

# NORTH COLLIN SPECIAL UTILITY DISTRICT (NCSUD)

P.O. BOX 343      2333 Sam Rayburn Hwy.  
MELISSA, TEXAS 75454  
PH. 972-837-2331      [www.northcollinsud.com](http://www.northcollinsud.com)      FAX 972-837-2930

## Consumer Confidence Report 2019

### Our Drinking Water Meets or Exceeds All Federal (EPA) Drinking Requirements

#### SOURCE

NCSUD purchases treated water from North Texas Municipal Water District (NTMWD) in Wylie. NTMWD obtains raw water from Lake Lavon. Through proper operation and the latest technologies, they provide us with a safe and healthy water supply. Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: <http://dww2.tceq.texas.gov/DWW/>

Source Water Name: North Texas MWD    CC from TX0430044 North

Type of Water: SW

Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL:<http://dww.tceq.gov/DWW>

For the ELDERLY, INFANTS, CANCER PATIENTS, people with HIV / AIDS or other immune problems:

Some people may be more vulnerable to contaminants in drinking water than the general public. **Immuno-compromised persons such as those undergoing chemotherapy treatment for cancer, those who have undergone organ transplant, those with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections.** These people should seek advice about drinking water from their health providers. EPA/Centers for Disease Control and Prevention (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

#### 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 limits 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/>

<sup>1</sup>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 contact Allen Knight @ 972-837-2331.

Definitions and Abbreviations	The following tables contain scientific terms and measures, some of which may require explanation.
Action Level:	Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why
Action Goal (ALG):	The concentration of a contaminant in drinking water below which a water system treatment or other regulation would be required to protect health. ALGs also regulate compliance with some MCLs based on running annual average of monthly samples.
Avg.:	The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible and/or who have total control have been found in our water system on multiple occasions.
Level 1 Assessment:	A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why
Level 2 Assessment:	The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible and/or who have total control have been found in our water system on multiple occasions.
Maximum Contaminant Level or MCL:	The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs all
Maximum Contaminant Level or MCLG:	The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant to drinking water disinfests below which there is no known or expected risk to health. MCLGs do not apply.
MCL:	million fibers per liter (a measure of asbestos)
NTU:	nephelometric turbidity units (a measure of turbidity)
PC/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.

The TCEQ has completed a Source Water Assessment for all drinking water systems that own their sources. The report describes the susceptibility and types of constituents that may come into contact with our drinking water source based on human activities and natural conditions. The system(s) from which we purchase out water received the assessment report. For more information on source water assessment report, The system(s) from which we purchase out source water assessments and protection efforts at our system, contact Allen Knight @ 972-837-2331

Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre este informe en español, favor de llamar al tel. 972-837-2331 para hablar con una persona bilingual en español.

North Collin SUD recorded an average of 21 percent water loss for the year of 2019.

We now have the convenience of viewing or paying you water bill online. Please visit [www.northcollinsud.com](http://www.northcollinsud.com) and click on the "View or Pay Your Bill" button to link you to the new SmartHub online payment system for your convenience of paying, viewing your bill or setting up "Auto Pay".

Please contact the office any time you have a change in your address, phone number, mailing address or property ownership.

In the field and office, we strive to maintain the system with efficiency and with the least amount of leaks as possible. If you notice any leaks, please call the office and report them.

Customer can use 3g of water daily. A continuous leak 1/16" in diameter at 60 PSI will use approximately 25,000g in one month.

We monitor and maintain four pump stations, two water towers and the transmission and distribution lines to deliver water to our customers. We have a storage capacity of 1,900,000 gallons. If you receive an unusually high water bill, please check for leaks. A dripping faucet or fixture can use 3g of water daily. A continuous leak 1/16" in diameter at 60 PSI will use approximately 25,000g in one month.

We presently have 2327 customers and supply water through approximately 200 miles of water lines. We employ a total of eight people --- a system manager, office manager, two billing clerks, and four field technicians.

Unless otherwise noted,

NCSUD holds monthly board meetings on the third Thursday of each month at 7 p.m. located at 2333 Sam Rayburn Hwy., Melissa,

## GENERAL INFORMATION

N	ppm	10	0.0578-0.721	1	2019	Nitrate [Measured as Nitrogen]
Violations	Units	MCL	MCLG	Samples	Highest Level or Average Detected	Collection Date

\* The value in the Highest Level or Average Detected column is the highest average of all THM sample results collected at a location over a year.

N	ppb	80	24-37.3	No goal for the	32	2019	Total Trihalomethanes (THMs)
---	-----	----	---------	-----------------	----	------	------------------------------

\* The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year.

