



Copeville SUD

Strengthening our community with
quality and service

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Annual Drinking Water Quality Report

TX0430029

COPEVILLE SUD

Annual Water Quality Report for the period of January 1, 2023, thru December 31, 2023,

For more information regarding this report contact:

COPEVILLE SUD provides purchased surface water from Lake Lavon located in Collin County and Leonard are located in Fannin County. This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.

Name: Ross Brookbank, General Manager
Phone: 972-853-4630

COPEVILLE SUD is a Purchased Surface Water System
Regular Monthly Board Meeting
Second, Thursday of Every Month at 7:00 pm
16120 FM 1778 Nevada, TX 75173

Este reporte incluye información importante sobre el agua para tomar. Para Asistencia en español, favor de llamar al telefono (972) 853-4630.

Definitions and Abbreviations:

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

Action Level:

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

Action Level Goal (AGL):

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

Avg:

Regulatory compliance with some MCL's is 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 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.

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 feasible using the best available treatment technology.

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 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.
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)
PPB:	Micrograms per liter or parts per billion – or one ounce in 7,350,000 gallons of water.
PPM	Milligrams per liter or parts per million – or one ounce in 7,350 gallons of water.
PPQ:	Parts per quadrillion, or pictograms per liter (pg/L)
PPT:	Part 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) 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 EPA's Safe Drinking Water Hotline at (800) 426-4791.

Contaminants that may be present in source water include:

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

Information about Source Water

COPEVILLE SUD purchases water from the CITY OF FARMERSVILLE. The CITY OF FARMERSVILLE provides purchase service water from LAKE LAVON Collin County.

COPEVILLE SUD purchases water from NORTH TEXAS MWD WYLIE WTP. NORTH TEXAS MWD WYLIE WTP provides purchased surface water from LAKE LAVON Collin County.

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 drinking 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 assessments and protection efforts at our system, please contact Terry Strickland at 972-853-4630.

Lead and Copper							
Lead and Copper	Date Sampled	Action Level (AL)	90th Percentile	#Sites Over AL	Units	Violation	Likely Source of Contamination
Lead	2022	15	1.34	0	ppb	No	Corrosion of household plumbing systems; erosion of natural deposits
Copper	2022	1.30	0.425	0	ppm	No	Erosion of natural deposits; leaching from wood preservatives; corrosion of household plumbing systems

ADDITIONAL HEALTH INFORMATION FOR LEAD: 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. Copeville Special Utility District is responsible for providing high quality drinking water but 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>.

Copeville Special Utility District Water Quality Data for year 2023 Coliform Bacteria

Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest # of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total # of Positive E. Coli or Fecal Coliform Samples	Likely Source of Contamination
0	1 positive monthly sample	1	0	1	Naturally present in the environment

NOTE: Reported monthly test found no fecal coliform bacteria. Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, bacteria may be present.

Regulated Contaminants

Disinfectants and Disinfection By- Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCGL	MCL	Units	Violation	Likely source of Contamination
Total Haloacetic Acids (HAA5)	2023	17.7	4.4 – 17.7	No goal for the total	60	ppb	No	By-Product of drinking water chlorination
Total Trihalomethanes (TTHM)	2023	35.1	15.1 – 35.1	No goal for the total	80	ppb	No	By-Product of drinking water chlorination
Bromate	2023	Levels lower than detect level	0.- 0	5	10	ppb	No	By-Product of drinking water ozonation

NOTE: Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future. TCEQ only requires on sample annually for compliance testing. For Bromate, compliance is based on the running annual average.

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely source of Contamination
Antimony	2023	Levels lower than detect level	0 - 0	6	6	ppb	No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; and test addition.

Arsenic	2023	Levels lower than detect level	0 - 0	0	10	ppb	No	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes.
Barium	2023	0.048	0.041 – 0.048	2	2	ppm	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Beryllium	2023	Levels lower than detect level	0 - 0	4	4	ppb	No	Discharge from metal refineries and coal-burning factories; discharge from electrical; aerospace; and defense industries.
Cadmium	2023	Levels lower than detect level	0 - 0	5	5	ppb	No	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints.

Copeville Special Utility District
Water Quality Data for year 2023 (Cont.)

