2022 Consumer Confidence Report for Public Water System CITY OF DETROIT

For more information regarding this report contact:

CITY OF DETROIT provides surface water and ground water LAKE CROOK located in LAMAR COUNTY.	from PAT MAYSE LAKE,	Name <u>CURTIS ARRASMITH</u>	
		Phone 903-674-4573	
		Este reporte incluye información importante sobre el agu llamar al telefono (903)674-4573.	a para tomar. Para asistencia en español, favor de
Definitions and Abbreviations			
Definitions and Abbreviations	The following tables contain scientific terms and mea	asures, some of which may require explanation.	
Action Level:	The concentration of a contaminant which, if exceed	ed, triggers treatment or other requirements which a water	system must follow.
Avg:	Regulatory compliance with some MCLs are based or	n running annual average of monthly samples.	
Level 1 Assessment:	A Level 1 assessment is a study of the water system water system.	to identify potential problems and determine (if possible) wh	ny total coliform bacteria have been found in our
Level 2 Assessment:	A Level 2 assessment is a very detailed study of the vand/or why total coliform bacteria have been found	water system to identify potential problems and determine (in our water system on multiple occasions.	if possible) why an E. coli MCL violation has occurred
Maximum Contaminant Level or MCL:	The highest level of a contaminant that is allowed in	drinking water. MCLs are set as close to the MCLGs as feasib	le using the best available treatment technology.
Maximum Contaminant Level Goal or MCLG:	The level of a contaminant in drinking water below w	rhich there is no known or expected risk to health. MCLGs all	low for a margin of safety.
Maximum residual disinfectant level or MRDL:	The highest level of a disinfectant allowed in drinking contaminants.	water. There is convincing evidence that addition of a disini	fectant is necessary for control of microbial
Maximum residual disinfectant level goal or MRDLG:	The level of a drinking water disinfectant below whic control microbial contaminants.	h there is no known or expected risk to health. MRDLGs do r	not reflect the benefits of the use of disinfectants to
MFL	million fibers per liter (a measure of asbestos)		
mrem:	millirems per year (a measure of radiation absorbed	by the body)	
na:	not applicable.		
NTU	nephelometric turbidity units (a measure of turbidity)	
pCi/L	picocuries per liter (a measure of radioactivity)		

This is your water quality report for January 1 to December 31, 2022

Definitions and Abbreviations

ppb: micrograms per liter or parts per billion

ppm: milligrams per liter or parts per million

ppq parts per quadrillion, or picograms per liter (pg/L)
ppt parts per trillion, or nanograms per liter (ng/L)

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

Information about your Drinking Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

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 poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPAs Safe Drinking Water Hotline at (800) 426-4791.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium 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. We are responsible for providing high quality drinking water, but we 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.

Information about Source Water

CITY OF DETROIT purchases water from LAMAR COUNTY WATER SUPPLY DISTRICT. LAMAR COUNTY WATER SUPPLY DISTRICT provides purchase surface water from PAT MAYSE LAKE, LAKE CROOK located in LAMRA COUNTY.

Data below from LAMAR COUNTY WATER SUPPLY DISTRICT PWS 1390015

Regulated Contaminants

Constituer	it Level Detec	ted MCL	MCLG	Possible Source of Substance				
Fluoride (ppm	0.567 mg/l	4.0	4.0	Water tre	Water treatment additive to promote strong teeth; erosion of			
				natural	deposits.			
Nitrate (ppm)	0.167 mg/L	10	10	Runoff from fertilizer; leaching from septic tanks; erosion o natural deposits.				
Barium (ppm	0.041 mg/l	. 2	2	Erosion o	f natural de	posits; water from drilling or metal refining.		
Atrazine	0.400 ug/L	3	3	Erosion o	f natural de	posits; orchard runoff; glass/electronic wastes.		
		Lowes	% of					
Constituent	Measurement	Monthly .	Samples	MCL	MCLG	Possible Source		
		Meeting	Limits					
Turbidity	Highest 0.31 NTU	96.8	3%	0.3*	N/A	Soil runoff in source water.		
*Turbidity MCL	is exceeded if more ti	nan 5% of all	amples tal	en in a sing	gle month an	e greater than 0.3 NTU. The treatment technique		
must not excee	ed 1 NTU at any tim	ie.						