N	ppb	60	13.9-22.5	No goal for the	25	2019	Haloacetic Acids (HAA5)
Violations	Units	MCL	MCLG	Samples	Average Detected	Highest Level or	Collection Date

## 2019 Water Quality Test Results

N	ppb	0	1.5	0	2019	Lead
Violations	Units	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Copper

"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; those 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 provider. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline at (800) 426-4791.

### Vulnerability of Some Populations to Contaminants in Drinking Water

A required process intended to reduce the level of a contaminant in drinking water.

Treatment Technique or TT:

parts per trillion, or nanograms per liter (ng/L)

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

ppb

ppq

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								
Disinfectant Residual	Year	Average Level	Range of levels	MRL	MRDL	Unit of Measure	Violation (Y/N)	Chlorine
Bromate	2019	6.3	5.2 - 6.3	5	10	ppb	No	By-product of drinking water ozonation.
Total Trihalomethanes (THM)	2019	32	24-37.3	No goal for the total	80	ppb		By-product of drinking water disinfection.
Total Haloacetic Acids (HAA5)	2019	25	13.9-22.5	No goal for the total	60	ppb		By-product of drinking water disinfection.
Disinfectants and Disinfection By-Products	Date	Highest Level Detected	Range of levels	Detected	MCL	Units	Violation of Maximum Contamination Ratio	Likely Source

## Regulated Contaminants

NOTE: Reported monthly tests 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.								
0		1 positive monthly sample	0.00	0	0		Naturally present in the environment	
Maximum Contaminant Level Goal		Total Coliform Maximum	Highest Level	Fecal Coliform	nt Level	Violatio	Likely Source	Maximum Contaminant Ratio
Maximum Contaminant		Fecal	E. Coli or Positive	E. Coli or Maximum	Contaminant Level	n		Contaminant Level

## Coliform Bacteria

# NTMWD Wyile Water Treatment Plants Water Quality Data for Year 2019

Disinfectant Residual	Year	Average Level	Range of levels	MRL	MRDL	Unit of Measure	Violation (Y/N)	Chlorine
	2019	1.78	0.5 - 2.7	4	4	ppm		

Disinfectant Residual

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCL	Units	Violation Ratio	Contaminant n	Likely Source
Antimony	2019	0 - 0	Levels lower than detect level	6	ppb	No	Discharge from perladium refineries; fire retardants; natural deposits; runoff from orchards; glass and runoffs from electronics; ceramics; cermamics; solder; and test addition.	
Arsenic	2019	0 - 0	Levels lower than detect level	10	ppb	No	Erosion of natural deposits; runoff from orchards; glass and runoffs from electronics; ceramics; solder; and test addition.	
Barium	2019	0.044	0.043 - 0.044	2	ppm	No	Discharge of drilling wastes; discharge of metal refineries; runoff from natural deposits and erosion of galvanized pipes; natural erosion of pipes; corrosion of steel structures; and defenese aerospace, electrical, defense industries.	
Beryllium	2019	0 - 0	Levels lower than detect level	4	ppb	No	Discharge of coal-burning facilities and refinery wastes; from metal refineries and erosion of natural deposits.	
Cadmium	2019	0 - 0	Levels lower than detect level	5	ppb	No	Corrosion of galvanized pipes; natural erosion of pipes; corrosion of steel structures; and defenese aerospace, electrical, defense industries.	
Chromium	2019	0 - 0	Levels lower than detect level	100	ppb	No	Discharge from pulp and paper mills; erosion of natural deposits and steel structures; and waste runoff from refineries; and paint.	
Fluoride	2019	0.230	0.215 - 0.230	4	ppm	No	Erosion of natural deposits; water additive deposits; and natural deposits.	

sampling should occur in the future. TCEQ only requires one sample annually for compliance testing.

Radium	2018	Levels lower than detect level	0 - 0	0	5	pCi/L	No	Erosion of natural deposits.
Gross alpha excluding radon and uranium	2018	Levels lower than detect level	0 - 0	0	15	pCi/L	No	Erosion of natural deposits.
Beta/photon emitters	2018	8.0	8.0 - 8.0	0	50	pCi/L	No	Decay of man-made natural made deposits.
Radioactive Contaminants	Date	Collection	Range of Levels Detected	MCL	Units	Vial#	Count/Min/Alt	Likely Source
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.							
Thallium	2019	Levels lower than detect level	0 - 0	0.5	2	ppb	No	Discharge from electronics, glass, and leaching from ore-processing facilities; drug stores.
Selenium	2019	Levels lower than detect level	0 - 0	50	50	ppb	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines.
Nitrate (measured as Nitrogen)	2019	0.083 - 0.772	0.772	10	10	ppm	No	Rainoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits.
Mercury	2019	Levels lower than detect level	0 - 0	2	2	ppb	No	Erosion of natural deposits; discharge from refineries and landfills; runoff from factories; runoff from cropland.
								which promotes strong teeth; discharges from fertilizer use; aluminum.

