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2022 WATER QUALITY REPORT FOR

WAPELLO RURAL WATER ASSOC.

This report contains important information regarding the water quality in our water system. The source of our water is surface water and groundwater. Some of the water is purchased. Purchased water comes from Ottumwa Water Works, MOUNT PLEASANT MUNICIPAL UTILITIES and RATHBUN REGIONAL WATER ASSN (RATHBUN). Our water quality testing shows the following results:

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation Yes/No	Source
		Type	Value & (Range)			
Copper (ppm)	AL=1.3 (1.3)	90th	0.0522 (0.0026 - 0.160)	2022	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead (ppb)	AL=15 (0)	90th	1.50 (ND - 4)	2022	No	Corrosion of household plumbing systems; erosion of natural deposits
950 - DIST SYS 950 GROUNDWATER SYSTEMS						
Chlorine (ppm)	MRDL=4.0 (MRDLG=4.0)	RAA	1.4 (0.48 - 3)	03/31/2022	No	Water additive used to control microbes
Total Trihalomethanes (ppb) [TTHM]	80 (N/A)	SGL	73.00	10/24/2022	No	By-products of drinking water chlorination
Total Haloacetic Acids (ppb) [HAA5]	60 (N/A)	SGL	12.00	10/24/2022	No	By-products of drinking water disinfection
951 - DIST SYS 951 SURFACE WATER						
Chlorine (ppm)	MRDL=4.0 (MRDLG=4.0)	RAA	2.2 (0.5 - 3.2)	12/31/2022	No	Water additive used to control microbes
Total Trihalomethanes (ppb) [TTHM]	80 (N/A)	SGL	36.00	10/24/2022	No	By-products of drinking water chlorination
Total Haloacetic Acids (ppb) [HAA5]	60 (N/A)	SGL	13.00	10/24/2022	No	By-products of drinking water disinfection
05 - S/EP FROM WELLS 1 - 7						
Combined Radium (pCi/L)	5 (0)	SGL	1.1	07/06/2021	No	Erosion of natural deposits
Fluoride (ppm)	4 (4)	SGL	0.63	10/10/2022	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A (N/A)	SGL	12	10/10/2022	No	Erosion of natural deposits; Added to water during treatment process
Dalapon (ppb)	200 (200)	SGL	0.30	11/02/2022	No	Runoff from herbicide used on rights of way

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
- 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. WAPELLO RURAL WATER ASSOC. is 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>.

SOURCE WATER ASSESSMENT INFORMATION

This water supply obtains its water from the sand and gravel of the Alluvial aquifer. The Alluvial aquifer was determined to be highly susceptible to contamination because the characteristics of the aquifer and overlying materials provide little protection from contamination at the land surface. The Alluvial wells will be highly susceptible to surface contaminants 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 Water Operator at 641-682-8351

This water supply obtains some or all of its water from another public water supply. It is a consecutive water supply, where an originating parent supply provides drinking water to one or more downstream supplies.

Original Supply ID	Original Supply Name
IA9083012	Ottumwa Water Works
IA4453016	MOUNT PLEASANT MUNICIPAL UTILITIES
IA0400900	RATHBUN REGIONAL WATER ASSN (RATHBUN)

OTHER INFORMATION

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

CONTACT INFORMATION

For questions regarding this information or how you can get involved in decisions regarding the water system, please contact WAPELLO RURAL WATER ASSOC. at 641-682-8351.

PURCHASED WATER INFORMATION

Our water system purchases water from the system(s) shown below. Their water quality is as follows:

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation	Source
		Type	Value & (Range)			
4453016 - MOUNT PLEASANT MUNICIPAL UTILITIES						
03 - S/EP FROM WELL #4(1946)						
Gross Alpha, inc (pCi/L)	15 (0)	SGL	2.5	04/06/2021	No	Erosion of natural deposits
Combined Radium (pCi/L)	5 (0)	SGL	1.5	04/06/2021	No	Erosion of natural deposits
Fluoride (ppm)	4 (4)	SGL	1.1	04/09/2019	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A (N/A)	SGL	130	04/12/2022	No	Erosion of natural deposits; Added to water during treatment process
05 - S/EP FROM WELL #6 (1997)						
Gross Alpha, inc (pCi/L)	15 (0)	SGL	3.3	04/06/2021	No	Erosion of natural deposits
Combined Radium (pCi/L)	5 (0)	SGL	2	04/06/2021	No	Erosion of natural deposits
Fluoride (ppm)	4 (4)	SGL	1.4	04/09/2019	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A (N/A)	SGL	130	04/12/2022	No	Erosion of natural deposits; Added to water during treatment process
9083012 - OTTUMWA WATER WORKS						
01 - S/EP FRM DM RIV & OTT RES AFTR TRTMT						
Selenium (ppb)	50 (50)	SGL	1.20	01/13/2021	No	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines
Fluoride (ppm)	4 (4)	RAA	0.50 (0.300 - 0.700)	06/30/2022	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Barium (ppm)	2 (2)	SGL	0.0746	01/13/2021	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Sodium (ppm)	N/A (N/A)	SGL	49.7	02/08/2022	No	Erosion of natural deposits; Added to water during treatment process
Nitrate [as N] (ppm)	10 (10)	SGL	9.000 (0.700 - 9.000)	--2022	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Atrazine (ppb)	3 (3)	SGL	0.29	07/26/2022	No	Runoff from herbicide used on row crops
Turbidity (NTU)	N/A (N/A)	TT	Enter highest single measurement and the lowest monthly percentage of samples meeting turbidity limits here.			Soil runoff
0400900 - RATHBUN REGIONAL WATER ASSN (RATHBUN)						
01 - EAST PLANT @ AFTER TREATMENT						

Fluoride (ppm)	4 (4)	SGL	0.74	01/13/2022	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Barium (ppm)	2 (2)	SGL	0.06	01/13/2022	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Sodium (ppm)	N/A (N/A)	SGL	28	01/13/2022	No	Erosion of natural deposits; Added to water during treatment process
Atrazine (ppb)	3 (3)	SGL	0.50	04/06/2022	No	Runoff from herbicide used on row crops
Dalapon (ppb)	200 (200)	SGL	0.30	04/06/2022	No	Runoff from herbicide used on rights of way
03 - WEST PLANT @ AFTER TREATMENT						
Sodium (ppm)	N/A (N/A)	SGL	29	01/13/2022	No	Erosion of natural deposits; Added to water during treatment process
Atrazine (ppb)	3 (3)	SGL	0.20	02/05/2020	No	Runoff from herbicide used on row crops
Turbidity (NTU)	N/A (N/A)	TT	Enter highest single measurement and the lowest monthly percentage of samples meeting turbidity limits here.			Soil runoff