## Sacramento Waterworks 2023 Water Quality Report

Water System ID: KY0750907 Manager: James Sallee

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Meeting Address: City Hall-210 W 3rd St, Sacramento, KY Meeting Time: 3rd Monday of each month @4:30

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 may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791). To understand the possible health effects described for many regulated contaminants, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-amillion chance of having the described health effect.

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 may pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: Microbial contaminants, such as viruses and bacteria, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities). In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water to provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised 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).

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. Your local water system is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact your local water system. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at http://www.epa.gov/safewater/lead.

## Source Information:

Sacramento Waterworks purchases water from two sources. Mc Lean County Regional Water Comission (MCRWC) is our primary source. MCRWC utilizes water from the Green River, which is classified as surface water. Muhlenberg Co Water District #3, is our second source, who in turn buys from Central City Water & Sewer (CCWS). CCWS treats surface water from the Green River. CCWS & MCRWC have completed Source Water Assessment Plans to identify potential sources of contamination. For the most part the susceptibility to contamination is gernerally moderate but there are some activities that are rated high. Roads, railroads, & culverts near the intakes pose a higher risk due to the potential for accidental spills. Mining and oil and gas wells also pose a threat. Agriculture and urban runoff may cause sediment, oil and grease, road salt, fertilizers, pesticides, nutrients, toxics, and other contaminants to enter the water source. The complete Source Water Assessment Plans are available for review. MCRWC's source water assessment is available at the Green River Area Development District., (270) 926-4433. CCWS's source water assessment is available at the Pennyrile Area Development District, (270) 886-9484

We are only required to test for some contaminants periodically, so the results listed in this report may not be from the previous year. Only detected contaminants are included in this report. For a list of all contaminants we test for please contact us. Copies of this report are available upon request by contacting our office.

## Some or all of these definitions may be found in this report:

Maximum Contaminant Level (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 (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 (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 (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.

 $Below\, Detection\, Levels\, (BDL) - laboratory\, analysis\, indicates\, that\, the\, contaminant\, is\, not\, present.$ 

Not Applicable (N/A) - does not apply.

Parts per million (ppm) - or milligrams per liter, (mg/l). One part per million corresponds to one minute in two years or a single penny in \$10,000. Parts per billion (ppb) - or micrograms per liter, ( $\mu$ g/L). One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000.

Picocuries per liter (pCi/L) - a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.

Variances & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system shall follow. Treatment Technique (TT) - a required process intended to reduce the level of a contaminant in drinking water.