Likely Source of Contaminants	Including pesticides and herbicides	Collection	Highest Level Detected	Range of Level Detected	MCLG	MCL	Units	Violatio n	Contaminatio n	Collection	Highest Level Detected	Range of Level Detected	MCLG	MCL	Units	Violatio n	Contaminatio n	Likely Source of Contaminants	Including pesticides and herbicides																																																																																																		
2, 4 - D		2019	Levels lower than detect level	0 - 0	70	70	ppb	No	Runoff from herbicide used on row crops.	Alachlor	2019	Levels lower than detect level	0 - 0	0	0	ppb	No	Runoff from herbicide used on row crops.	Aldicarb	2019	Levels lower than detect level	0 - 0	0	3	ppb	No	Runoff from herbicide used on row crops.	Aldicarb Sulfone	2019	Levels lower than detect level	0 - 0	0	2	ppb	No	Runoff from herbicide used on row crops.	Aldicarb Soilfioxide	2019	Levels lower than detect level	0 - 0	3	4	ppb	No	Runoff from herbicide used on row crops.	Atrazine	2019	0.1 - 0.2	0.2	3	3	ppb	No	Runoff from herbicide used on row crops.	Benzo (a) pyrene	2019	Levels lower than detect level	0 - 0	0	200	ppt	No	Leaching of soil from tanks of water storage tanks and distribution lines.	Carbofuran	2019	Levels lower than detect level	0 - 0	40	40	ppb	No	Leaching of soil from tanks of water storage tanks and distribution lines.	Chlordane	2019	Levels lower than detect level	0 - 0	0	2	ppb	No	Residue of banned pesticide.	Dalapon	2019	Levels lower than detect level	0 - 0	200	200	ppb	No	Runoff from herbicide used on way.	Di(2-ethylhexyl) adipate	2019	Levels lower than detect level	0 - 0	0	6	ppb	No	Discharge from rubber and chemicals factors.	Di(2-ethylhexyl) phthalate	2019	Levels lower than detect level	0 - 0	0	200	ppt	No	Runoff from fungigant used on soybeans, cotton, and rubber.	Dibromochloropropane (DBCP)	2019	Levels lower than detect level	0 - 0	0	0	ppb	No	Runoff from fungigant used on soybeans, cotton, and rubber.

## NTMWD Wyile Water Treatment Plants Water Quality Data for Year 2019 (Cont.)

Dinoseb	2019	Levels lower than detect level	0 - 0	7	7	ppb	No	Runoff from herbicide used on soybeans and vegetables.
Endrin	2019	Levels lower than detect level	0 - 0	2	2	ppb	No	Residue of banned insecticide.
Ethylenedibromide	2019	Levels lower than detect level	0 - 0	0	50	ppt	No	Discharge of petroleum products.
Heptachlor	2019	Levels lower than detect level	0 - 0	0	400	ppt	No	Residue of banned termiteicide.
Heptachlor epoxide	2019	Levels lower than detect level	0 - 0	0	200	ppt	No	Breakdown of heptachlor.
Hexachlorobenzene	2019	Levels lower than detect level	0 - 0	0	1	ppb	No	Discharge of metal refineries and agricultural chemicals.
Hexachlorocyclopentadiene	2019	Levels lower than detect level	0 - 0	50	50	ppb	No	Discharge of chemical factories.
Lindane	2019	Levels lower than detect level	0 - 0	200	200	ppt	No	Runoff from insecticide leaching from used on cattie, number, and gardens.
Methoxychlor	2019	Levels lower than detect level	0 - 0	40	40	ppb	No	Runoff from insecticide leaching from vegetables, fruits, and vegetables, and livestock.
Oxamyl [Vydate]	2019	Levels lower than detect level	0 - 0	200	200	ppb	No	Runoff from insecticide leaching from used on apples, potatoes, and tomatoes.
Pentachlorophenol	2019	Levels lower than detect level	0 - 0	1	1	ppb	No	Discharge of wood preservig factories.
Picloram	2019	Levels lower than detect level	0 - 0	500	ppb	No	Herbicide runoff.	
Simazine	2019	0.32 - 0.33	4	4	ppb	No	Herbicide runoff.	
Toxaphene	2019	Levels lower than detect level	0 - 0	0	3	ppb	No	Runoff / leaching from insecticide used on used on

Volatile Organic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Violatio n	Units	MCL	Detected	Levels of Source	Cotton and cattle.
Chlorobenzene	2019	Levles lower than detect level	0 - 0	No	ppb	100	0	Discharge from industrial sources.	Chemical agriculture from agicultural sites and chemical factors.
Dichloromethane	2019	Levles lower than detect level	0 - 0	No	ppb	5	0	Discharge from pharmaceutical factories.	Chemical discharge from pharmaceutical factories.
Carbon Tetrachloride	2019	Levles lower than detect level	0 - 0	No	ppb	5	0	Discharge from industrial plants and chemical factors.	Industrial discharge from other plants and chemical factors.

