

COOPER COUNTY CONSOLIDATED PWSD # 1

Public Water System ID Number: MO3024170

2019 Annual Water Quality Report

(Consumer Confidence Report)

This report is intended to provide you with important information about your drinking water and the efforts made to provide safe drinking water.

Attencion!

Este informe contiene información muy importante. Tradúscalo o prequentele a alguien que lo entienda bien.

[Translated: This report contains very important information. Translate or ask someone who understands this very well.]

What is the source of my water?

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater 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.

Our water comes from the following source(s):

Source Name	Type
WELL # 1 MARTINSVILLE	GROUND WATER

Our drinking water is supplied from another water system through a Consecutive Connection (CC). To find out more about our drinking water sources and additional chemical sampling results, please contact our office at the number provided below.

Buyer Name	Seller Name
COOPER COUNTY CONSOLIDATED PWSD # 1	THE CITY OF BOONVILLE

Source Water Assessment

The Department of Natural Resources conducted a source water assessment to determine the susceptibility of our water source to potential contaminants. This process involved the establishment of source water area delineations for each well or surface water intake and then a contaminant inventory was performed within those delineated areas to assess potential threats to each source. Assessment maps and summary information sheets are available on the internet at <https://drinkingwater.missouri.edu/>. To access the maps for your water system you will need the State-assigned identification code, which is printed at the top of this report. The Source Water Inventory Project maps and information sheets provide a foundation upon which a more comprehensive source water protection plan can be developed.

Why are there contaminants in my water?

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 Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

Contaminants that may be present in source water include:

A. **Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

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

C. **Pesticides and herbicides**, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

D. **Organic chemical contaminants**, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

E. **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, the Department of Natural Resources prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Department of Health regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Is our water system meeting other rules that govern our operations?

The Missouri Department of Natural Resources regulates our water system and requires us to test our water on a regular basis to ensure its safety. Our system has been assigned the identification number MO3024170 for the purposes of tracking our test results. Last year, we tested for a variety of contaminants. The detectable results of these tests are on the following pages of this report. Any violations of state requirements or standards will be further explained later in this report.

How might I become actively involved?

If you would like to observe the decision-making process that affect drinking water quality or if you have any further questions about your drinking water report, please call us at **660-882-6455** to inquire about scheduled meetings or contact persons.

Do I need to take any special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people 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 care providers. EPA/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 (800-426-4791).

Terms and Abbreviations

Population: 2451. This is the equivalent residential population served including non-bill paying customers.

90th percentile: For Lead and Copper testing. 10% of test results are above this level and 90% are below this level.

AL: Action Level, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.

HAA5: Haloacetic Acids (mono-, di- and tri-chloroacetic acid, and mono- and di-bromoacetic acid) as a group.

LRAA: Locational Running Annual Average, or the locational average of sample analytical results for samples taken during the previous four calendar quarters.

MCLG: Maximum Contaminant Level Goal, or 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.

MCL: Maximum Contaminant Level, or 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.

n/a: not applicable.

nd: not detectable at testing limits.

NTU: Nephelometric Turbidity Unit, used to measure cloudiness in drinking water.

ppb: parts per billion or micrograms per liter.

ppm: parts per million or milligrams per liter.

RAA: Running Annual Average, or the average of sample analytical results for samples taken during the previous four calendar quarters.

Range of Results: Shows the lowest and highest levels found during a testing period, if only one sample was taken, then this number equals the Highest Test Result or Highest Value.

SMCL: Secondary Maximum Contaminant Level, or the secondary standards that are non-enforceable guidelines for contaminants and may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor or color) in drinking water. EPA recommends these standards but does not require water systems to comply

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

TTHM: Total Trihalomethanes (chloroform, bromodichloromethane, dibromochloromethane, and bromoform) as a group.



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Contaminants Report

COOPER COUNTY CONSOLIDATED PWSD # 1 will provide a printed hard copy of the CCR upon request. To request a copy of this report to be mailed, please call us at **660-882-6455**. The CCR can also be found on the internet at www.dnr.mo.gov/ccr/MO3024170.pdf.

The state has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Records with a sample year more than one year old are still considered representative. No data older than 5 years need be included. If more than one sample is collected during the monitoring period, the Range of Sampled Results will show the lowest and highest tested results. The Highest Test Result, Highest LRAA, or Highest Value must be below the maximum contaminant level (MCL) or the contaminant has exceeded the level of health based standards and a violation is issued to the water system.

