
2020	Total Tribalomethases (TTHM) *4	100	32.5		29.6	38.5	80	No goal for the total	Byproduct of drinking water disinfection.			
ad Ores	esic Cartina (TDC) *5											
2000	Source Water	ppm	3.0	9	3.55	446	THE SHAPE OF	这个 师母	Naturally present in the equipment			
2101	Drinking Water	jpn.	2.3	is.	2.25	246	1		Naturally present in the environment			
3100	Removal Ratio		1.	5	1.17	2.50	"GRanovsi"		NA.			
ertidity *	•		North Company									
Year	Substance	Ceits		i Single stended	Minimum	Lewest Monthly % of Samples Meeting Limit	MCL	Turbidity Limits	Possible Source			
3131	Turbidity	NTU	0	108	0.03	100	03	03	Soil rusoff			
rad and C	Copper +7			EARLY II		N						
Year	Sabstance	Units	(AL)	a tos	Number of Size AL	MCLG	90th Percentile	Violation	Passible Source			
2019	Lead	200		16	.0	0	1.2	N	Compact of bounded plumbing systems, erosion of natural deposits			
2019	Cipper	201		13	0	1.3	0.17	N	Corresion of beauthful plunting systems, personne of senses deposits, leading from wood princriselyse.			
Year	Selecaner		Ceits	Average	Microsop	Maximum	MCI.	MCLG	Promitie Square			
2001	Chloroform	-	pph	162	915	11.4	Not Regulated	Not Regulated				
oron	Moreuline	_	pph	11	136	11.1	100	100	By-product of droking weer disinfection. No			
2100	Bostocklonstettas	_	pph	11.98	10.4	13.4	Net Regulated	Not Regulated	regulated includually, included in Tiest Tribulomethanes			
2020 3020	Differentierentiere		thp	8.47	764	9.73	No Regulated	No Regulant				
0.00	Northern	-	bbar	0.120	0.000	0.000	0.19	0.05	Abundan naturally occurring deriven			
2121	Nekal		Man .	0.0014	0.0014	-6.0014	0 (00)	0.100	Corresion of household planting evolution arosion of natural deposits			
2120	Autone		Med	g 00%)	0.00563	0.00563		0	Naturally occurring, positivos industrial by-product			
nex.	Conductions ar 21 C 130:00 CM		MHO ICM	700 DBC	380 000	380 000	NA.	Not Regulated	Conductivity of water is its ability to conduct discrin- curate. Nata or other chamicals that dissolve break down ones positive and regative tons.			
2000	CNoride	30	рот	24.2	24.2	24.2	300	Not Regulated	Chloride may get into surface water from sprogral source including make amount chloridge, agreeditatel ten-off, waste water from industries, rel well waste, and officers waste water them waste water manners place.			
2130	Hardress as CaMg		ppri	131	111	11)	NA.	NA:	Naturally neturning calcium and tragnosium			
10110	p#1		btive	2.44	7.26	7.61	97.0	>70	Monage of correspondence of mater			
2020	Soften	. 18	ppes	21.5	21.5	21.5	NA.	NA.	Erroscon of satural deposits, by-product of oil field activity			
2000	Calcum	. 18	pper	48.4	48.4	41 4	NA .	NA.	Absolute security occurring element			
0000	Magreson		ppn	2.11	259	2.53	NA.	54	Absolute naturally occurring distress			
oron.	Pitzwiere		pper	3.53	532	5.52	No Reprint	No Regulated				
130	Auton	1	pgam.	14.2	391	19.2	100	100	Abundani returnily occurring derrors hazurally occurring, continue industrial by-product, by-			
1135	Total Aliabety in CoCO1		itas .	ton	90	136	NA NA	NA NA	product of all field activity			
	48.01		327	1163.7	1000	100		76.9	Naturally occurring soluble record salts.			
2020	Tend Descriped Solid		ppra	222	222	222	1000					

1

0.019

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Possible Source Enterior of natural deposits, discharge from drilling and mutal reflection

