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City of Humphrey

Annual Water Quality Report For January 1 to December 31, 2023

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

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

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

402-920-2991

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 Villege/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 Diffiking Water, including bottee Water, into reasonation sexpected to contain at least small amounts of some containt-nants. 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 cailing the EPA's Safe Orinking Water Hottine (800-428-4791).

Source Water Assessment Availability: The Nebraska Department of Environment and Energy (NDEE) has completed the Source Water Assessment. Included in the assessment are a Weithead 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 pamed above on this report or the NDEE at 402-471-3376 or go to https://doi.org/10.1107/fdee.ne.gov.10.

In order to ensure that tap water is safe to drink, EPA prescribes In order to ensure must apy waver is sale to units, EFP, prescrii regulațions which limit the amount of certain contaminants in water provided by public water systems. FOA regulations establish limits for contaminants in bollled water which must provide the same protection for public health.

Sources of Drinkling Water:
The sources of drinking water (both lap water and bottled water) include rivers, takes, 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, ratioacethe material, and can pick up substances resulting from the presence of enimals or from human activity.

The source of water used by City of Humphrey 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 witdlife.

Inorganic contaminants, such as salts and metals, which can industrial, occurring or result from urban storm water funds, industrial, or domestic wastewater discharges, oil and gas production, mining, or familing.

* 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 voiallie 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

<u>Drinking Water Health Notes:</u>
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 transune system disorders, some elderty, 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 *Cryptospordium* 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. components associated with service litnes 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 stilling for several hours, you can milimize the potential for lead exposure by flushing your lap for 30 seconds to 2 minutes before using water for dirikting or cooking. If you are concerned about lead in your water, you may wish to have you water tested. Information on lead in drinking vater, testing methods, and steps you are to see the periodic and provided the service of the provided and provided the service of the servic 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 Waler Division (402-471-1009).

Water Division (1902-47 i 1909).

The City of Humphrey is required to test for the following contaminants: Collorm Bacteria, Anlimony, Arsenic, Asbestos, Bairum, Beryilum, Cadmium, Chromium, Copper, Cyanide, Fluoride, Load, Mercuy, Nicke, Nitzale, Nille, Selacium, Soddium, Thailium, Afachlor, Atrazine, Beruce(a) pyrene, Carbohran, Chiloriane, Delapon, Di(2-ehyhhexyl)-phthatate, Dioposi, 2,4-D, Endodhaf, Endrin, Etilytene dibrombe, Glyphosale, Heptachlor epoxide, Hexachlorobenzene, Hexachlorobenzene, Hodan, Melhowychlor, Oxomy (Yoydale), Pentachlorophenol, Pisloram, Polychirinated biphanyis, Simazine, Toxaphene, Dovin, Silwer, Benzeie, Carbon Tetrachloride, o-Dichlorobenzene, Para-Dichlorobenzene, 4,2-Dichlorathae, 3,1-Dichloromiylane, Ets-1,2, Lichorodhylene, Diran-1-2-Olchlorochylene, Dichloromethase, 1,2-Dichloropropane, Elhytbenzene, Monochlorobenzene, 1,2-4-Trichloroelhae, 1,1-Trichloroelhae, Thichloroethylene, Chelorobenzene, 1,1-1-Trichloroelhae, Thichloroethylene, Chelorochylene, Dichloromethylene, (1998).

Vinyt Chloride, Styrene, Tetrachloroethylene, Toluane, Xytenes (total), Gross Alpha (minus Uranium & Radium 226), Radium 228 pius Radium 226, Sultate, Chlorotom, Bromodichioromethane, Chlorotomenjahne, Bromoform, Chlorobenzene, m-Dichkrobenzene, 1,1-Bichloropropene, 1,1-Dichtoroethane, 1,1,2-Z-Tetrachlorottiane, 1,2-S-Chloropropene, Chloromethane, Bromonethane, 1,2-S-Tichtonerpoane, 1,1-Ji-Z-Tetra-chloroethane, Bromonethane, 1,2-S-Tichtonerpoane, Aldrin, Studachlor, Cardany, Quambo, Dickino, 3-Hydroxycarboturan, Methomyt, Metolachlor, Metibuzin, Propachlor.

