2023 Consumer Confidence Report for Public Water System CITY OF ORCHARD

CITY OF ORCHARD provides ground water from [insert source name of aquifer, reservoir, and/or river] located in [insert name of County or City]. This is your water quality report for January 1 to December 31, 2023 **Definitions and Abbreviations** Avg: MΕ Z mrem: Maximum Contaminant Level Goal or MCLG: Maximum Contaminant Level or MCL: Level 1 Assessment: Action Level: **Definitions and Abbreviations** 3 MRDLG: Maximum residual disinfectant level goal or Maximum residual disinfectant level or MRDL Level 2 Assessment nephelometric turbidity units (a measure of turbidity) millirems per year (a measure of radiation absorbed by the body) microbial contaminants. The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of 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 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 has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions. Regulatory compliance with some MCLs are based on running annual average of monthly samples The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow million fibers per liter (a measure of asbestos) disinfectants to control microbial contaminants 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 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 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 The following tables contain scientific terms and measures, some of which may require explanation Name Melissa Andel Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (________. Phone 979 478 6893 For more information regarding this report contact:

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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

resulting from the presence of animals or from human activity. 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 The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over

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 be obtained Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence

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

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 public water

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 for health

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

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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 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 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 from materials and components associated with service lines and home plumbing. We are responsible for providing high quality drinking water, but we If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

Information about Source Water

based on this susceptibility and previous sample data. Any detections of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system contact [insert water system contact][insert phone number] TCEQ completed an assessment of your source water, and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system is

Lead and Copper	Date Sampled	MCLG	Action Level (AL) 90th Percentile # Sites Over AL	90th Percentile	#Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	08/11/2022	1.3	1.3	0.051	0	ppm	Z	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

2023 Water Quality Test Results

Arsenic 04/26/2022 7.1 7.1-7.1 0 10 ppb N Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.	Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Violation Likely Source of Contamination
	Arsenic	04/26/2022	7.1	7.1-7.1	0	10	ррь	z	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.

health effects such as skin damage and circulatory problems. 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 While your drinking water meets EPA 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

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Barium	04/26/2022	0.191	0.191 - 0.191	2	2	wdd	z	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Chromium	04/26/2022	11.9	11.9 - 11.9	100	100	ppb	z	Discharge from steel and pulp mills; Erosion of natural deposits.
Fluoride	02/24/2021	0.17	0.17 - 0.17	4	4.0	ppm	z	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2023	0.48	0.48 - 0.48	10	10	ppm 🕶	z	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	04/26/2022	12.9	12.9 - 12.9	50	50	ppb	z	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from

Radioactive Contaminants Collection Date	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Violation Likely Source of Contamination
Gross alpha excluding radon and uranium	04/26/2022	ဒ	3-3	0	15	рСі/L	z	Erosion of natural deposits.
Uranium	04/26/2022	1.5s	1.5 - 1.5	0	30	ug/l	z	Erosion of natural deposits.

Xylenes	Volatile Organic Contaminants
2023	Collection Date
0.0015	Highest Level Detected
0.0009 - 0.0015	Range of Individual Samples
70	MCLG
10	MCL
ppm	Units
Z	Violation
Discharge from petroleum factories; Discharge from chemical factories.	Violation Likely Source of Contamination

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	Average Level Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Violation (Y/N) Source in Drinking Water
	2023	1.9725 0,92-3.	0,92-3.2	4	4		ppm	Water additive used to control microbes.

Violations

Chlorine

Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.

Violation Type	Violation Begin		Violation End Violation Explanation
Disinfectant Level Quarterly Operating Report (DLQOR).	01/01/2023	03/31/2023	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Consumer Confidence Rule

The Consumer Confidence Rule requires community water systems to prepare and provide to their customers annual consumer confidence reports on the quality of the water delivered by the systems.

Violation Type CCR ADEQUACY/AVAILABILITY/CONTENT	Violation Begin	End	Violation Explanation We failed to provide to you our drinking water customers, an annual report that adequately
CCR ADEQUACY/AVAILABILITY/CONTENT	07/01/2023	2023	We failed to provide to you, our drinking water customers, an annual report that adequately informed you about the quality of our drinking water and the risks from exposure to contaminants detected in our drinking water.

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