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

Regulated Contaminant Test Results			e	Day 4		D	~~	Dat: :f		Likely Source of	
Contaminant			Source	Report		Range		Date of		,	
[code] (units)	MCL	MCLG		Level	of Detection		Sample		Contamination		
A = Sacramento Waterworks (KY07509)	(7) B=Mcle	an Co Region	al Wat	er Commissi	on (KY075	3505)	C=Muhler	berg County V	Vater Dist #3	3 (KY0890304)	
Inorganic Contaminants	1	1								T	
Barium										Drilling wastes; metal refineries;	
[1010] (ppm)	2	2	B=	0.031	0.031	to	0.031	May-23	No	erosion of natural deposits	
			C=	0.031	0.031	to	0.031	2023	No		
Fluoride										Water additive which promotes	
[1025] (ppm)	4	4	B=	0.71	0.71	to	0.71	May-23	No	strong teeth	
			C=	0.73	0.73	to	0.73	2023	No		
Nickel (ppb)										27/4	
(US EPA remanded MCL	N/A	N/A								N/A	
in February 1995.)			C=	2	2	to	2	2023	No		
Nitrate										Fertilizer runoff; leaching from	
[1040] (ppm)	10	10	B=	1.46	0.0413	to	1.46	Feb-23	No	septic tanks, sewage; erosion of natural deposits	
			C=	1.39	1.39	to	1.39	2023	No	natural deposits	
Synthetic Organic Contaminants including Pestici	des and H	erbicides								1	
Atrazine										Runoff from herbicide used on row	
[2050] (ppb)	3	3	B= C=	0.6 0.3	0.6	to	0.6 0.3	Jul-23 2023	No No	crops	
Disinfectants/Disinfection Byproducts and Precurs	OPE		C=	0.3	0	to	0.3	2023	INO		
**	018		1								
Total Organic Carbon (ppm)	TT*	N/A	ъ	1.07	1 47	4.	4.67	2022	No	Naturally present in environment.	
(report level=lowest avg. range of monthly ratios)	11*	N/A	B= C=	1.87 1.1	1.47 0.86	to to	4.67 1.71	2023 2023	No	reactive of the control of the contr	
*Monthly ratio is the % TOC removal achieved to the % TOC rem	sval na amina d	A						2023	INU	<u> </u>	
Chlorine	MRDL	MRDLG	ge mus	1.20	eater for co	опірпа	ince.			1	
	= 4	= 4			0.71	to	1.91	2023	No	Water additive used to control	
(ppm)	- 4	- 4	A=	(highest average)	0.71	ю	1.91	2023	INO	microbes.	
HAA (ppb) (Stage 2)				average)							
[Haloacetic acids]	60	N/A	A=	32	17.7	to	38.8	2023	No	Byproduct of drinking water	
[Haloacetic acius]	00	IV/A	A-	(average)			vidual sites)	2023	140	disinfection	
TTHM (ppb) (Stage 2)				(average)	(range c	)I IIIUI	viduai sites)				
[total trihalomethanes]	80	N/A	A=	51	5.6	to	63.8	2023	No	Byproduct of drinking water	
[total ulliatoriculanes]	80	11///	Α-	(average)	(range of indiv				140	disinfection.	
Household Plumbing Contaminants		ļ	ļ	(average)	(range c	or man	viduai sites)			<u> </u>	
Copper (ppm) Round 1	AL =			0.16							
sites exceeding action level	1.3	1.3	A=	(90 <sup>th</sup>	0	to	0.18	Sep-23	No	Corrosion of household plumbing	
0	1.5	1.5	Α-	percentile)	Ü	ю	0.10	3cp-23	140	systems	
Lead (ppb) Round 1	AL =			3.8							
sites exceeding action level	15	0	A=	(90 <sup>th</sup>	0	to	11	Sep-23	No	Corrosion of household plumbing	
0	13	0	A-	percentile)	U	ю	11	3ep-23	140	systems	
Other Constituents	1	I		percentile)	1				1	l	
Turbidity (NTU) TT	Allowable		Source	Highest Single			Lowest	Violation			
• • •								/ IOIALIOII		I flack Communication 1 1 2 2	
* Representative samples  Turbidity is a measure of the clarity of the water and not a		Levels		Measurement		N	Monthly %			Likely Source of Turbidity	
ntaminant INO INOTE MAIN I					0.351						
	Less than 0.3 NTU in		B=				99	No		Soil runoff	
	95% month	ly samples	C=	0	.082		100	No			

Unregulated Contaminants (UCMR 5)		average	r	date		
perfluorobutanoic acid (PFBA)	C=	0.007	0	to	0.0135	Jul-23
perfluoropentanoic acid (PFPeA)	C=	0.001	0	to	0.0038	Oct-23

Your drinking water has been sampled for a series of unregulated contaminants. Unregulated contaminants are those that EPA has not established drinking water standards. There are no MCLs and therefore no violations if found. The purpose of monitoring for these contaminants is to help EPA determine where the contaminants occur and whether they should have a standard. As our customers, you have a right to know that these data are available. If you are interested in examining the results, please contact our office during normal business hours.

		Average	Ran	ge of De	tection
Sodium (EPA guidance level = 20 mg/L)	B=	12.30	12.3	to	12.3

This report will not be sent out to individual customers. It will be available at City Hall. If you have any questions or would like to request a paper copy, please contact our office at (270) 736-5274.