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely source of Contamination
Chromium	2023	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from steel and pulp mills; erosion of natural deposits
Cyanide	2023	199	28 – 199	0 – 0	200	ppb	No	Discharge from steel/metal factories; Discharge from plastics and fertilizer factories
Fluoride	2023	0.968	0.537 – 0.968	4	4	ppm	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
Mercury	2023	Levels lower than detect level	0 - 0	2	2	ppb	No	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; from cropland
Nitrate (measured as Nitrogen)	2023	0.790	0.067 – 0.790	10	10	ppm	No	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits
2023	2022	Levels lower than detect level	0 - 0	50	50	ppb	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines.
Thallium	2023	Levels lower than detect level	0 - 0	0.5	2	ppb	No	Discharge from electronics; glass; and leaching from ore processing sites; drug factories.

Nitrate Advisory: Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask advice from your health care provider.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely source of Contamination
Beta/Photon emitters	2022	4.7	4.7 - 4.7	0	50	pCi/l	No	Decay of natural and man-made deposits
Gross alpha excluding radon and uranium	2022	Levels lower than detect level	0 - 0	0	15	pCi/l	No	Erosion of natural deposits
Radium	2022	Levels lower than detect level	0 - 0	0	5	pCi/l	No	Erosion of natural deposits

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Water Quality Data for Year 2023 (Cont.)

Synthetic Organic Contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely source of Contamination
2,4,5- TP (Silvex)	2022	Levels lower than detect level	0 - 0	50	50	ppb	No	Residue of banned herbicide.
2, 4 - D	2022	Levels lower than detect level	0 - 0	70	70	ppb	No	Runoff from herbicide used on row crops
Alachlor	2023	Levels lower than detect level	0 - 0	0	2	ppb	No	Runoff from herbicide used on row crops
Aldicarb	2022	Levels lower than detect level	0 - 0	1	3	ppb	No	Runoff from agricultural pesticide
Aldicarb Sulfone	2022	Levels lower than detect level	0 - 0	1	3	ppb	No	Runoff from agricultural pesticide
Aldicarb Sulfoxide	2022	Levels lower than detect level	0 - 0	1	4	ppb	No	Runoff from agricultural pesticide
Atrazine	2023	0.2	0.1 - 0.2	3	3	ppb	No	Runoff from herbicide used on row crops

Benzo (a) Pyrene	2023	Levels lower than detect level	0 - 0	0	200	ppt	No	Leaching from linings of water storage tanks and distribution lines
Carbofuran	2022	Levels lower than detect level	0 - 0	40	40	ppb	No	Leaching of soil fumigant used on rice and alfalfa
Chlordane	2022	Levels lower than detect level	0 - 0	0	2	ppb	No	Residue of banned termiticide
Dalapon	2023	Levels lower than detect level	0 - 0	200	200	ppn	No	Runoff from herbicide used on right of way
Di (2-ethylhexyl) adipate	2022	Levels lower than detect level	0 - 0	400	400	ppb	No	Discharge from chemical factories

Copeville Special Utility District
Water Quality Data for Year 2023 (Cont.)

Synthetic Organic Contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely source of Contamination
Di (2-ethylhexyl) phthalate	2023	Levels lower than detect level	0 - 0	0	6	ppb	No	Discharge from rubber and chemical factories
Dibromochloropropane (DBCP)	2022	Levels lower than detect level	0 - 0	0	200	ppt	No	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards.
Dinoseb	2022	Levels lower than detect level	0 - 0	7	7	ppb	No	Runoff from herbicide used on soybeans and vegetables
Endrin	2023	Levels lower than detect level	0 - 0	2	2	ppb	No	Residue of banned insecticide
Ethylene dibromide	2022	Levels lower than detect level	0 - 0	0	50	ppt	No	Discharge from petroleum refineries
Heptachlor	2023	Levels lower than detect level	0 - 0	0	400	ppt	No	Residue of banned termiticide
Heptachlor epoxide	2023	Levels lower than detect level	0 - 0	0	200	ppt	No	Breakdown of heptachlor
Hexachlorobenzene	2023	Levels lower than detect level	0 - 0	0	1	ppb	No	Discharge from metal refineries and agricultural chemical factories

Hexachlorocyclopentadiene	2022	Levels lower than detect level	0 - 0	50	50	ppb	No	Discharge from chemical factories
Lindane	2023	Levels lower than detect level	0 - 0	200	200	ppt	No	Runoff/leaching from insecticide used on cattle, lumber, and gardens
Methoxychlor	2023	Levels lower than detect level	0 - 0	40	40	ppb	No	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, and livestock
Oxamyl (Vydate)	2022	Levels lower than detect level	0 - 0	200	200	ppb	No	Runoff/leaching from insecticide used on apples, potatoes, and tomatoes
Pentachlorophenol	2022	Levels lower than detect level	0 - 0	0	1	ppb	No	Discharge from wood preserving factories

Copeville Special Utility District
Water Quality Data for Year 2023 (Cont.)