How to Read the Water Quality Data Table:
The EPA and State Dinking 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 graphicing of cortain contaminants less than once par year because the concentrations of these contaminants do not change frequently. Therefore, some of this data may be older than one wear.

do not change irequently. Interest of the highest level of a contaminant that is allowed in diricking water. MCL (Maximum Contaminant that is allowed in diricking water. MCLs are set as close to the MCLGs as feasible using the best available treatment lechnology. MCLG (Maximum Contaminant Level Goal). The level of a contaminant in utilities water below which there is no known or expected disk to health, MCLGs allow for, a margin of safety.

AL (Action Level) - The congentration of a contaminant which, If sex-eached riggest reatment or other requirements which a water system must follow.

exceeding riggets rearriest or dulin requirements which a water system must follow.

MRDI. (Maximum Realduar Disinfectant Level):— The highest layer of a disinfectant allowed in drinking water.

N/A — Not applicable.

Units in the Table:

ND - Not detectable, proceedings of the processing and part of the processing and processing and

sampling location.

90° Percentile - Represents the highest value found out of 90% of the samples taken in a representative group, if the 90° percentile is greater than the action level, it will trigger a treatment or other requirements that a second process of the percentile of th

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

City of Humphrey

Violation Type

TEST RESULTS

Date Printed: 3/6/2024

NE3114103

Compilance Period

Microbiological	ositive Samples							MC	CLG LI	kely Source of Co	ntamination	Violations Present			
No Detected Results were Found in the Calendar Year of 2023															
Lead and Copper	Copper Monitoring Period		90 th Percentile	Range	Unit	AL	Site	s Over	AL Likely S		ource of (ce of Contamination			
COPPER, FREE	REE 2020 - 2022		0.169	0.0186 - 0.671	.ppm	1.3 0		·		Eroslon of natural deposits; Leaching from wood preservatives; Corroslon of household plumbing.					
LEAD	2020	- 2022	0.686	0 - 1,36	ppb	15	O O				on of natural deposits; Leaching from wood preservatives; Corrosion of phologophysis				
Regulated Contaminants Collection Date			e Highest Value	Range	U	nit	MCL	MCL	GL	Ikely Source of Contamination					
ARSENIC		10/24/2023	7.9	7.9	1	ppb	10	0		Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes.					
BARIUM	BARIUM		0.213	0,213	pm	2	2		Discharge from drilling wastes; Discharge from metal refineries; Erosion of natural deposits.						
CHROMIUM		7/24/2023	3,5	3,5		ph	100	100		Discharge from steel and pulp mills; Erosion of natural deposits.					
FLUORIDE		7/24/2023	0,285	0.285	. 4	pm	4	4		Erosion of natural deposits; water additive which promotes strong teeth; Fertilizer discharge.					
NITRATE-NITRITE		7/25/2023	9.76	0.103 - 9.78	!	ppm 10 10			Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits						
SELENIUM		7/24/2023	63.2	0 - 63.2		da	50	50		Eroslon of	oslon of natural deposits				
Radiological Contaminants C			Collection Date	on Date Highest Valu		Range			Unit	MCL	MCLG	Likely Source of	f Contamina	ion	
GROSS ALPHA, INCL. RADON & U			5/4/2022	5/4/2022 14.4		14.4			pCi/L	15	0	Erosion of nature	l deposits	-	
Unregulated Water Quality Data			C	Collection Date			Highest Value				Range		Unit	Secondary MCL	
SULFATE				9/12/2022				258			80.6 - 28	58	mg/L	250	

No Violations Occurred in the Calendar Year of 2023 The City of Humphrey has taken the following actions to return to compliance with the Nebraska Safe Drinking Water Act;

During the 2023 calendar year, we had the below noted violation(s) of drinking water regulations

Additional Required Health Effects Language:

While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of jow levels of arsenic which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Selembra is an essential nutrient. However, some people who drink water containing selembra in excess of the MCL over many years could experience hair or fingernell tosses, numbness in fingers or toes, or problems with their circulation,

There are no additional required health effects violation notices.