2021 Consumer Confidence Report for Public Water System CITY OF LORENZO

This is your water quality report for January 1 to December 31, 2021

For more information regarding this report contact:

CITY OF LORENZO provides Ground Water from the Ogallala Aquifer and pump through our wells which are located at 5th st/ Van Buren, 5th st/Tyler, 6th St, and 5th St/Fillmore

Name: Chad Mobbs or Michael Chambers

Phone: (806)634-5596

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (806)634-5596

Definitions and Abbreviations

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The following tables contain scientific terms and measures, some of which may require explanation.

Action Level:

water system must follow. The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a

Avg:

Regulatory compliance with some MCLs are based on running annual average of monthly samples

Level 1 Assessment:

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

Level 2 Assessment:

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

Maximum Contaminant Level or MCI ·

The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

or MCLG: Maximum Contaminant Level Goal

allow for a margin of safety. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs

or MRDL:

Maximum residual disinfectant level 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.

goal or MRDLG:

Maximum residual disinfectant level 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.

MFL

million fibers per liter (a measure of asbestos)

mrem:

millirems per year (a measure of radiation absorbed by the body)

na:

OLN

not applicable

nephelometric turbidity units (a measure of turbidity)

pCi/L

picocuries per liter (a measure of radioactivity)

ppb:

micrograms per liter or parts per billion

ppm:

ppq

parts per quadrillion, or picograms per liter (pg/L)

milligrams per liter or parts per million

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

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

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

Contaminants that may be present in source water include:

- operations, and wildlife Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock
- 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.
- production, and can also come from gas stations, urban storm water runoff, and septic systems - Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities

public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health 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

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

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

can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead. 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 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 water, but we cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can primarily from materials and components associated with service lines and home plumbing. We are responsible for providing high quality drinking If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is

fluoride concentration of 2.61 mg/L. discoloration of their permanent teeth (dental fluorosis). The drinking water provided by your community water system City of Lorenzo has a can help prevent cavities, but children drinking water containing more than 2 milligrams per liter (mg/L) of fluoride may develop cosmetic This is an alert about your drinking water and a cosmetic dental problem that might affect children under nine years of age. At low levels, fluoride

dentist about proper use by young children of fluoride-containing products. Older children and adults may safely drink the water. has been treated to remove the fluoride to avoid the possibility of staining and pitting of their permanent teeth. You may also want to contact your developing teeth, before they erupt from the gums. Children under nine should be provided with alternative sources of drinking water or water that Dental fluorosis, in its moderate or severe forms, may result in a brown staining and/or pitting of the permanent teeth. This problem occurs only in

are also available to remove fluoride from drinking water. To learn more about available home water treatment units, you may call NSF For more information, please call Chad Mobbs, or Michael Chambers of the City of Lorenzo at (806)634-5596. Some home water treatment units International at 1-877-8-NSF-HELP.

Information about Source Water

sampling requirements for your water system is based on this susceptibility and previous sample data. Any detections of these contaminants will be Mobbs, or Michael Chambers with the City of Lorenzo at (806)634-5596. found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system contact Chad TCEQ completed an assessment of your source water, and results indicate that some of our sources are susceptible to certain contaminants. The

	lead		i de la companya de l	Copper	Lead and Copper	
09/15/2020	20/41/2000		05/25/2020	00/45/2000	Date Sampled	The same of the sa
0			1.3		MCLG	
15			1.3		Action Level (AL)	
1.4			0.088		Action Level (AL) 90th Percentile # Sites Over AL	
0			0		# Sites Over AL	
ppb			ppm		Units	
Z			Z		Violation	
Corrosion of household plumbing systems; Erosion of natural deposits.	systems:	preservatives; Corrosion of household plumbing	Erosion of natural deposits; Leaching from wood		Likely Source of Contamination	

