

Otoe Co RWD 1

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

RWD 1 water system to provide safe drinking water. about your drinking water and the efforts made by the Otoe Co This report is intended to provide you with important information

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

STEVE L EDEN 402-209-0001

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

calling the EPA's Safe Drinking Water Hotline (800-426-4791). contaminants and potential health effects can be obtained by indicate that water poses a health risk. More information about expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily Drinking water, including bottled water, may reasonably be

Source Water Assessment Availability:

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

establish limits for contaminants in bottled water which must provide the same protection for public health. water provided by public water systems. FDA regulations regulations which limit the amount of certain contaminants in In order to ensure that tap water is safe to drink, EPA prescribes

Sources of Drinking Water:

and, in some cases, radioactive material, and can pick up or through the ground, it dissolves naturally occurring minerals groundwater wells. As water travels over the surface of the land include rivers, lakes, streams, ponds, reservoirs, springs, and The sources of drinking water (both tap water and bottled water)

> human activity substances resulting from the presence of animals or from

o B drink Cons drink The source of water used by Otoe Co RWD 1 is purchased sults, ha

Otoe Co RWD 1	3uyer Name	se contact our office at the number provided above.	king water sources and add	secutive Connection (CC). To find out more about our	king water is supplied from a	and water under the direct in
City Of Nebraska City	Seller Name	number provided above.	king water sources and additional chemical sampling resu	To find out more about our	king water is supplied from another water system through	and water under the direct influence of surface water. Ou

Contaminants that may be present in source water include

- may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife Microbial contaminants, such as viruses and bacteria, which
- * Posticides and barbicides with the state of the state o be naturally occurring or result from urban storm water runoff, industrial, or domestic wastewater discharges, oil and gas Inorganic contaminants, such as salts and metals, which can
- sources such as agriculture, urban storm water runoff, and residential uses Pesticides and herbicides, which may come from a variety of
- processes and petroleum production, and can also come from volatile organic chemicals, which are by-products of industrial Organic chemical contaminants, including synthetic and
- be the result of oil and gas production and mining activities. gas stations, urban storm water runoff, and septic systems. Radioactive contaminants, which can be naturally occurring or

Drinking Water Health Notes:

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

Information on lead in drinking water, testing methods, and steps using water for drinking or cooking. If you are concerned about quality drinking water but cannot control the variety of materials Water Division (402-471-1009) http://www.epa.gov/safewater/lead or at the NDEE Drinking you can take to minimize exposure is available from the Safe lead in your water, you may wish to have you water tested exposure by flushing your tap for 30 seconds to 2 minutes before sitting for several hours, you can minimize the potential for lead used in plumbing components. When your water has been All Community water systems are responsible for providing high components associated with service lines and home plumbing If present, elevated levels of lead can cause serious health Drinking Water Hotline (800-426-4791), at Lead in drinking water is primarily from materials and problems, especially for pregnant women and young children.

contaminants: Coliform Bacteria, Antimony, Arsenic, Asbestos, Barium, Beryllium, Cadmium, Chromium, Copper, Cyanide, Fluoride, Lead, The Otoe Co RWD 1 is required to test for the following

> Carbaryl, Dicamba, Dieldrin, 3-Hydroxycarbofuran, Methomyl, Metolachlor chloroethane, Chloroethane, 2,2-Dichloropropane, o-Chlorotoluene, p-Chlorotoluene, Bromobenzene, 1,3-Dichloropropene, Aldrin, Butachlor, Chloromethane, Bromomethane, 1,2,3-Trichloropropane, 1,1,1,2-Tetra-Bromoform, Chlorobenzene, m-Dichlorobenzene, 1,1-Dichloropropene, 1,2-Dichloropropane, Ethylbenzene, Monochlorobenzene, 1,2,4-Trichlorobenzene, 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 Metribuzin, Propachlor. 228, Sulfate, Chloroform, Bromodichloromethane, Chlorodibromomethane, Pentachlorophenol, Picloram, Polychlorinated biphenyls, Simazine, Toxaphene, Dioxin, Silvex, Benzene, Carbon Tetrachloride, o-Dichloro-1,1-Dichloroethane, 1,1,2,2-Tetrachlorethane, 1,2-Dichloropropane, Cis-1,2,-Dichloroethylene, Trans-1,2-Dichloroethylene, Dichloromethane, benzene, Para-Dichlorobenzene, 1,2-Dichlorethane, 1,1-Dichloroethylene Hexachlorocyclopentadiene, Lindane, Methoxychlor, Oxamyl (Vydate), Glyphosate, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, phthalate, Diquat, 2,4-D, Endothall, Endrin, Ethylene dibromide, ethylhexyl)adipate, Dibromochloropropane, Dinoseb, Di(2-ethylhexyl)-Mercury, Nickel, Nitrate, Nitrite, Selenium, Sodium, Thallium, Alachlor, Atrazine, Benzo(a)pyrene, Carbofuran, Chlordane, Dalapon, Di(2-

How to Read the Water Quality Data Table:

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

MCLGs allow for a margin of safety in drinking water below which there is no known or expected risk to health MCLG (Maximum Contaminant Level Goal) - The level of a contaminant MCLGs as feasible using the best available treatment technology nant that is allowed in drinking water. MCLs are set as close to the MCL (Maximum Contaminant Level) - The highest level of a contami-

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

MRDL (Maximum Residual Disinfectant Level) - The highest level of a N/A - Not applicable. disinfectant allowed in drinking water.

