

# 2023 WATER QUALITY REPORT FOR PALO WATER SUPPLY

This report contains important information regarding the water quality in our water system. The source of our water is groundwater. Our water quality testing shows the following results:

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation Yes/No	Source
		Type	Value & (Range)			
Lead (ppb)	AL=15 (0)	90th	1.00 (ND - 2)	2021	No	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	AL=1.3 (1.3)	90th	0.63 (0.0953 - 0.669)	2021	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
<b>950 - DISTRIBUTION SYSTEM</b>						
Chlorine (ppm)	MRDL=4.0 (MRDLG=4.0)	RAA	3.1 (1.91 - 5)	06/30/2023	No	Water additive used to control microbes
Total Trihalomethanes (ppb) [TTHM]	80 (N/A)	SGL	17.30	11/28/2023	No	By-products of drinking water chlorination
Total Haloacetic Acids (ppb) [HAA5]	60 (N/A)	SGL	10.50	11/28/2023	No	By-products of drinking water disinfection
<b>02 - S/EP FROM WELL #1</b>						
Gross Alpha, inc (pCi/L)	15 (0)	SGL	12.8	04/13/2022	No	Erosion of natural deposits
Combined Radium (pCi/L)	5 (0)	SGL	4.6	09/18/2019	No	Erosion of natural deposits
Barium (ppm)	2 (2)	SGL	0.0285	04/28/2021	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Fluoride (ppm)	4 (4)	SGL	0.5	04/28/2021	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A (N/A)	SGL	38.1	04/28/2021	No	Erosion of natural deposits; Added to water during treatment process
Nitrate [as N] (ppm)	10 (10)	SGL	4.000 (3.100 - 4.000)	2023	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
<b>03 - S/EP FROM WELL #2</b>						
Gross Alpha, inc (pCi/L)	15 (0)	SGL	2.76	08/10/2022	No	Erosion of natural deposits
Combined Radium (pCi/L)	5 (0)	SGL	4.05	08/10/2022	No	Erosion of natural deposits
Fluoride (ppm)	4 (4)	SGL	0.5	08/10/2022	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Barium (ppm)	2 (2)	SGL	0.0281	08/10/2022	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Sodium (ppm)	N/A (N/A)	SGL	37.9	08/10/2022	No	Erosion of natural deposits; Added to water during treatment process
Nitrate [as N] (ppm)	10 (10)	SGL	4.200 (3.100 - 4.200)	2023	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

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. PALO WATER SUPPLY 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>.

## OTHER VIOLATIONS

In April 2023 we failed to monitor for Nitrite (as N). Adverse health effects, if any, are not known. Monitoring procedures have been corrected to avoid future violations.

## SOURCE WATER ASSESSMENT INFORMATION

This water supply obtains its water from the dolomite and limestone of the Silurian aquifer. The Silurian aquifer was determined to be susceptible to contamination because the characteristics of the aquifer and overlying materials provide some protection from contaminants from the land surface. The Silurian wells will be 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 319-851-2731 .

### **CONTACT INFORMATION**

For questions regarding this information or how you can get involved in decisions regarding the water system, please contact PALO WATER SUPPLY at 319-851-2731.



# CCR Certification Form

For Systems that must mail the CCR

**PALO WATER SUPPLY**  
**PWSID: 5765101**

The community water system indicated above hereby confirms that the Consumer Confidence Report (CCR) has been distributed to customers (and appropriate notices of availability have been given) and that the information is correct and consistent with the compliance monitoring data previously submitted to IDNR by your certified laboratory.

The following steps must be completed for distribution of the CCR. It is necessary that these steps are followed to assure that all of your consumers are aware of the report.

1) CCR must be distributed by mail, electronic delivery, or other form of direct delivery. Refer to the following website for electronic delivery options:  
<https://www.epa.gov/ccr/how-water-utilities-can-electronically-delivery-their-ccr>  
 Provide the date of distribution and type of delivery method, and URL if distributed electronically:

2) In addition to direct delivery, a good faith effort must be used to reach non-bill paying consumers. The following methods are recommended by IDNR. Provide the date of completion for each that apply:

- Posting of the CCR on the Internet at http://
- Mailing the CCR to postal patrons within the service area (attach zip codes used).
- Advertising availability of the CCR in news media (attach copy of announcement).
- Publication of the CCR in local newspaper (attach copy).
- Posting the CCR in public places (attach list of locations).
- Delivery of multiple copies of the CCR to single bill addresses serving several persons such as: apartments, businesses, and large private employers.
- Delivery of the CCR to community organizations (attach list).

Systems serving more than 100,000 persons must also post the CCR on a publicly accessible Internet site. List Internet Site address and the date completed:

http:// cityofpalo.com Date 10-20-2024

Certified by: Name Allison Groff  
 Title Deputy Clerk  
 Phone # 319-851-2731 Date of Delivery 10-20-2024

Return to: ATTN: John Warren  
 Iowa DNR Water Supply Operations Section  
 Wallace State Office Building  
 502 E. 9th Street  
 Des Moines, IA 50319-0034



Gateway to the Outdoors

Posting of the CCR on the internet at <https://cityofpalo.com>. Posted in News & Announcements and under Public Works tab.

Mailing the CCR to postal patrons within the service area. The link was posted on our utility billing that will go out on our July 1<sup>st</sup> billing..

CITY OF PALO • 2800 HOLLENBECK RD • PALO, IOWA 52324 • (319) 851-2731

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FROM	TO	BILLING DATE	PREV BALANCE	
5/28/24	6/26/24	7/01/24		
READINGS		CONSUMPTION USED	CODE	CURRENT CHARGES
PREVIOUS	PRESENT			
2081	2084	300	GB	21.46
2081	2084	300	SW	43.69
			WA	23.18
			ET	1.39
			AR	110.84-
www.cityofpalo.com 23 WA Repor				

  

ACCOUNT NUMBER	DUE DATE
	7/20/24
AMOUNT DUE AFTER DUE DATE	AMOUNT DUE NOW
CR/DO NO-	21.12-
PROPERTY LOCATION	

RETURN THIS STUB WITH PAYMENT

ACCOUNT NUMBER	DUE DATE
	7/20/24
AMOUNT DUE AFTER DUE DATE	AMOUNT DUE NOW
CR/DO NO-	21.12-

PALO IA

52324-0242

Posting the CCR in public places: Palo City Hall, Post Office, Community Board.