## NTMWD Wyile Water Treatment Plants

### Water Quality Data for Year 2019 (Cont.)

Volatile Organic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Violatio n	Units	MCL	Detected	Levels of Source	Cotton and cattle.
1, 2 - Dichloropropane	2019	Levles lower than detect level	0 - 0	No	ppb	5	0	Discharge from industrial facilities.	Industrial discharge from chemical factories.
1, 2 - Dichloroethane	2019	Levles lower than detect level	0 - 0	No	ppb	5	0	Discharge from industrial facilities.	Industrial discharge from chemical factories.
1, 2, 4 - Trichlorobenzene	2019	Levles lower than detect level	0 - 0	No	ppb	70	70	Discharge from textile-finishing facilities.	Discharge from textile-finishing facilities.
1, 1 - Dichloroethylene	2019	Levles lower than detect level	0 - 0	No	ppb	7	7	Discharge from industrial facilities.	Industrial discharge from chemical factories.
1, 1, 2 - Trichloroethane	2019	Levles lower than detect level	0 - 0	No	ppb	5	3	Discharge from industrial facilities.	Industrial discharge from chemical factories.
1, 1, 1 - Trichloroethane	2019	Levles lower than detect level	0 - 0	No	ppb	200	200	Discharge from metal degrading sites.	Discharge from metal degrading sites and other sources.
Benzene	2019	Levles lower than detect level	0 - 0	No	ppb	5	0	Discharge from storage tanks and leaching from tanks.	Discharge from storage tanks and leaching from tanks.
Carbon Tetrachloride	2019	Levles lower than detect level	0 - 0	No	ppb	5	0	Discharge from industrial plants and chemical factors.	Industrial discharge from other plants and chemical factors.

Likely Source	Level Detected	Limit Treatment Technique	1 NTU	0.97	No	Soil runoff
---------------	----------------	---------------------------	-------	------	----	-------------

**Turbidity**

Styrene	2019	Levels lower than detect level	0 - 0	100	ppb	No
Ethylbenzene	2019	Levels lower than detect level	0 - 0	700	ppb	No
Tetrachloroethylene	2019	Levels lower than detect level	0 - 0	5	ppb	No
Toluene	2019	Levels lower than detect level	0 - 0	1	ppm	No
Trichloroethylene	2019	Levels lower than detect level	0 - 0	5	ppb	No
Vinyl Chloride	2019	Levels lower than detect level	0 - 0	2	ppb	No
Xylenes	2019	Levels lower than detect level	0 - 0	10	ppm	No
cis - 1, 2 - Dichloroethylene	2019	Levels lower than detect level	0 - 0	70	ppb	No
Discharge from industrial facilities; petroleum refineries.	2019	Levels lower than detect level	0 - 0	600	ppb	No
o - Dichlorobenzene	2019	Levels lower than detect level	0 - 0	600	ppb	No
p - Dichlorobenzene	2019	Levels lower than detect level	0 - 0	75	ppb	No
Discharge from industrial facilities; petroleum refineries.	2019	Levels lower than detect level	0 - 0	100	ppb	No
trans - 1, 2 - Dichloroethylene	2019	Levels lower than detect level	0 - 0	100	ppb	No

Lead and Copper	Likely Source	Contaminants	Units	Violatio	# Sites Over AL	Percentil	Action Level (AL)	Date Sampled	Leads and Copper
-----------------	---------------	--------------	-------	----------	-----------------	-----------	-------------------	--------------	------------------

**Lead and Copper**

# NTMWD Wyile Water Treatment Plants

## Water Quality Data for Year 2019 (Cont.)

Likely Source	Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Human and animal fecal waste.	(00) Cyts/L	0	2019	Giardia
Cryptosporidium		2019	0	0 - 0	(00) Cyts/L	Human and animal fecal waste.				

