## City of Detroit PWS 1940003

## 2020 Consumer Confidence Report for Public Water System CITY OF DETROIT

This is your water quality report for January 1 to December 31, 2020

CITY OF DETROIT provides surface water and ground water from **PAT MAYSE LAKE**, LAKE CROOK located in LAMAR COUNTY.

For more information regarding this report contact:

Name RICHARD SHIPP

Phone \_\_\_\_\_903-674-4573\_\_\_\_\_

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (<u>903) 674-4573</u>.

### **Definitions and Abbreviations**

Definitions and Abbreviations	The following tables contain scientific terms and measures, some of which may require explanation.
Action Level:	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Avg:	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
Level 1 Assessment:	A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
Level 2 Assessment:	A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
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 feasible using the best available treatment technology.
Maximum Contaminant Level Goal or 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.
Maximum residual disinfectant level or 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.
Maximum residual disinfectant level goal or 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.
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)

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### **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 **LAMAR COUNTY**.

# **\*\*DATA BELOW FROM LAMAR COUNTY WATER SUPPLY DISTRICT\*\***

	R	egulated in the Dist	tribution S	ystem				Reg	ulated in the Dis	stributio	n System	
	Highest Monthly Num	ber of					Highest Mo	nthly Numbe	er of			
Constituent	Positive Sample:	s MCL	МС	LG	Possible Source	Constituent	Posit	ive Samples	MCL	Λ	ACLG	Possible Source
Total Coliform	0	>5%/Montl	h*		uman and animal fecal wastes; naturally resent in the environment.	Total Coliform		0	>5%/Mon	th*	0	Human and animal fecal wastes; naturally present in the environment.
** *	5 samples per month for Co e than 5% of samples if 40			curs when	two (2) or more samples are Coliform positive	*LCWS typically submits 2 in a single month or more						en two (2) or more samples are Coliform positive
Constituent	Average Minimum	Maximum	MCL I	ACLG	Source	Constituent	Average N	Ainimum	Maximum	MCL	MCLG	Source
Chloramine (ppm)	2.76 0.60	3.98	4.0	<4.0	Disinfectant used to control microbes.	Chloramine (ppm)	2.76	0.60	3.98	4.0	<4.0	Disinfectant used to control microbes.
Chloramine residuals are c	ollected in the distribution s	ystem daily.				Chloramine residuals are o	ollected in the d	listribution syst	tem daily.			
	Average of	Range of					Average	e of	Range of			
Constituent	All Quarterly Samples	Detected Levels	MCL .	MCLG	Possible Source	Constituent	All Quart Samp	1	Detected Levels	MCL	MCLC	G Possible Source
Total	Sumples				Byproduct of drinking water	Total	Jump	16.5				Byproduct of drinking water
Trihalomethanes (ppl	o) 56	44.1 to 75.8	80*	0	chlorination.	Trihalomethanes (ppb	) 56		44.1 to 75.8	80*	0	chlorination.
*MCL of 80 ppb is vio	lated when the average	of four (4) consecu	tive quart	erly samp	bles exceeds 80.	*MCL of 80 ppb is viol	ated when t	he average o	f four (4) consec	utive qu	arterly sa	mples exceeds 80.
Total	1998 - The State of S			8	Byproduct of drinking water	Total		<i></i>				Byproduct of drinking water
Haloacetic Acids (ppl	) 39	28.1 to 57.3	60*	0	chlorination.	Haloacetic Acids (ppb	) 39		28.1 to 57.3	60*	0	chlorination.
*MCL of 60 ppb is vio	lated when the average	of four (4) consecu	itive quart	erly samp	bles exceeds 60.	*MCL of 60 ppb is vio	ated when t	he average o	f four (4) consec	utive qu	arterly sa	mples exceeds 60.

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			Regulated at th	ie 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)	0.18 (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 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 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	8	mg/L	<milligrams liter<="" th=""></milligrams>
Sulfate	40	mg/L	<milligrams liter<="" td=""></milligrams>
Conductivity	202		micromhos/centimeter
Total Dissolved Solids	119	mg/L	<milligrams liter<="" td=""></milligrams>
Sodium	16.5	mg/1.	<milligrams liter<="" td=""></milligrams>
Total Alkalinity	37.8	mg/1_	<milligrams liter<="" td=""></milligrams>
Hardness	56.7	mg/1.	<milligrams liter<="" td=""></milligrams>
Calcium	19.4	mg/L	<milligrams liter<="" td=""></milligrams>
Aluminum	0.045	mg/L	<milligrams liter<="" td=""></milligrams>
Magnesium	1.98	mg/L	<milligrams liter<="" td=""></milligrams>
Potassium	3.12	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 **Richard Shipp 903-674-4573** 

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	09/12/2018	1.3	1.3	0.48	0	ppm	Ν	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems
Lead	09/12/2018	0	15	1.9	0	ррb	Ν	Corrosion of household plumbing systems; Erosion of natural deposits.

# 2020 Water Quality Test Results

Haloacetic Acids (HAA5) 2020 47 26 - 64.5 No goal for the total 60 ppb N By-product of drinking water disinfection.	Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
	····								
	Haloacetic Acids (HAA5)	2020	47	26 - 64.5	0	60	ррb	N	By-product of drinking water disinfection.

Total Trihalomethanes (TTHN	1) 2020	75	48.3 - 83.5	No goal for the total	80	ppb	Ν	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]	2020	0.27	0.27 - 0.27	10	10	ppm	Ν	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
Chloramine	2020	1.6	0.5 - 2.8	4	4	ppm	Ν	Water additive used to control microbes.

### Violations

Chlorine			
Some people who use water containing chlorine w experience stomach discomfort.	vell in excess of the MRD	L could experience irritat	ting effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could
Violation Type	Violation Begin	Violation End	Violation Explanation
Disinfectant Level Quarterly Operating Report (DLQOR).	07/01/2020	09/30/2020	We failed to file the quarterly report which notes our tests of our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated. The monthly reports during this time indicated that all levels were within tolerance.