

### Village Of Firth

### For January 1 to December 31, 2020 **Annual Water Quality Report**

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

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

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

#### DAVID W HANSMEYER 402-560-4834

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

provide the same protection for public health. establish limits for contaminants in bottled water which must 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)

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

The source of water used by Village Of Firth is ground water.

# Contaminants that may be present in source water include:

- agricultural livestock operations and wildlife. may come from sewage treatment plants, septic systems, Microbial contaminants, such as viruses and bacteria, which
- production, mining, or farming. industrial, or domestic wastewater discharges, oil and gas be naturally occurring or result from urban storm water runoff, \* 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
- gas stations, urban storm water runoff, and septic systems. 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 Radioactive contaminants, which can be naturally-occurring or

## Drinking Water Health Notes:

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

Drinking Water (402-471-1008) you can take to minimize exposure is available from the Safe http://www.epa.gov/safewater/lead or at the DHHS/DPH/Office of Drinking Water Hotline (800-426-4791), at Information on lead in drinking water, testing methods, and steps lead in your water, you may wish to have you water tested. using water for drinking or cooking. If you are concerned about 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 quality drinking water, but cannot control the variety of materials All Community water systems are responsible for providing high components associated with service lines and home plumbing problems, especially for pregnant women and young children. If present, elevated levels of lead can cause serious health Lead in drinking water is primarily from materials and

D, Endothall, Endrin, Ethylene dibromide, Glyphosate, Heptachlor Lindane, Methoxychlor, Oxamyl (Vydate), Pentachlorophenol, Picloram Heptachlor epoxide, Hexachlorobenzene, Hexachlorocyclopentadiene, Dibromochloropropane, Dinoseb, Di(2-ethylhexyl)- phthalate, Diquat, 2,4-Benzo(a)pyrene, Carbofuran, Chlordane, Dalapon, Di(2-ethylhexyl)adipate, Cadmium, Chromium, Copper, Cyanide, Fluoride, Lead, Mercury, Nickel, Nitrate, Nitrite, Selenium, Sodium, Thallium, Alachlor, Atrazine, Coliform Bacteria, Antimony, Arsenic, Asbestos, Barium, Beryllium, The Village Of Firth is required to test for the following contaminants:

> Carbaryl, Dicamba, Dieldrin, 3-Hydroxycarbofuran, Methomyl, Metolachlor, Chlorotoluene, Bromobenzene, 1,3-Dichloropropene, Aldrin, Butachlor Chloromethane, Bromomethane, 1,2,3-Trichloropropane, 1,1,1,2-Tetra-chloroethane, Chloroethane, 2,2-Dichloropropane, o-Chlorololuene, p-Dichloroethane, 1,1,2,2-Tetrachlorethane, 1,2-Dichloropropane, Chlorobenzene, m-Dichlorobenzene, 1,1-Dichloropropene, 1,1-Metribuzin, Propachlor. Chloroform, Bromodichloromethane, Chlorodibromomethane, Bromoform, Uranium & Radium 226), Radium 226 plus Radium 228, Sulfate, Tetrachloroethylene, Toluene, Xylenes (total), Gross Alpha (minus Monochlorobenzene, 1,2,4-Trichloro- benzene, 1,1,1-Trichloroethane, Dichloroethylene, Dichloromethane, 1,2-Dichloropropane, Ethylbenzene, Dichlorethane, 1,1-Dichloroethylene, Cis-1,2,-Dichloroethylene, Trans-1,2-Carbon Tetrachloride, o-Dichloro- benzene, Para-Dichlorobenzene, 1,2-Polychlorinated biphenyls, Simazine, Toxaphene, Dioxin, Silvex, Benzene .1.2-Trichloroethane, Trichloroethylene, Vinyl Chloride, Styrene

## How to Read the Water Quality Data Table:

exceeded triggers treatment or other requirements which a water system must follow. AL (Action Level) - The concentration of a contaminant which, if expected risk to health. MCLGs allow for a margin of safety contaminant in drinking water below which there is no known or MCLG (Maximum Contaminant Level Goal) - The level of a MCLGs as feasible using the best available treatment technology. minant that is allowed in drinking water. MCLs are set as close to the MCL (Maximum Contaminant Level) - The highest level of a contafrequently. Therefore, some of this data may be older than one year. because the concentrations of these contaminants do not change requires monitoring of certain contaminants less than once per year Substances not detected are not included in the table. The state detected substances in comparison to the regulatory limits. allowed in drinking water. The table shows the concentrations of drinking water regulations that limit the amount of contaminants The EPA and State Drinking Water Program establish the safe