Synthetic Organic Contaminants including pesticides and herbicides								
	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely source of Contamination
Picloram	2022	Levels lower than detect level	0 - 0	500	500	ppb	No	Herbicide Runoff
Simazine	2023	0.12	0.06 – 0.12	4	4	ppb	No	Herbicide Runoff
Tophene	2023	Levels lower than detect level	0 - 0	0	3	ppb	No	Runoff/leaching from insecticide used on cotton and cattle

Volatile Organic Contaminants								
	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely source of Contamination
1, 1, 1 – Trichloroethane	2023	Levels lower than detect level	0 - 0	200	200	ppb	No	Discharge from metal degreasing sites and other factories
1, 1, 2 – Trichloroethane	2023	Levels lower than detect level	0 - 0	3	5	ppb	No	Discharge from industrial chemical factories
1,1 - Dichloroethylene	2023	Levels lower than detect level	0 - 0	7	7	ppb	No	Discharge from industrial chemical factories

1, 2, 4 - Trichlorobenzene	2023	Levels lower than detect level	0 - 0	70	70	ppb	No	Discharge from textile-finishing factories
1, 2 - Dichloroethane	2023	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from industrial chemical factories
1, 2 - Di chloropropane	2023	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from industrial chemical factories
Benzene	2023	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from factories; leaching from gas storage tanks and landfills
Carbon Tetrachloride	2023	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from chemical plants and other industrial activities

Copeville Special Utility District
Water Quality Data for Year 2023 (Cont.)

Volatile Organic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorobenzene	2023	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from chemical and agricultural chemical factories
Dicloromethane	2023	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from pharmaceutical and chemical factories
Ethylbenzene	2023	Levels lower than detect level	0 - 0	0	700	ppb	No	Discharge from petroleum refineries
Styrene	2023	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene	2023	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from factories and dry cleaners
Toluene	2023	Levels lower than detect level	0 - 0	1	1	ppm	No	Discharge from petroleum factories
Trichloroethylene	2023	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge form metal degreasing sites and other factories

Vinyl Chloride	2023	Levels lower than detect level	0 - 0	0	2	ppb	No	Leach from PVC piping; discharge from plastics factories
Xylenes	2023	Levels lower than detect level	0 - 0	10	10	ppm	No	Discharge from industrial chemical factories
cis - 1, 2 - Dichloroethylene	2023	Levels lower than detect level	0 - 0	70	70	ppb	No	Discharge form industrial chemical factories
o - Dichlorobenzene	2023	Levels lower than detect level	0 - 0	600	600	ppb	No	Discharge from industrial chemical factories
p - Dichlorrobenzene	2023	Levels lower than detect level	0 - 0	75	75	ppb	No	Discharge from industrial chemical factories
trans - 1, 2 - Dicholoroethylene	2023	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from industrial chemical factories

Copeville Special Utility District
Water Quality Data for Year 2023 (Cont.)

Turbidity

	Limit (Treatment Technique)	Level Detected	Violation	Likely source of Contamination
Highest single measurement	1 NTU	0.73	No	Soil runoff
Lowest Monthly percentage (%) meeting limit	0.3 NTU	98.0%	No	Soil runoff

NOTE: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration.

Maximum Residual Disinfectant Level

Chemical Used	Year	Average Level of Quarterly Data	Lowest Result of a Single Sample	Highest Result of Single Sample	MRDL	MRDLG	Units	Source of Chemical
Chlorine Residual (Chloramines)	2023	1.675	0.5	3.7	4	<4.0	ppm	Disinfectant used to control microbes
Chlorine Dioxide	2023	0.01	0	0.59	0.80	0.80	ppm	Disinfectant
Chlorite	2023	0.16	0	0.88	1.00	N/A	ppm	Disinfectant

NOTE: Water providers are required to maintain a minimum chlorine disinfection residual level of 0.5 parts per million (PPM) for systems disinfecting with chloramines and an annual average chlorine disinfection residual level of between 0.5 (ppm) and 4 parts per million (ppm).

Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month, and the system met all TOC removal requirements set.