Regulated Contaminants

Regulated Contaminants	Collection Date	Highest Test Result	Range of Sampled Result(s) (low – high)	Unit	MCL	MCLG	Typical Source
BARIUM	3/2/2018	0.0452	0.0452	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
FLUORIDE	3/2/2018	0.66	0.66	ppm	4	4	Natural deposits; Water additive which promotes strong teeth

Disinfection Byproducts	Sample Point	Monitoring Period	Highest LRAA	Range of Sampled Result(s) (low – high)	Unit	MCL	MCLG	Typical Source
(HAA5)	DBPDUAL-01	2019	46	46.4 - 46.4	ppb	60	0	Byproduct of drinking water disinfection
(HAA5)	DBPDUAL-02	2019	65	37.2 - 113	ppb	60	0	Byproduct of drinking water disinfection
TTHM	DBPDUAL-02	2019	98	46.9 - 136	ppb	80	0	Byproduct of drinking water disinfection

Lead and Copper	Date	90th Percentile: 90% of your water utility levels were less than	Range of Sampled Results (low – high)	Unit	AL	Sites Over AL	Typical Source
COPPER	2016 - 2018	0.24	0.0201 - 0.268	ppm	1.3	0	Corrosion of household plumbing systems
LEAD	2016 - 2018	1.95	0 - 20.9	ppb	15	1	Corrosion of household plumbing systems

Radionuclides	Collection Date	Highest Value	Range of Sampled Result(s)	Unit	MCL	MCLG	Typical Source
COMBINED RADIUM (-226 & -228)	9/19/2017	1.1	1.1	pCi/l	5	0	Erosion of natural deposits
GROSS ALPHA PARTICLE ACTIVITY	9/19/2017	4.6	4.6	pCi/l			Erosion of natural deposits
RADIUM-226	9/19/2017	1.1	1.1	pCi/l	5	0	Erosion of natural deposits

Violations and Health Effects Information

During the 2019 calendar year, we had the below noted violation(s) of drinking water regulations.

Compliance Period	Analyte	Type
1/1/2019 - 3/31/2019	TTHM	MCL, LRAA
4/1/2019 - 6/30/2019	TTHM	MCL, LRAA
7/1/2019 - 9/30/2019	TOTAL HALOACETIC ACIDS (HAA5)	MCL, LRAA
7/1/2019 - 9/30/2019	TTHM	MCL, LRAA
10/1/2019 - 12/31/2019	TOTAL HALOACETIC ACIDS (HAA5)	MCL, LRAA
10/1/2019 - 12/31/2019	TTHM	MCL, LRAA

Additional Required Health Effects Language:

Infants and children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (800-426-4791).

Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.

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Special Lead and Copper Notice:

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. COOPER COUNTY CONSOLIDATED PWSD # 1 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 (800-426-4791) or at <http://water.epa.gov/drink/info/lead/index.cfm>.

You can also find sample results for all contaminants from both past and present compliance monitoring online at the Missouri DNR Drinking Water Watch website <http://dnr.mo.gov/DWW/indexSearchDNR.jsp>. To find Lead and Copper results for your system, type your water system name in the box titled Water System Name and select *Find Water Systems* at the bottom of the page. The new screen will show you the water system name and number, select and click the *Water System Number*. At the top of the next page, under the *Help* column find, *Other Chemical Results by Analyte*, select and click on it. Scroll down alphabetically to Lead and click the blue Analyte Code (1030). The Lead and Copper locations will be displayed under the heading *Sample Comments*. Scroll to find your location and click on the *Sample No.* for the results. If your house was selected by the water system and you assisted in taking a Lead and Copper sample from your home but cannot find your location in the list, please contact COOPER COUNTY CONSOLIDATED PWSD # 1 for your results.

