North Lauderdale Water Association

2023 Drinking Water Quality Report

PWS ID# MS0380006

18 June 2024

The North Lauderdale Water Association presents our annual Water Quality / Consumer Confidence Report (CCR) for the period of January 1 through December 31, 2023. Our mission is to consistently provide our members with healthful, high-quality drinking water. Our system recently received its 9th consecutive perfect score on our annual MS Department of Health management inspection. Our water quality is tested far more frequently (4 times a day) and thoroughly (for more than 70 substances) than bottled water from the supermarket. **Your NLWA drinking water meets all state and federal standards with zero violations.**

NLWA water is drawn from 5 wells that tap the Lower Wilcox Aquifer at depths between 450 and 650 feet. The MS Department of Health has performed a source water assessment for each well and these can be viewed on request at the NLWA main office. Our water supply is ranked low to moderate for susceptibility to contamination.

The Environmental Protection Agency (EPA) requires testing for many substances at various intervals from every month to every 9 years. The table below shows the most recent results of each type of water test. Sample counts with an asterisk (*) refer to tests performed before 2023. As water travels over land or underground, it can pick up substances such as microbes, inorganic and organic chemicals, and radioactive elements. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some of these substances. As testing technology improves, smaller amounts become detectable. The presence of these substances in small amounts does not necessarily pose a health risk.

Lead and Copper – Tested every 3 years at faucets in members' homes (2022)

Substance	Upper Limit (AL)	Threshold (MCLG)	90% of Tests Less Than	Samples Above Limits	Total Samples	Violation	Typical Sources
Lead	15 ppb	0	1.0 ppb	0	20*	No	•Corrosion of household plumbing •Leaching of natural mineral deposits
Copper	1.3 ppm	1.3 ppm	0.3 ppm	0	20*	No	•Corrosion of household plumbing •Leaching of natural mineral deposits •Leaching from wood preservatives

Microbial – Tested monthly at distribution system sampling points

Type	Upper Limit (MCL)	Threshold (MCLG)	Highest Rate	Positive Samples	Total Samples	Violation	Typical Sources
Coliform	1 pos/mo	0 pos/mo	0 pos/mo	0	120	No	•Naturally present in environment •Livestock & agriculture runoff •External contamination at sample tap

Chemical & Radiological – Tested regularly in treatment plants and distribution system sampling points

Substance	Upper Limit (MCL/AL)	Threshold (MCLG)	Range of Test Results		Total Samples	Violation	Typical Sources
			Low	High			
Antimony	6.0 ppb	0.5 ppb	No Detect	No Detect	3*	No	•Petroleum refineries •Electronics-================
Arsenic	10 ppb	0.5 ppb	No Detect	No Detect	3*	No	•Leaching of natural mineral deposits •Runoff from orchards •Glass and electronics factories
Barium	2.0 ppm	2.0 ppm	0.069 ppm	0.089ppm	3*	No	•Leaching of natural mineral deposits •Drilling wastes •Metal refineries
Beryllium	4.0 ppb	4.0 ppb	No Detect	No Detect	3*	No	•Metal fabrication and coatings •Coal-burning plants
Cadmium	5.0 ppb	5.0 ppb	No Detect	No Detect	3*	No	•Metal fabrication and coatings •Cement and power plants •Tanning and leather work
Chloride	250 ppm	NA	9.2 ppm	9.2 ppm	1*	No	•Leaching of natural mineral deposits
Chromium	100 ppb	100 ppb	No Detect	No Detect	3*	No	•Leaching of natural mineral deposits •Metal fabrication and coatings
Cyanide	200 ppb	200 ppb	No Detect	No Detect	4*	No	•Discharge from metal, plastic, fertilizer plants
Gross Alpha	15 pCi/L	0	1.0 pCi/L	1.5 pCi/L	4*	No	•Leaching of natural mineral deposits
Iron	300 ppb	NA	58 ppb	58 ppb	1*	No	•Leaching of natural mineral deposits
Manganese	NA	50 ppb	1.4 ppb	15 ppb	3*	No	•Leaching of natural mineral deposits •Steel production •Dietary supplement
Mercury	2.0 ppb	2.0 ppb	No Detect	No Detect	3*	No	•Leaching of natural mineral deposits •Coal-burning plants •Cropland runoff & factory discharge
Nickel	N/A	5.0 ppb	No Detect	No Detect	3*	No	•Leaching of natural mineral deposits

Radium, Tot.	5 pCi/L	0	0.4 pCi/L	4.0 pCi/L	4*	No	•Leaching of natural mineral deposits
Nitrate	10 ppm	10 ppm	No Detect	No Detect	4	No	•Runoff from fertilizer use •Leaking septic tanks, sewage •Leaching of natural mineral deposits
Nitrate-Nitrite	10 ppm	10 ppm	No Detect	No Detect	4	No	
Nitrite	1 ppm	1 ppm	No Detect	No Detect	4	No	
Selenium	50 ppb	50 ppb	No Detect	No Detect	3*	No	•Leaching of natural mineral deposits
Sulfate	250 ppm	NA	5.6 ppm	5.6 ppm	1*	No	•Leaching of natural mineral deposits
Thallium, Tot.	2.0 ppb	0.5 ppb	No Detect	No Detect	3*	No	•Leaching of natural mineral deposits •Electronics, glass, drug factories

Volatile Organic Compounds – Tested every six years (2022)

