

2023 WATER QUALITY REPORT

FOR

City of Moulton Water Department

PWSID# 0472012

This report contains important information regarding the water quality in our water system. The water source for Moulton is Rathbun Regional Water Association, Inc. RRWA obtained its source water in 2023 from the Chariton River, below Lake Rathbun Dam, and directly from Rathbun Lake both a surface water source.

Our water quality testing shows the following results:

CONTAMINANT	MCL - MCLG	Compliance Type	Value & (Range)	Date	Violation	Source
MOULTON						
TTHM (ppb) [Total trihalomethanes]	80 (N/A)	LRAA	39.00 (30 – 58)	06/30/2023	No	By-products of drinking water disinfection
TTHM (ppb) [Total trihalomethanes]	80 (N/A)	LRAA	39.00 (30 – 59)	06/30/2023	No	By-products of drinking water disinfection
Haloacetic Acids (HAA5) (ppb)	60 (N/A)	LRAA	21.00 (17 – 23)	06/30/2023	No	By-products of drinking water disinfection
Copper (ppm)	AL=1.3 (1.3)	90 th	0.188 (0.0245 – 0.210)	2021	No	Corrosion of household plumbing systems; erosion of natural deposits; Leaching from wood preservatives
Lead (ppb)	AL=15 (0)	90 th	ND	2021	No	Corrosion of household plumbing systems; erosion of natural deposits
950 – DISTRIBUTION SYSTEM						
Chlorine (ppm)	MRDL= 4.0 (MRDLG= 4.0)	RAA	2.7 (1.7 – 3.2)	12/31/2023	No	Water additive used to control microbes
RRWA						
950 – DISTRIBUTION SYSTEM						
01 - EAST PLANT @ AFTER TREATMENT						
Barium (ppm)	2 (2)	SGL	0.06	01/13/2022	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Fluoride (ppm)	4 (4)	SGL	0.82 (0.62-0.82)	01/04/2023	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A (N/A)	SGL	29	01/13/2023	No	Erosion of natural deposits; Added to water during treatment process
Atrazine (ppb)	3 (3)	SGL	0.60	04/12/2023	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
Turbidity (NTU)	N/A (N/A)	TT	0.07 (100%)	2023	No	Soil runoff
Total Organic Carbon	30%	TT	(36.7 – 52.1)	08/2023	No	Naturally Present in the Environment
03 - WEST PLANT @ AFTER TREATMENT						
Barium (ppm)	2 (2)	SGL	0.07	01/13/2023	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Fluoride (ppm)	4 (4)	SGL	0.68	01/13/2023	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories

OTHER INFORMATION

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

SOURCE WATER ASSESSMENT INFORMATION

The City of Moulton Water Department obtains its water from the Rathbun Regional Water Association, Inc. whose source water in 2023 was the Chariton River after discharge from Rathbun Lake and directly from Rathbun Lake. This is a surface water source. RRWA's Chariton River intake is located below the Rathbun Lake Dam and the Rathbun Lake intake is located directly in Rathbun Lake. An assessment of the watershed has been completed that identifies and prioritizes potential sources of water pollution in the Rathbun Lake watershed that may impair the quality of the raw water for RRWA. These potential sources include wastewater treatment facilities, institutional, retail, and industrial facilities, recreational facilities, residential and commercial areas and land used for agricultural production with characteristics that increase the likelihood of eroded soil, chemicals and livestock waste being carried in runoff to streams, rivers and the lake. For a summary of the watershed assessment results and additional information contact: RRWA at 16166 Hwy J29, Centerville, IA 52544 or call 641-647-2416.

Surface Water Name	Susceptibility
Chariton River	High
Rathbun Lake	High

CONTACT INFORMATION

For questions regarding this information, please contact Vicki Withrow, City Clerk, at 641-642-3328.

Decisions regarding the water system are made at the regular scheduled meetings held on the first Monday of each month at 6:00 p.m. at the Moulton City Hall, Moulton, IA. Please call 641-642-3328 to be placed on the agenda and confirm the day and time of the meeting.