Reseller Contaminants

Regulated Contaminants	Collection Date	Water System	Highest Sample Result	Range of Sampled Result(s) (low - high)	Unit	MCL	MCLG	Typical Source
ATRAZINE	5/21/2019	THE CITY OF BOONVILLE	1.29	0 - 1.29	ppb	3	3	Runoff from herbicide used on row crops
BARIUM	1/29/2019	THE CITY OF BOONVILLE	0.0995	0.0995	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
FLUORIDE	1/29/2019	THE CITY OF BOONVILLE	0.38	0.38	ppm	4	4	Natural deposits; Water additive which promotes strong teeth
NITRATE-NITRITE	1/29/2019	THE CITY OF BOONVILLE	2.48	2.48	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Disinfection Byproducts	Monitoring Period	Water System	Highest LRAA	Range of Sampled Result(s) (low - high)	Unit	MCL	MCLG	Typical Source
(HAA5)	2019	THE CITY OF BOONVILLE	44	24.3 - 66.1	ppb	60	0	Byproduct of drinking water disinfection
TTHM	2019	THE CITY OF BOONVILLE	99	43.1 - 169	ppb	80	0	Byproduct of drinking water disinfection

Reseller Violations and Health Effects Information

During the 2019 calendar year, the water system(s) that we purchase water from had the below noted violation(s) of drinking water regulations.

Water System	Type	Category	Analyte	Compliance Period
THE CITY OF BOONVILLE	MCL, LRAA	MCL	TTHM	04/01/2019 - 06/30/2019
THE CITY OF BOONVILLE	MCL, LRAA	MCL	TTHM	07/01/2019 - 09/30/2019
THE CITY OF BOONVILLE	MCL, LRAA	MCL	TTHM	10/01/2019 - 12/31/2019

There are no additional required health effects notices.

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Optional Monitoring (not required by EPA)

Optional Contaminants

Monitoring is not required for optional contaminants.

Secondary Contaminants	Collection Date	Your Water System Highest Sampled Result	Range of Sampled Result(s) (low - high)	Unit	SMCL
ALKALINITY, CaCO3 STABILITY	3/2/2018	343	343	MG/L	
CALCIUM	3/2/2018	62.9	62.9	MG/L	
CHLORIDE	3/2/2018	10.1	10.1	MG/L	250
HARDNESS, CARBONATE	3/2/2018	287	287	MG/L	
IRON	3/2/2018	0.103	0.103	MG/L	0.3
MAGNESIUM	3/2/2018	31.5	31.5	MG/L	
MANGANESE	3/2/2018	0.00241	0.00241	MG/L	0.05
NICKEL	3/2/2018	0.00113	0.00113	MG/L	0.1
PH	3/2/2018	7.52	7.52	PH	8.5
POTASSIUM	3/2/2018	5.18	5.18	MG/L	
SODIUM	3/2/2018	15.7	15.7	MG/L	
SULFATE	3/2/2018	27.5	27.5	MG/L	250
TDS	3/2/2018	331	331	MG/L	500
ZINC	3/2/2018	0.0123	0.0123	MG/L	5

Reseller Secondary Contaminants	Collection Date	Water System Name	Highest Sampled Result	Range of Sampled Result(s) (low - high)	Unit	SMCL
ALKALINITY, CaCO3 STABILITY	1/29/2019	THE CITY OF BOONVILLE	183	183	MG/L	
ALKALINITY, TOTAL	1/29/2019	THE CITY OF BOONVILLE	220	116 - 220	MG/L	
ALUMINUM	1/29/2019	THE CITY OF BOONVILLE	0.017	0.017	MG/L	0.05
CALCIUM	1/29/2019	THE CITY OF BOONVILLE	71.4	71.4	MG/L	
CHLORIDE	1/29/2019	THE CITY OF BOONVILLE	49.3	49.3	MG/L	250
HARDNESS, CARBONATE	1/29/2019	THE CITY OF BOONVILLE	270	270	MG/L	
MAGNESIUM	1/29/2019	THE CITY OF BOONVILLE	22.2	22.2	MG/L	
METOLACHLOR	5/21/2019	THE CITY OF BOONVILLE	0.37	0 - 0.37	ppb	
PH	1/29/2019	THE CITY OF BOONVILLE	7.69	7.69	PH	8.5
POTASSIUM	1/29/2019	THE CITY OF BOONVILLE	6.31	6.31	MG/L	
SODIUM	1/29/2019	THE CITY OF BOONVILLE	51.7	51.7	MG/L	
SULFATE	1/29/2019	THE CITY OF BOONVILLE	135	135	MG/L	250
TDS	1/29/2019	THE CITY OF BOONVILLE	449	449	MG/L	500

Secondary standards are non-enforceable guidelines for contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor or color) in drinking water. EPA recommends these standards but does not require water systems to comply.