2022 Annual Water Quality Report Certification of Distribution

Public Water Supply System Name: City Of Lyons Population Served by Public Water System: 860

Account Number: NE3102103

County: Burt

This Certification of Distribution Form (filled out) and a copy of your 2022 Annual Water Quality Report <u>must</u> be received by Nebraska Dept. of Environment and Energy no later than July 1, 2023. (Mailing/email address is provided on the instructions page.)

If your CCR paperwork is not received by July 1, 2023, a violation will be issued.

The City Of Lyons community water system hereby confirms that the Annual Water Quality Report (i.e., Consumer Confidence Report) has been distributed to customers (and appropriate notices of availability have been given) in accordance with <u>Nebraska's Regulations Governing Public Water Supply Systems</u>, Title 179 NAC 14. Further, this certifies that the information contained in the report is correct and consistent with the compliance monitoring data received by Nebraska Department of Environment and Energy.

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		WO License Number:
Title:	Phone: E-mail:	Today's Date:
REQUIRED: Check the distrib	oution method(s) used, fill in the corres	sponding information blanks, and submit the required documents
Mail: Date Mailed:	(Send in a copy of your CCR w	ith this Certification.)
Hand Deliver: Date Deliv	vered: (Send in a copy of	your CCR with this Certification.)
		ewspaper clipping of your CCR, with this Certification.)
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City Of Lyons

Annual Water Quality Report For January 1 to December 31, 2022

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

Para Clientes Que Hablan Español: Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.

For more information regarding this report, or to request a hard copy, contact:

TERRY L UEDING 402-870-0612

If you would like to observe the decision-making processes that affect drinking water quality, please attend the regularly scheduled meeting of the Village Board/City Council. If you would like to participate in the process, please contact the Village/City Clerk to arrange to be placed on the agenda of the meeting of the Village Board/City Council.

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 (800-426-4791).

Source Water Assessment Availability:

The Nebraska Department of Environment and Energy (NDEE) has completed the Source Water Assessment. Included in the assessment are a Wellhead Protection Area map, potential contaminant source inventory, and source water protection information. To view the Source Water Assessment or for more information please contact the person named above on this report or the NDEE at 402-471-3376 or go to http://dee.ne.gov.

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.

Sources of Drinking 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.

The source of water used by City Of Lyons is ground water.

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.

Drinking Water Health Notes:

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).

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. All Community water systems are 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 you 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), at http://www.epa.gov/safewater/lead or at the NDEE Drinking Water Division (402-471-1009).

The City Of Lyons is required to test for the following contaminants: Coliform Bacteria, Antimony, Arsenic, Asbestos, Barium, Beryllium, Cadmium, Chromium, Copper, Cyanide, Fluoride, Lead, Mercury, Nickel, Nitrate, Nitrite, Selenium, Sodium, Thallium, Alachlor, Atrazine, Benzo(a)pyrene, Carbofuran, Chlordane, Dalapon, Di(2-ethylhexyl)adipate, Dibromochloropropane, Dinoseb, Di(2-ethylhexyl)- phthalate, Diquat, 2,4-D, Endothall, Endrin, Ethylene dibromide, Glyphosate, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Hexachlorocyclopentadiene, Lindane, Methoxychlor, Oxamyl (Vydate), Pentachlorophenol, Picloram, Polychlorinated biphenyls, Simazine, Toxaphene, Dioxin, Silvex, Benzene, Carbon Tetrachloride, o-Dichloro- benzene, Para-Dichlorobenzene, 1,2-

Dichlorethane, 1,1-Dichloroethylene, Cis-1,2,-Dichloroethylene, Trans-1,2-Dichloroethylene, Dichloromethane, 1,2-Dichloropropane, Ethylbenzene, Monochlorobenzene, 1,2,4-Trichloro- benzene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethylene, Vinyl Chloride, Styrene, Tetrachloroethylene, Toluene, Xylenes (total), Gross Alpha (minus Uranium & Radium 226), Radium 226 plus Radium 228, Sulfate, Chloroform, Bromodichloromethane, Chlorodibromomethane, Bromoform, Chlorobenzene, m-Dichlorobenzene, 1,1-Dichloropropene, 1,1-Dichloroethane, 1,2,2-Tetrachlorethane, 1,2,3-Trichloropropane, 1,1,1,2-Tetrachloroethane, Chloroethane, 2,2-Dichloropropane, o-Chlorotoluene, p-Chlorotoluene, Bromomethane, 1,3-Dichloropropane, O-Chlorotoluene, P-Chlorotoluene, Bromobenzene, 1,3-Dichloropropane, Aldrin, Butachlor, Carbaryl, Dicamba, Dieldrin, 3-Hydroxycarbofuran, Methomyl, Metolachlor, Metribuzin, Propachlor.