C	etected Regulate	d Contaminate	es for 2020	
1 Navarro Mills				
SOC Pesticide	Detected Quantity	MCL	Date Collected	Analytical Method
Atrazine	0.2 ug/l	N/A	1/30/2020	E525.2 GC/MS
Metolachlor	0.1 ug/l	N/A	1/30/2020	E525.2 GC/MS
VOC's				
Acetone	5.43 ug/l	N/A	9/24/2020	E524.2 GC/MS
Cholroform	29.2 ug/l	N/A	9/24/2020	E524.2 GC/MS
Bromodichloromethane	17.4 ug/l	N/A	9/24/2020	E524.2 GC/MS
Dibromochloromethane	4.61 ug/l	N/A	9/24/2020	E524.2 GC/MS
Inorganics				
Chloride	12.8 mg/l	300.0 mg/l	1/24/2020	E300.0 Anions
Fluoride	0.620 mg/l	4.0 mg/l	1/24/2020	E300.0 Anions
Nitrate (as N)	0.0962 mg/l	10.0 mg/l	1/24/2020	E300.0 Anions
Sulfate	44.3 mg/l	300.0 mg/l	1/24/2020	E300.0 Anions
Total Dissolved Solids	186 mg/l	1000.0 mg/l	1/24/2020	SM2540C
Inorganics				
Metals Trace Elements				
Calcium	42.4 mg/l	20,000.0 mg/l	1/24/2020	E200.7 Metals, Trac
Magnesium	2.72 mg/l	20,000.0 mg/l	1/24/2020	E200.7 Metals, Trac
Potassium	3.65 mg/l	20,000.0 mg/l	1/24/2020	E200.7 Metals, Trac
Sodium Total	19.8 mg/l	20,000.0 mg/l	1/24/2020	E200.7 Metals, Trace
E200.8 ICP-MS				
Aluminum Total	0.029 mg/l	0.2 mg/l	1/24/2020	E200.8 IC-MS
Barium Total	0.044 mg/l	2.0 mg/l	1/24/2020	E200.8 IC-MS
Chromium	0.0011 mg/l	1.3 mg/l AL	1/23/2020	E200.8 IC-MS
Copper Total	0.0010 mg/l	1.3 mg/l AL	1/24/2020	E200.8 IC-MS
Manganese Total	0.0024 mg/l	0.05 mg/l	1/24/2020	E200.8 IC-MS
Nickel Total	0.0011 mg/l	.1 mg/l	1/24/2020	E200.8 IC-MS

DEFINITIONS

ug/l	parts per billion or micrograms per liter
mg/l	parts per million or milligrams per liter

	Detected Regulated Contaminates for 2020									
EP2 Lake Halbert										
SOC Pesticide	Detected Quantity	MCL	Date Collected	Analytical Method						
Atrazine	0.1 ug/l	N/A	1/23/2020	E525.2 GC/MS						
VOC's	Detected Quantity	MC/L	Date Collected	Analytical Method						
Acetone	5.90 ug/l	N/A	9/24/2020	E524.2 GC/MS						
Cholroform	31.5 ug/l	N/A	9/24/2020	E524.2 GC/MS						
Bromodichloromethane	19.3 ug/l	N/A	9/24/2020	E524.2 GC/MS						
Dibromochloromethane	4.91 ug/l	N/A	9/24/2020	E524.2 GC/MS						
Inorganics										
Chloride	10.5 mg/l	300.0 mg/l	1/23/2020	E300.0 Anions						
Fluoride	0.520 mg/l	4.0 mg/l	1/23/2020	E300.0 Anions						
Nitrate (as N)	0.189 mg/l	10.0 mg/l	1/23/2020	E300.0 Anions						
Sulfate	69.7 mg/l	300.0 mg/l	1/23/2020	E300.0 Anions						
Total Dissolved Solids	228 mg/l	1000.0 mg/l	1/23/2020	SM2540C						
Inorganics Metals Trace Elements										
Calcium Total	41.2 mg/l	N/A	1/23/2020	E200.7 Metals, Trace						
Potassium Total	4.59 mg/l	N/A	1/23/2020	E200.7 Metals, Trace						
Magnesium Total	5.49 mg/l	N/A	1/23/2020	E200.7 Metals, Trace						
Sodium Total	21.8 mg/l	N/A	1/23/2020	E200.7 Metals, Trace						
E200.8 ICP-MS										
Aluminum Total	0.022 mg/l	0.2 mg/l	1/23/2020	E200.8 IC-MS						
Barium Total	0.048 mg/l	2.0 mg/l	1/23/2020	E200.8 IC-MS						
Chromium Total	.0015 mg/l	1.3 mg/l	1/23/2020	E200.8 IC-MS						
Copper Total	.0019 mg/l	1.3 mg/l	1/23/2020	E200.8 IC-MS						

