

# 2009 WATER QUALITY REPORT FOR City of Clermont, Iowa

This report contains important information regarding the water quality in our water system. The source of our water is groundwater. Our groundwater is drawn from the Middle Ordovician (Galena, Decorah, St. Peter), Cambrian Jordan Sandstone aquifer(s). Our water quality testing shows the following results:

CONTAMINANT	MCLG	DETECTED LEVEL	DATE SAMPLED	RANGE OF DETECTION	VIOLATION	SOURCE
Lead (ppb)	0	0	8-27-07	0	NO	Corrosion of household plumbing systems; erosion of natural deposits
Chlorine (ppm)	MRDLG =4.0	Free---- 0.19 Total--0.25	12-1-09	0.19-1.21	NO	Water additive used to control microbes
Copper (ppm)	1.3	0.749	9-30-07	0.057-0.877	NO	Corrosion of household plumbing systems; Erosion of natural deposits
Total Coliform Bacteria	0	0	12-30-08	TCR-0	NO	Naturally present in the environment
Alpha emitters (pCi/L)	0	NA	3-26-07	SGL-3.3	NO	Erosion of natural deposits
Combined radium (pCi/L)	0	NA	3-26-07	SGL-2.6	NO	Erosion of natural deposits
Sodium (ppm)	N/A	NA	4-29-08	SGL-6.6	NO	Erosion of natural deposits; Added to water during treatment process
Nitrate [as N] (ppm)	10	3.0	12-31-09	SGL-5.2	yes	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
TTHM (ppb) [Total trihalomethanes]	N/A	< 2.00ug/l	8-29-08	2.00	NO	By-products of drinking water disinfection
Haloacetic Acids (HAA5) (ppb)	N/A	< 5.00ug/l	9-11-08	5.00	NO	By-products of drinking water disinfection

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
- IDSE – Initial Distribution System Evaluation
- 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.