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

### Units in the Table:

ppm (parts per million) - One ppm corresponds to 1 gallon of mg/L (milligrams per liter) - Equivalent to ppm concentrate in 1 million gallons of water

ug/L (micrograms per liter) – Equivalent to ppb. pC/I/L (Picocuries per liter) – Radioactivity concentration unit. in 1 billion gallons of water. ppb (parts per billion) - One ppb corresponds to 1 gallon of concentrate

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

than the action level, it will trigger a treatment or other requirements that a 90th Percentile – Represents the highest value found out of 90% of the 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

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							CION	ANCIC Libely Source Of Contamination Violations Present	Violations Present
	11:44-14	of Docitive Sample	Ų	MCL			MICEG	Lineily Source of contract	
Microbiological	Highest No.	Highest No. of Positive Samples	22					+according - It	
COLIEDRM (TCR)	In the month	In the month of October, 2 sample(s) were	le(s) were	Treatment	t Techniq	Treatment Technique Trigger	0	Naturally present in the envilonment	2
( )	positive								
						1			
t and and Conner	Monitoring	90th Percentile	Range	Unit	AL	Over AL		ntamination	9
Lead and Coppe	Period						Erosion of natural dec	Erosion of natural deposits: Leaching from wood preservatives; Corrosion of	Corrosion of
CODDER FREE	2017 - 2019	0.319	0.0681 -	mdd	<del>د</del> :	0	household plumbing.		9
			1.4.0				Frosion of natural dec	Fracion of natural deposits: Leaching from wood preservatives; Corrosion of	Corrosion or
LEAD	2017 - 2019	3.8	0.542 - 5.76	qdd	15	0	household plumbing.		
			,		-				

	Collection	Highest	Range	Unit	MCL	MCLG	Likely Source Of Contamination
Regulated Contaminants	Date	Value	26				the state of the s
	0.001.0017	1 27	1.06 -	qaa	10	0	Erosion of natural deposits; runoil itorii ordiarus, runoil itorii giaco and
ARSENIC	0/21/2011	77.	1.27	1	500		production waster.
N 11 11 0 4 0	1/26/2016	0.137	0.0966	mdd	2	2	Discharge from drilling wastes, Discharge from fried from control consists.
BARIOM	2.03.03.1		- 0.13/				Frosion of natural deposits: water additive which promotes strong teeth; Fertilizer
FLUORIDE	1/26/2016	0.401	0.288 -	mdd	4	4	discharge.
		7.40	6.55 -	maa	10	10	Runoff from fertilizer use, Leaching from septic tanks, sewaye, Libsion of increases
NITRATE-NITRITE	0202/61/8	04.7	7.48	2			OBDOSIIS
SELENIUM	1/26/2016	9.25	0 - 9.25	qdd	20	20	Erosion of natural deposits
Radiological Contaminants	Collection	Highest Value	Range	Unit	it MCL	T MCLG	Likely Source Of Contamination
COMBINED BADIUM (-226 & -	+	0.578	0	578 pCi/L	5	0	Erosion of natural deposits
228)	8/1/2018	0.0	2		+		
GROSS ALPHA, INCL.	8/1/2018	5.05	0 - 5.05		pCi/L 15	0	Erosion of natural deposits
RADON & U	200	0.678	0-0	578		0	Erosion of natural deposits.
RADIUM-226	8/1/2018	0.37.0	0.0	2			TOPE .
						Hakant Value	Range Unit Secondary MCL

				11	I M Viebucco
	Oston Date	Highest Value Range	Range	Onic	Secondary more
Washington Mater Data	Collection pare			"	260
Ullegulated Water sciency point	44/04/0048	28.3	15.4 - 28.3	mg/L	730
SILLEATE	11/21/2010	0.52			
Sofon molecular Lead to be and the motor	d violation(s) of drinking W	afer regulations.			Position 1
During the 2020 calendar year, We had use below social posterior	Cotonal Cotonal	Analyte			Compliance Period

SELENIUM Analyte

Category

MCL

MCL, AVERAGE Violation Type

10/01/2020 - 12/31/2020

The Village Of Firth has taken the following actions to return to compliance with the Nebraska Safe Drinking Water Act.

Selenium well # 20101-Highest value 61.5 UG/L – 2020 average 57.45 UG/L

Corrective Action- Well #20101 was put in Emergency Status Only December 18, 2020

# Additional Required Health Effects Language:

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

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other potentially harmful bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

There are no additional required health effects violation notices.