DEFINITIONS

ug/l	parts per billion or micrograms per liter
mg/l	parts per million or milligrams per liter
Only co	ntaminants at detectable level reported

						Turbi	dity and TOC	2020							
			Navar	ro Mills							Lake	Halbert			-
		NTU		10.00		TOC				NTU		T		TOC	
Month	Average	Highest	% Compliance	Raw TOC	Tap TOC	% Removal	% Compliance	Month	Average	Highest	% Compliance	Raw TOC	Tap TOC		N Compliano
Jan	0.08	0.14	100	3.6	2.9	19.4	88	Jan	0.05	0.11	100	4.67	3.22	31.0	100
Feb	0.08	0.14	100	3.84	2.58	32.8	131	Feb	0.06	0.13	100	4.39	2.70	38.5	110
Mar	0.07	0.15	100	4.03	2.55	36.7	105	Mar	0.05	0.13	100	4.63	2.73	41.0	117
Apr	0.06	0.11	100	3.93	2.58	34.4	137	Apr	0.06	0.17	100	4.5	2.90	35.6	102
May	0.09	0.18	100	3.86	2.74	29.0	193	May	0.06	0.13	100	4.44	3.00	32.4	214
Jun	0.07	0.12	100	4.03	2.6	35.5	101	Jun	0.05	0.11	100	3.87	2.48	35.9	144
lut	0.07	0.16	100	3.4	2.41	29.1	116	Jul	0.05	0.22	100	3.36	2.24	33.3	
Aug	0.09	0.15	100	3.67	2.57	30.0	120	Aug	0.04	0.08	100	3.63	2.25	38.0	133
Sep	0.08	0.14	100	3.88	2.79	28.1	112	Sep	0.04	0.15	100	3.53			152
Oct	0.08	0.26	100	3.86	2.9	24.9	99	Oct	0.04	0.07	100	3.73	2.30	38.3	153
Nov	0.08	0.14	100	3.81	2.99	21.5	100	Nov	0.04	0.08	100	-	2.38	38.0	152
Dec	0.06	0.14	100	3.94	3.14	20.3	100	Dec	0.05	0.15		3.95	2.45	37.7	151
Average	0.08		-	3.82	2.73	28.5		Dec		0.15	100	3.98	2.58	35.2	141
	0.00		-	3.04	2.17.3	48.5	116.8		0.05			4.08	2.60	36.3	139.1
			NTU	Raw TOC	Tap TDC	% Removal		TOC % con	nolisace is b	ared on co	mpliance with the	TCEO miles	705		
A	verage Both F	Plants	0.06	3.95	2.67	32.4					seed 100% compl				-
						30.1			sarterly aver		seed 100% compl	vance based	013		

TTHM's 2020

Date of Samples	1/23/2020	4/9/2020	7/21/2020	10/20/2020	
Address of Sample	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Average of Quarters
4501 E HWY 31	35.0	52.4	55.6	38.4	45.4
2117 W 15th Ave	46.6	53,3	70.2	47.6	54.4
3500 Northpark	46.2	50.8	64.2	49.1	52.6
700 E 16th Ave	44.0	50.2	59.8	45.9	50.0
Average for each quarter	43.0	51.7	62.5	45.3	50.6

Haa5's 2020

Date of Samples	1/23/2020	4/9/2020	7/21/2020	10/20/2020	
Address of Sample	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Average of Quarters
4501 E HWY 31	19.2	31.1	23.3	14.0	21.9
2117 W 15th Ave	18.8	29.6	31.0	20.0	24.9
3500 Northpark	18.5	29.4	30.6	19.0	24.4
700 E 16th Ave	14.6	27.5	17.4	13.0	18.1
Average for each quarter	17.8	29.4	25.6	16.5	22.3

Average Chlorine Residual 2020

Month	Average Residual (mg/L)		
January	2.2		
February	2.16		
March	2.04		
April	2.03		
May	1.84		
June	1.81		
July	1.86		
August	1.80		
September	2.05		
October	1.99		
November	2.14		
December	2.32		
2020 Yearly Average	2.02 mg/L		

Min reading 0.6 mg/l Max Reading 3.6 mg/l