Chloroform	44.3 ug/L	<micrograms liter=""></micrograms>
Bromodichloromethane	14.7 ug/L	<micrograms liter=""></micrograms>
Dibromochloromethane	2.98 ug/L	<micrograms liter=""></micrograms>

Reson for monitoring: Unregulated contaminant monitoring are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants and whether future regulations is warranted. For additional information and data visit http://www.epa.gov/safewater/ucmr/ucmr2/index.html, or call the Safe Drinking Water Hotline at (800) 426-4791.

Unregulated Contaminants Monitored at the Treatment Plant

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200					_	

	Highest Monthly Number	of	•	
Constituent	Positive Samples	MCL	MCLG	Possible Source
Total Coliform	3	>5%/Month*	0	Human and animal fecal wastes; naturally
				present in the environment.

*LCWS typically submits 25 samples per month for Coliform testing. An MCL violation occurs when two (2) or more samples are Coliform positive in a single month or more than 5% of samples if 40 or more samples are collected in a single month.

Constituent	Average	Minimum	Maximum	MCL	MCLG	Source
Chloramine (ppm)	2.2	0.54	3.94	4.0	<4.0	Disinfectant used to control microbes.
Chloramine residuals are	collected in t	he distribution sys	tem daily.			

Constituent	Average of All Quarterly Samples	Range of Detected Levels	MCL	MCLG	Possible Source
Total Trihalomethanes (ppb)	50.65	42.2 to 69.3	80*	0	Byproduct of drinking water chlorination.
*MCL of 80 ppb is violat				7	,
Total		81			Byproduct of drinking water
Haloacetic Acids (ppb)	30.68	17.3 to 47.8	60°	•	chlorination.
OMCL of 60 ppb is viola	ted when the aver	age of four (4) consecu	utive qua	rterly samples	exceeds 60.

Regulated at the Tap

	90th Percentile		Number of Sites	
	of Sampling	Action	Exceeding Action	Possible Source
Constituent	Event	Level	Level	
Lead (ppb)	0.005 (2020 data)	15	0	Corrosion of household plumbing; erosion of natural deposits.
Copper (ppm)	0.571 (2020 data)	1.3	0	Corrosion of household plumbing; erosion of natural deposits; leaching from wood preservatives.

LCWS is on reduced monitoring for Lead and Copper due to historically low concentrations. Monitoring is performed every three years. 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. Our water supply is responsible for providing high quality drividing water, but cannot control the variety of materials used in phonbing 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 drivking or cooking. If you are concerned about lead in your water, you may have your water tested for a fee. 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.

Non-Regulated and Secondary Constituents

Chloride	10.3	mg/L	<milligrams liter<="" th=""></milligrams>
Sulfate	48.4	mg/L	milligrams/Liter
Conductivity	225		micromhos/centimeter
Total Dissolved Solids	138	mg/L	<milligrams liter<="" td=""></milligrams>
Sodium	17.3	mg/L	<milligrams liter<="" td=""></milligrams>
Total Alkalinity	39.5	mg/L	<milligrams liter<="" td=""></milligrams>
Hardness	59.3	mg/L	<milligrams liter<="" td=""></milligrams>
Calcium	20.4	mg/L	<milligrams liter<="" td=""></milligrams>
Aluminum	0.054	mg/L	<milligrams liter<="" td=""></milligrams>
Magnesium	2.04	mg/L	<milligrams liter<="" td=""></milligrams>
Potassium	3.11	mg/L	<milligrams liter<="" td=""></milligrams>

TCEQ completed an assessment of your source water, and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system is based on this susceptibility and previous sample data. Any detections of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system contact CURTIS ARRASMITH 903-674-4573.

Coliform Bacteria

06/27/2023

Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
0	1 positive monthly sample.	2		0	N	Naturally present in the environment.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination

Copper	09/01/2021	1.3	1.3	0.35	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	09/01/2021	0	15	2.5	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

2022 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2022	35	22.7 - 50	No goal for the total	60	ppb	N	By-product of drinking water disinfection.

^{*}The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year

Total Trihalomethanes (TTHM)	2022	58	42.8 - 66.4	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

^{*}The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Nitrate [measured as Nitrogen]	2022	0.163	0.163 - 0.163	10	10	ppm		Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Disinfectant Residual

A blank disinfectant residual table has been added to the CCR template, you will need to add data to the fields. Your data can be taken off the Disinfectant Level Quarterly Operating Reports (DLQOR).

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Total Chlorine	2022	1.72	1.10 – 2.20	4	4	Mg/L	N	Water additive used to control microbes.