How to Read the Water Quality Data Table:

The EPA and State Drinking Water Program establish the safe drinking water regulations that limit the amount of contaminants allowed in drinking water. The table shows the concentrations of detected substances in comparison to the regulatory limits. Substances not detected are not included in the table. The state requires monitoring of certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Therefore, some of this data may be older than one year.

MCL (Maximum Contaminant Level) – 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.

MCLG (Maximum Contaminant Level Goal) – 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.

AL (Action Level) – The concentration of a contaminant which, if exceeded triggers treatment or other requirements which a water system must follow.

MRDL (Maximum Residual Disinfectant Level) – The highest level of a disinfectant allowed in drinking water.

N/A - Not applicable.

Units in the Table:

ND - Not detectable.

ppm (parts per million) – One ppm corresponds to 1 gallon of concentrate in 1 million gallons of water.

mg/L (milligrams per liter) - Equivalent to ppm.

ppb (parts per billion) – One ppb corresponds to 1 gallon of concentrate in 1 billion gallons of water.

ug/L (micrograms per liter) - Equivalent to ppb.

pCi/L (Picocuries per liter) – Radioactivity concentration unit. RAA (Running Annual Average) – An ongoing annual average calculation of data from the most recent four quarters.

LRAA (Locational Running Annual Average) – An ongoing annual average calculation of data from the most recent four quarters at each sampling location.

90th Percentile – Represents the highest value found out of 90% of the samples taken in a representative group. If the 90th percentile is greater than the action level, it will trigger a treatment or other requirements that a water system must follow.

TT (Treatment Technique) – A required process intended to reduce the level of a contaminant in drinking water.

This report will not be mailed out.

City Of Lyons TEST RESULTS Date Printed: 5/10/2023 NE3102103

Microbiological	Hig	Highest No. of Positive Samples			s MCL						MCLG	Likely	Source of	Contamination	Violations Present
No Detected Results	were Fo	und in the C	alend	ar Year of 20	22										
Lead and Copper	Moni Perio	itoring od	90 th Percentile		Range		Unit	AL	Sites Over AL		Likely Source of Contamination				
COPPER, FREE	2020	0 - 2022 0.254		0.0439 - 0.255		ppm	1.3	0		Erosion of natural deposits; Le Corrosion of household plumbi			aching from wood preservatives; ng.		
LEAD	2020	- 2022	2022 7.3		0 - 11		ppb	15	0		Erosion of natural deposits; Le Corrosion of household plumbi				preservatives;
Regulated Contami	egulated Contaminants Collection Date Highest Value		_	Range		Unit	MCL	MCLG	Lik	ikely Source of Contamination					
BARIUM		10/13/202	0	0.323	0.323		ppm	2	2		scharge ural dep		drilling wastes; Discharge from metal refineries; Eros		
CHROMIUM		10/13/202	0	1.02	1.02	ppb		100	100	Dis	sischarge from steel and pulp mills; Erosion of natural deposits.				
FLUORIDE		10/13/202	0	0.291	0.291		ppm	4	4		osion of natural deposits; water additive which promotes strong tea tilizer discharge.			omotes strong teeth;	
NITRATE-NITRITE		11/28/202	2	0.629	0.629		ppm	10	10		Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion on atural deposits			s, sewage; Erosion of	
Disinfection Byproducts Monitoring F			Ionitoring Po	eriod	Highest RAA	Range		Unit	M	CL	MCLG	Likely	Likely Source of Contamination		
TOTAL HALOACETIC ACIDS (HAA5) 7/1/2021 - 6		/1/2021 - 6/30	80/2022 4.75		4.08 - 5.42		ppb	60)	0	By-prod	duct of drinking water disinfection.			
TTHM 1/1/2022 - 12			31/2022	43.9 41.4 -		- 46.4	ppb)	0	By-product of drinking water disinfection.				
Unregulated Water Quality Data Collection			on Date	Date Highest Value Ra		Rang	ge		Unit	Secondary MC	L				
SULFATE			5/28/2019			53.6		53.6			mg/L	_ 250			
Ouring the 2022 cale	ndar yea	r, we had th	e bel	ow noted vid	olation(s)	of drinking	g water	regulations	<u> </u>						
Violation Type			Category Analyte								Compliance Po	eriod			
No Violations Occurr	red in the	Calendar Ye	ear of	2022							·	·			·

The City Of Lyons has taken the following actions to return to compliance with the Nebraska Safe Drinking Water Act:

Uncorrected Significant Deficiencies							
Date Identified	Facility	Category Code	Category Description				
02/25/2021	TREATMENT PLANT 001	2290	22.005 Item 3 - Failure to prevent rust and corrosion as required				
02/25/2021	HIGH SERVICE PUMPS	3040	Other Deficiencies not listed				

The uncorrected Significant Deficiencies have been corrected. All piping have been replaced or painted to protect from corrosion as required.

There are no additional required health effects notices.

There are no additional required health effects violation notices.