ND – Not detectable Units in the Table:

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

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

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

pČI/L (Picocuries per liter) - Radioactivity concentration unit. RAA (Running Annual Average) - An ongoing annual average

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

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

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

Otoe CO KAND					IT (S	EST RESULTS	S		Date I	Date Printed: 3/23/2023	NE3113109
Microbiological	Highest No. of	Highest No. of Positive Samples		MCL				MCLG		Likely Source of Contamination	Violations Drosont
No Detected Results were Found in the Calendar Year of 2022	ere Found in the Ca	alendar Year of 202	2						-		Alciations Liesellt
Lead and Copper	Monitoring Period	90 th Percentile	Range		Unit	AL.	Sites Over		Source of C	Likely Source of Contamination	
COPPER, FREE	2018 - 2020	0.0258	0 - 0.0307	07	ppm	1.3	0	Erosio	n of natural d	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household nlumbing	preservatives;
LEAD	2018 - 2020	0.29	0 - 0.579	Ø	ppb	15	0	Erosio	n of natural d	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing	preservatives;
Disinfection Byproducts	CTO	Monitoring		Highest	,		:				
	6	Monitoring Period	loa	RAA	Kange		Unit	MCL	MCLG	Likely Source of Contamination	nation
I O I AL HALOACETIC ACIDS (HAA5)	ACIDS (HAA5)	1/1/2022 - 12/31/2022	1/2022	21.375	18.6 - 28.3	8.3	ppb	60	0	By-product of drinking water disinfection	rdisinfection
I		7/1/2021 - 6/30/2022	2022	66.825	57.6 - 78.3	8.3	ppb	80	0	By-product of drinking water disinfection	r disinfection.
During the 2022 calendar year, we had the below noted violation(s) of drinking water regulations.	ar year, we had the	e below noted viol	ation(s)	of drinking	water reg	ulations.					
Violation Type			Category	'	Analyte	yte				Compliance Period	riod
No Violations Occurred in the Calendar Year of 2022	in the Calendar Ye	ar of 2022									5
1											

The Otoe Co RWD 1 has taken the following actions to return to compliance with the Nebraska Safe Drinking Water Act:

Some or all of our drinking water is supplied from another water system. The table below lists all of the drinking water contaminants, which were detected during the 2022 calendar year from the water systems that we purchase drinking water from.

	guidions.	S marci ic					Catana	Typo		Water System
	Gulations	n water re	of drinkin	tion(s) c	elow noted viola	n had the b	e purchase water fron	er systems that w	ar year, the wat	During the 2022 calendar year, the water systems that we purchase water from had the below noted violation(s) of drinking water regulations
250	ma/L	143	-		143	₹	City Of Nebraska City	8/8/2022		
	mg/L	228 - 264	2:		264	Ą	City Of Nebraska City	9/9/2022	5	SIII EATE
Secondary MCL	Unit	Range	700	(Value	Hignest Value		Andrei O'Stelli	A/A/SOSS	NATE	AI KAI INITY CARBONATE
g won, I chilizer discharge.	6.0000000000000000000000000000000000000						Water System	Collection Date	ality Data	Unregulated Water Quality Data
Erosion of natural deposits; water additive which	Erosion of natu	4	4	midd	0.785	0.785	City Of Nebraska City	City	7/11/2022	FLUORIDE
natural deposits.	natural deposits.	100	100	ppb	1.69	1.69	City Of Nebraska City	City	111112022	O I I CONTROL
Naturally present in the environment	Naturally prese			7	1.01	1.0.		?	7/44/0000	
Noticelli propertie # Distortion Hatural deposits.	Noting the page			200	1 94 - 2 87	2.87	City Of Nebraska City	Citv	10/12/2022	CARBON, TOTAL
Discharge from drilling wastes; Discharge from	Discharge from	2	2	ppm	0.0311	0.0311	City Of Nebraska City	City	7/11/2022	BARIUM
Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes.	Erosion of naturunoff from glas	0	10	ppb	1.96	1.96	City Of Nebraska City	City	8/30/2021	ARSENIC
Likely Source of Contamination	Likely Source	MCLG	MCL	Unit	Range	Value	water system			Contaminants
				:)	Highest	or Dundam		Collection Date	Regulated

There are no additional required health effects notices. No Violations Occurred in the Calendar Year of 2022

Water System

Type

Category

Analyte

Compliance Period

There are no additional required health effects violation notices.