2021 Water Quality Test Results

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2021	7.1	7.1 - 7.1	0	10	ppb	z	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
While your drinking water meet	s EPA standards for are	enic it does contain le	w levels of arsonic ED	As standard balance	the entropt and en	dending of any		While your drinking water meets EPA standards for arsenic it does contain low levels of arcenic EPAs standard belance the account of the contain low levels of arcenic EPAs standard belance the account of the contain low levels of arcenic EPAs standard belance the account of the contain low levels of arcenic EPAs standard belance the account of the contain low levels of arcenic EPAs standard belance the account of the contain low levels of arcenic EPAs standard belance the account of the contain low levels of arcenic EPAs standard belance the contain low levels of arcenic EPAs standard belance the contain low levels of arcenic EPAs standard belance the contain low levels of arcenic EPAs standard belance the contain low levels of arcenic EPAs standard belance the contain low levels of arcenic EPAs standard belance the contain low levels of arcenic EPAs standard belance the contain low levels of arcenic EPAs standard belance the contain low levels of arcenic EPAs standard belance the contain low levels of arcenic EPAs standard belance the contain low levels of a contain lo

drinking water meets the standards for arsenic, it does contain low levels of arsenic. EPAs standard balances the current understanding of arsenics possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Selenium	Nitrate [measured as Nitrogen]	Fluoride	Chromium	Barium
2021	2021	2021	2021	2021
8.6	2	2.61	5.9	0.09
8.6 - 8.6	2.26 - 2.26	2.61 - 2.61	5.9 - 5.9	0.09 - 0.09
50	10	4	100	2
50	10	4.0	100	2
ppb	ppm	ppm	ppb	ppm
Z	z	z	z	z
Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories	Discharge from steel and pulp mills; Erosion of natural deposits.	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.

Radioactive Contaminants Collection Date Highest Level Range of Individual MCLG MCL Units Violat Detected Samples	5458	ge of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters 07/17/2018 12.7 12.7 - 12.7 0 50 pCi/L* N		12.7 - 12.7	0	50	pCi/L*	Z	Decay of natural and man-made deposits.
*EPA considers 50 pCi/l to be the level of concern for beta particles							

Gross alpha excluding radon and uranium
07/17/2018
ω
3-3
0
15
pCi/L
z
Erosion of natural deposits.

Uranium 07/17/2018 9.2 9.2 - 9.2 0 30 ug/I z Erosion of natural deposits.

Disinfectant Residual

A blank disinfectant residual table has been added to the CCR template, you will need to add data to the fields. Your data can be taken off the Disinfectant Level Quarterly Operating Reports (DLQOR).

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Free Chlorine	2021	0.94	0.53-1.47	4	4	MG/L	z	Water additive used to control microbes.

Hello,

Due to the detection of fluoride levels between 2 and 4 ppm (mg/L) for the Public Water System **TX0540002**, the language below should be included in the 2021 Consumer Confidence Report:

This is an alert about your drinking water and a cosmetic dental problem that might affect children under nine years of age. At low levels, fluoride can help prevent cavities, but children drinking water containing more than 2 milligrams per liter (mg/L) of fluoride may develop cosmetic discoloration of their permanent teeth (dental fluorosis). The drinking water provided by your community water system **CITY OF LORENZO** has a fluoride concentration of **2.61** mg/L.

Dental fluorosis, in its moderate or severe forms, may result in a brown staining and/or pitting of the permanent teeth. This problem occurs only in developing teeth, before they erupt from the gums. Children under nine should be provided with alternative sources of drinking water or water that has been treated to remove the fluoride to avoid the possibility of staining and pitting of their permanent teeth. You may also want to contact your dentist about proper use by young children of fluoride-containing products. Older children and adults may safely drink the water.

Drinking water containing more than 4 mg/L of fluoride (the U.S. Environmental Protection Agency's drinking water standard) can increase your risk of developing bone disease. Your drinking water does not contain more than 4 mg/L of fluoride, but we're required to notify you when we discover that the fluoride levels in your drinking water exceed 2 mg/L because of this cosmetic dental problem.

For more information, please call CHAD MOBBS or Michael Chambers of the CITY OF LORENZO at (806) 634-5596. Some home water treatment units are also available to remove fluoride from drinking water. To learn more about available home water treatment units, you may call NSF International at 1-877-8-NSF-HELP.

This fluoride language can be found at TCEQ's Drinking Water webpage. You can find this webpage by searching the link below:

https://www.tceq.texas.gov/drinkingwater/ccr/ccr_customer_service/html

Inclusion of fluoride language in the annual CCR for systems which detected fluoride levels between 2 and 4 ppm (mg/L) is a requirement by the Code of Federal Regulations Title 40: Protection of Environment.

Please let me know if you have any questions.

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