2023 WATER QUALITY REPORT FOR Greenfield Municipal Utilities

This report contains important information regarding the water quality in our water system. The source of our water is groundwater and surface water. Our groundwater is drawn from wells in alluvial aquifers along the Nodaway River West of Greenfield. Our surface water is drawn from Lake Greenfield, Nodaway Lake, and the Nodaway River.

MCL-(MCLG)	COMPLIANCE		DATE	VIOLATION	SOURCE
	Туре	Value & Range		Yes/No	
80 (N/A)	LRAA	51.00 (37 - 62)	9/30/2023	No	By-products of drinking water chlorination
60 (N/A)	LRAA	37.00 (24 - 52)	9/30/2023	No	By-products of drinking water disinfection
AL=15 (0)	90th	2.00 (ND - 3)	2023	No	Corrosion of household plumbing systems; Erosion of natural deposits
AL=1.3 (1.3)	90th	0.23 (0.05 - 0.38)	2023	No	Corrosion of household plumbing systems; Erosion of natural deposits
YSTEM				-	
MRDL=4.0 (MRDLG=4.0)	RAA	1.51 (1.31 – 1.85)	12/31/2023	No	Water additive used to control microbes
E & WELLS 1-6					
N/A (N/A)	SGL	10	04/19/2023	No	Erosion of natural deposits; Added to water during treatment process
4 (4)	SGL	1.07 (0.64 – 1.07)	2023	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
10 (10)	SGL	0.76	2023	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
2 (2)	SGL	0.15	4/25/2022	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
N/A (N/A)	TT	0.297 100.00% of Samples Meet Requirements	2023	No	Soil runoff
3 (3)	SGL	0.10	11/16/2021	No	Runoff from herbicide used on row
	80 (N/A) 60 (N/A) AL=15 (0) AL=1.3 (1.3) YSTEM MRDL=4.0 (MRDLG=4.0) E & WELLS 1-6 N/A (N/A) 4 (4) 10 (10) 2 (2) N/A (N/A)	Type 80 (N/A) LRAA 60 (N/A) LRAA 60 (N/A) LRAA AL=15 (0) 90th AL=1.3 (1.3) 90th YSTEM MRDL=4.0 (MRDLG=4.0) RAA E & WELLS 1-6 N/A (N/A) SGL 10 (10) SGL 2 (2) SGL N/A (N/A) TT TT	Type Value & Range 80 (N/A) LRAA 51.00 (37 - 62) 60 (N/A) LRAA 37.00 (24 - 52) AL=15 (0) 90th 2.00 (ND - 3) AL=1.3 (1.3) 90th 0.23 (0.05 - 0.38) YSTEM MRDL=4.0 (MRDLG=4.0) RAA 1.51 (1.31 - 1.85) E & WELLS 1-6 N/A (N/A) SGL 10 4 (4) SGL 1.07 (0.64 - 1.07) 10 (10) SGL 0.76 2 (2) SGL 0.15 N/A (N/A) TT 0.297 100.00% of Samples Meet Requirements	Type Value & Range 80 (N/A) LRAA 51.00 (37 - 62) 9/30/2023 60 (N/A) LRAA 37.00 (24 - 52) 9/30/2023 AL=15 (0) 90th 2.00 (ND - 3) 2023 AL=1.3 (1.3) 90th 0.23 (0.05 - 0.38) 2023 YSTEM MRDL=4.0 (MRDLG=4.0) RAA 1.51 (1.31 - 1.85) 12/31/2023 E & WELLS 1-6 N/A (N/A) SGL 10 04/19/2023 4 (4) SGL 1.07 (0.64 - 1.07) 2023 10 (10) SGL 0.76 2023 2 (2) SGL 0.15 4/25/2022 N/A (N/A) TT 0.297 100.00% of Samples Meet Requirements 2023	Type Value & Range Yes/No 80 (N/A) LRAA 51.00 (37 - 62) 9/30/2023 No 60 (N/A) LRAA 37.00 (24 - 52) 9/30/2023 No AL=15 (0) 90th 2.00 (ND - 3) 2023 No AL=1.3 (1.3) 90th 0.23 (0.05 - 0.38) 2023 No YSTEM

Note: Contaminants with dates indicate results from the most recent testing done in accordance with regulations.

DEFINITIONS

- 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.
- ppb parts per billion
- ppm parts per million
- pCi/L picocuries per liter
- N/A Not applicable
- ND Not detected
- RAA Running Annual Average
- Action Level (AL) The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- Treatment Technique (TT) A required process intended to reduce the level of a contaminant in drinking water.
- Action Level (AL) The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

- 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.
- 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.
- SGL Single Sample Result
- RTCR Revised Total Coliform Rule
- NTU Nephelometric Turbidity Units

GENERAL INFORMATION

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 posed a health risk. More information about contaminants or potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

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).

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. GREENFIELD MUNICIPAL UTILITIES 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 your 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 or at http://www.epa.gov/safewater/lead.

ADDITIONAL HEALTH INFORMATION

If you are caring for an infant, you should ask advice from your health care provider. Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community because of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (800-426-4791).

OTHER VIOLATIONS

None

SOURCE WATER ASSESSMENT INFORMATION

Greenfield Municipal Utilities obtains some of its water from shallow wells in alluvial aquifers along the Nodaway River west of Greenfield. These alluvial aquifers have been determined to be highly susceptible to contamination from agriculture runoff because the characteristics of the aquifers and the overlying materials provide little protection from contamination at the land surface. The Alluvial wells will be highly susceptible to surface contaminates such as leaking underground storage tanks, contaminant spills, and excess fertilizer application. A detailed evaluation of your source water was completed by the Iowa Department of Natural Resources and is available from the General Manager (844-580-0810 x3). Greenfield Municipal Utilities obtains the remainder of its water from Lake Greenfield & Nodaway Lake. A Source Water Assessment of these lakes has determined that both lakes are highly susceptible to contamination from agriculture runoff because they are surface water supplies. The Howard R. Green Company completed a detailed evaluation of these surface water supplies and is available from the General Manager (844-580-0810 x3).

OTHER INFORMATION

Turbidity is an indicator of treatment filter performance and is regulated as a treatment technique.

CONTACT INFORMATION

For questions regarding this information, please contact Scott Tonderum, Greenfield Municipal Utilities General Manager at 844-580-0810 x3 (7:00-3:30 M-F) or E-mail at <u>scott.tonderum@gmu-ia.com</u>.

Decisions regarding the Greenfield Municipal Utilities water system are made at Board of Trustees meetings normally held at 8:00 AM on the second Tuesday of the month at City Hall and are open to the public. Please contact the office at 844-580-0810 x2 to confirm the date and time of the next meeting.

Copies of this report are available at the Utilities Office during normal working hours.