Substance	Upper Limit (MCL)	Range of Test Results		Total Samples	Violation	Typical Sources
		Low	High			
Benzene	5.0 ppb	No Detect	No Detect	4*	No	•Industrial & commercial processes
ChloroBenzene	100 ppb	No Detect	No Detect	4*	No	•Industrial & commercial processes
EthylBenzene	700 ppb	No Detect	No Detect	4*	No	•Industrial & commercial processes
O-DichloroBenzene	600 ppb	No Detect	No Detect	4*	No	•Industrial & commercial processes
P-DichloroBenzene	75 ppb	No Detect	No Detect	4*	No	•Industrial & commercial processes
1,2,4-TrichloroBenzene	70 ppb	No Detect	No Detect	4*	No	•Industrial & commercial processes
Carbon TetraChloride	5.0 ppb	No Detect	No Detect	4*	No	•Industrial & commercial processes
Vinyl Chloride	2.0 ppb	No Detect	No Detect	4*	No	•Industrial & commercial processes
1,2-DichloroEthane	5.0 ppb	No Detect	No Detect	4*	No	•Industrial & commercial processes
1,1,1-TrichloroEthane	200 ppb	No Detect	No Detect	4*	No	•Industrial & commercial processes
1,1,2-TrichloroEthane	5.0 ppb	No Detect	No Detect	4*	No	•Industrial & commercial processes
Trans-1,2-DichloroEthylene	100 ppb	No Detect	No Detect	4*	No	•Industrial & commercial processes
CIS-1,2-DichloroEthylene	70 ppb	No Detect	No Detect	4*	No	•Industrial & commercial processes
1,1-DichloroEthylene	7.0 ppb	No Detect	No Detect	4*	No	•Industrial & commercial processes
TetrachloroEthylene	5.0 ppb	No Detect	No Detect	4*	No	•Industrial & commercial processes
TrichloroEthylene	5.0 ppb	No Detect	No Detect	4*	No	•Industrial & commercial processes
DichloroMethane	5.0 ppb	No Detect	No Detect	4*	No	•Industrial & commercial processes
1,2-DichloroPropane	5.0 ppb	No Detect	No Detect	4*	No	•Industrial & commercial processes
Styrene	100 ppb	No Detect	No Detect	4*	No	•Industrial & commercial processes
Toluene	1.0 ppm	No Detect	No Detect	4*	No	•Industrial & commercial processes
Xylenes, Total	10 ppm	No Detect	No Detect	4*	No	•Industrial & commercial processes

Water Treatment & By-Products – Produced by mandatory chemical treatment

Substance	Upper Limit (MCL)	Threshold (MCLG)	Range of Test Results		Total Samples	Violation	Typical Sources
			Low	High			
Chlorine	4.0 ppm MRDL	N/A	1.66 ppm Highest Quarterly RAA 2.20 ppm	3.14 ppm	120	No	•Water additive used for disinfection
Fluoride	4.0 ppm	N/A	No Detect	No Detect	3*	No	•Leaching of natural mineral deposits
Haloacetic Acids	60 ppb	N/A	2.72 ppb	2.72 ppb	2	No	•By-products of drinking water chlorination (HAA5)
Trihalomethanes	80 ppb	N/A	No Detect	No Detect	2	No	•By-products of drinking water chlorination (TTHM)

Unregulated Contaminants – Monitored by EPA to determine if future regulations are warranted

Bromine Haloacetic Acids	NA	NA	0.89 ppb	1.03 ppb	4*	No	•By-products of drinking water chlorination (HAA6Br)
Haloacetic Acids, Tot.	NA	NA	1.50 ppb	1.81 ppb	4*	No	•By-products of drinking water chlorination (HAA5 + HAA6Br)
Calcium	NA	NA	12.1 ppm	12.1 ppm	1*	No	•Leaching of natural mineral deposits
Magnesium	NA	NA	1.8 ppm	1.8 ppm	1*	No	•Leaching of natural mineral deposits
Potassium	NA	NA	5.4 ppm	5.4 ppm	1*	No	•Leaching of natural mineral deposits
Sodium	NA	NA	11.0 ppm	19.6 ppm	4*	No	•Leaching of natural mineral deposits

- Parts per million (ppm) or milligrams per liter (mg/L) = one drop in 13 gallons
- Parts per billion (ppb) or micrograms per liter (ug/L) = one drop in 13,000 gallons
- AL = Action Level: the level of a contaminant which triggers mandatory treatment or other actions by the water system
- MCL = Maximum Contaminant Level: the highest level of a contaminant that is allowed in drinking water
- MCLG = Maximum Contaminant Level Goal: the highest level of a contaminant in drinking water with no known health risk
- RAA = Running Annual Average
- MRDL = Maximum Residual Disinfectant Level (active chlorine)
- pCi/L = Picocuries of Radioactivity per Liter

***Most recent sample was before 2023**

Violations: NONE **Exceedances**: NONE **Variances**: NONE **Deficiencies**: NONE **Exemptions**: NONE

Fluoride: NLWA no longer adds fluoride to your drinking water. If you believe you need fluoride supplements for your continued oral health, please contact your local dentist or healthcare provider for further information.

Lead: 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 customer service lines and home plumbing. North Lauderdale Water Association has no lead in our plants or pipes, but we have no control of the materials used in customer plumbing components. Those with lead or copper in their pipes can minimize the potential for heavy metal exposure by running a 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 request 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 (1-800-426-4791) or at www.epa.gov/safewater/lead. The Public Health Laboratory of the Mississippi State Department of Health offers lead and other contaminant testing. Please contact 601-576-7582 to request the state lab to test your water.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those 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 national Safe Drinking Water Hotline (1-800-426-4791).

If you have any questions about this report or concerning your NLWA water quality, please contact the Senior Waterworks Operator, Darin Billheimer, at 601-681-6157, review the documents posted on our web page at nlwa.ms, join our Facebook page at www.facebook.com/northlauderdalewater, or attend any of our regularly scheduled board meetings on the second Thursday of each month at the NLWA main office located at 9709 Mount Carmel Road, Bailey MS 39320.

Sincerely,
Todd “Ike” Kiefer
President