Cryptosporidium and Giardia

Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Likely Source of Contamination
Cryptosporidium	2023	0	0 - 0	(Oo) Cysts/L	Human and animal fecal waste
Giardia	2022	0.18	0.09 – 0.18	(Oo) Cysts/L	Human and animal fecal waste

NOTE: Levels detected are for source water. No cryptosporidium or giardia were found in drinking water

Copeville Special Utility District Water Quality Data for Year 2023 (Cont.)

Lead and Copper

Lead and Copper	Sampled Date	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely source of Contamination
Lead	2022	15	1.34	0	ppb	None	Corrosion of household plumbing systems, erosion of natural deposits
Copper	2022	1.3	0.425	0	ppm	None	Erosion of natural deposits; leaching from wood preservatives; corrosion of household plumbing systems.

Additional Health Information for Lead: 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. Copeville SUD is responsible for providing high quality drinking water but 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 a <http://www.epa.gov/safedrinkingwater/lead>

Unregulated Contaminants

Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Likely source of Contamination
Chloroform	2023	14.8	3.9 – 14.8	ppb	By-product of drinking water disinfectant
Bromoform	2023	1.84	1 – 1.84	ppb	By-product of drinking water disinfectant
Bromodichloromethane	2023	12.9	5.56 – 12.9	ppb	By-product of drinking water disinfectant
Dibromochloromethane	2022	10.5	4.54 – 10.5	ppb	By-product of drinking water disinfectant

Note: Chloroform, Bromoform, Bromodichloromethane, and Dibromochloromethane are disinfection by-products. There is no maximum contaminant level or these chemicals at the entry point of distribution.

Unregulated Contaminants

Contaminants	Collection Date	Average Level (µg/L)	Range of Levels Detected (µg/L)	Health-Based Reference Concentration (µg/L) (recommended, not required in the CCR)	Health Information Summary (recommended, not required in the CCR)
PFBA	2023	0.0064	0.0051 – 0.0076		This data is part of UCMR5 results in relation to minimum reporting levels and available non-regulatory health-based reference concentrations.
PFBS	2023	0.0038	0.0034 – 0.0047		This data is part of UCMR5 results in relation to minimum reporting levels and available non-regulatory health-based reference concentrations.
PFHxA	2023	0.0058	0.0045 – 0.0070		This data is part of UCMR5 results in relation to minimum reporting levels and available non-regulatory health-based reference concentrations.
PFPeA	2023	0.0065	0.0049 – 0.0081		This data is part of UCMR5 results in relation to minimum reporting levels and available non-regulatory health-based reference concentrations.

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Water Quality Data for Year 2023 (Cont.)

Secondary and Other Constituents Not Regulated

Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Likely source of Contamination
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Aluminum	2023	Levels lower than detect level	0 - 0	ppm	Erosion of natural deposits
Calcium	2023	69.8	26.5 – 69.8	ppm	Abundant naturally occurring element
Chloride	2023	107	30 – 107	ppm	Abundant naturally occurring element, used in water purification, by-product of oil field activity
Iron	2023	0.516	0.061 – 0.516	ppm	Erosion of natural deposits, iron or steel water delivery equipment or facilities
Magnesium	2023	9.77	4.90 – 9.77	ppm	Abundant naturally occurring element
Manganese	2023	0.158	0.0068 – 0.158	ppm	Abundant naturally occurring element
Nickel	2023	0.0048	0.0047 – 0.0048	ppm	Erosion of natural deposits
pH	2023	9.17	6.39 – 9.17	units	Measure of corrosively of water
Silver	2023	Levels lower than detect level	0 - 0	ppm	Erosion of natural deposits
Sodium	2023	95.4	26.5 – 96.4	ppm	Erosion of natural deposits, by-product of oil field activity
Sulfate	2023	171	76.8 – 171	ppm	Naturally occurring; common industrial by-product, by-product of oil field activity
Total Alkalinity as CaCO3	2023	139	51-139	ppm	Naturally occurring soluble mineral salts
Total Dissolved Solids	2023	492	263 – 492	ppm	Total dissolved mineral constituents in water
Total Hardness as CaCO3	2023	312	82 – 312	ppm	Naturally occurring calcium
Zinc	2023	Levels lower than detect level	0 - 0	ppm	Moderately abundant naturally occurring element used in the metal industry

Violations

Violation Type	Violation Begin	Violation End	Violation Explanation
None			