**Cryptosporidium and Giardia**

Source Water	2019	5.08	3.89 - 5.08	ppm	Naturally present in the environment.	Drinking Water	2019	3.60	1.55 - 3.60	ppm

**Total Organic Carbon**

Chlorite	2019	0.04	0.00	0.42	1.00	N/A	ppm	Disinfectant.	NOTE: Water providers are required to maintain a minimum chlorine disinfection residual level of between 0.5 ppm and 4 parts per million (ppm).
Chlorine Dioxide	2019	0	0	0.80	0.80	ppm			
Chlorine Residual (Chloramines)	2019	1.78	0.05	2.70	4.00	< 4.0	ppm	Disinfectant used to control microbes.	

**Maximum Residual Disinfectant Level**

No	Soil runoff	Lowest monthly percentage (%) measuring limit	0.3 NTU	95.50%	Year	Average Level of Quarternary	Lowest of Single Sample	MRL	MRDL	Source of Chemical

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.

Calcium	2019	60.7	ppm	Abundant naturally occurring element.
Aluminum	2019	0 - 0	ppm	Erosion of natural deposits.
Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Units Contaminants

## Secondary and Other Constituents Not Regulated

Dibromochloromethane	2019	8.94	4.11-8.94	ppb	By-product of drinking water disinfection.
Bromodichloromethane	2019	11	6.83-11.0	ppb	By-product of drinking water disinfection.
Bromoform	2019	2.64	<1.0-2.64	ppb	By-product of drinking water disinfection.
Chloroform	2019	13.6	6.16-13.6	ppb	By-product of drinking water disinfection.
Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Likely Source of Contaminants

## Unregulated Constituents

Copper	2019	1.3	0.96	ppm	Corrosion of household plumbing fixtures; corrosion of natural deposits; leaching from service lines and home plumbing.
Lead	2019	15	0	ppb	Corrosion of household plumbing systems; erosion of natural deposits.

the entity point to distribution.

NOTE: Bromoform, chloroform, dichlorobromoform, and dibromochloromethane are disinfection by-products. There is no maximum contaminant level for these chemicals at the entity point to distribution.

NOTE:

Chloride	2019	65.3	11.6 - 65.3	ppm	Abundant naturally occurring elements; used in water purification; by-product of oil field activity.	Erosion of natural deposits; iron deposits; iron delivery equipment or steel water delivery equipment or oil field activity.	Iron	2019	Levels lower than detect level	0 - 0	ppm	Erosion of natural deposits; iron deposits; iron delivery equipment or steel water delivery equipment or oil field activity.	Erosion of natural deposits.	Magnesium	2019	4.47	4.39 - 4.47	ppm	Abundant naturally occurring element.	Abundant naturally occurring element.	Nickel	2019	0.0048	0.0046 - 0.0048	ppm	Abundant naturally occurring element.	Abundant naturally occurring element.	pH	2019	8.65	7.94 - 8.65	units	Measure of corrosivity of water.	Measure of corrosivity of water.	Siliver	2019	0	0 - 0	ppm	Erosion of natural deposits.	Erosion of natural deposits.	Sodium	2019	40.0	39.8 - 40.0	ppm	Erosion of natural deposits; by-product of oil field activity.	Erosion of natural deposits; by-product of oil field activity.	Sulfate	2019	132	34.8 - 132	ppm	Naturally occurring common salt.	Naturally occurring common salt.	Total Alkalinity as CaCO <sub>3</sub>	2019	119	81 - 119	ppm	Naturally occurring soluble salts.	Naturally occurring soluble salts.	Total Dissolved Solids	2019	534	250 - 534	ppm	Total dissolved mineral constituents in water.	Total dissolved mineral constituents in water.	Total Hardness as CaCO <sub>3</sub>	2019	191	114 - 191	ppm	Naturally occurring calcium.	Naturally occurring calcium.	Zinc	2019	0	0 - 0	ppm	Moderately abundant naturally occurring element used in the metal industry.	Moderately abundant naturally occurring element used in the metal industry.
----------	------	------	-------------	-----	--	--	------	------	--------------------------------	-------	-----	--	------------------------------	-----------	------	------	-------------	-----	---------------------------------------	---------------------------------------	--------	------	--------	-----------------	-----	---------------------------------------	---------------------------------------	----	------	------	-------------	-------	----------------------------------	----------------------------------	---------	------	---	-------	-----	------------------------------	------------------------------	--------	------	------	-------------	-----	--	--	---------	------	-----	------------	-----	----------------------------------	----------------------------------	---------------------------------------	------	-----	----------	-----	------------------------------------	------------------------------------	------------------------	------	-----	-----------	-----	--	--	-------------------------------------	------	-----	-----------	-----	------------------------------	------------------------------	------	------	---	-------	-----	---	---