2021 Annual Drinking Water Quality Report

Martindale Water Supply Corporation ● Phone: 512-357-6951

We are pleased to present our annual Drinking Water Quality Report for the period ending December 31, 2021. This report is designed to inform you about the quality water and services we provide to you every day. We are excited to be delivering this annual report to you.

Our Drinking Water Meets or Exceeds All Federal (EPA) Drinking Water Requirements

This report is a summary of the quality of the water we provide our customers. The analysis was made using the data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented in these pages. We hope this information helps you become more knowledgeable about what's in your drinking water.

Information on Sources of 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. Contaminants that may be present in source water before treatment include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and
- 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
- 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.

Martindale WSC purchases water from CRWA, the Hays/Caldwell WTP (Water Treatment Plant). This WTP provides purchased surface water from the San Marcos River located in Caldwell County and Guadalupe River water from Guadalupe County via a pipeline. The Martindale WSC also utilizes local ground water provided by three wells located in Caldwell County.

Information about Source Water Assessments

The TCEQ completed an assessment of your source water and results indicate that some of your sources are susceptible to certain contaminants. The sampling requirements for your water system are based on this susceptibility and previous sample data. Any detections of these contaminants may be found in this Consumer Confidence Report. For more information about your sources of water, please contact Steve Fonville or refer to the Source Water Assessment Viewer available at the following URL: http://gis3.tceq.state.tx.us/swav/Controller/index.jsp?wtrsrc=. Further details about sources and sourcewater assessments are available in Drinking Water Watch at the following URL: http://dww.tceq.texas.qov/DWW/. See page two for sample site locations.

ALL Drinking Water May Contain Contaminants

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 EPA's Safe Drinking Water Hotline (1-800-426-4791).

Information about Secondary Constituents

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.

SPECIAL NOTICE

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 particuarly at risk from infections. You should seek advice about drinking water from your physician or health care provider. Additional guidelines on appropriate means to lessen the risk of infections by Cryptosporidium are available from the Safe Drinking Water Hotline (1-800-426-4791).

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 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 two 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 Water Hotline or at http://www.epa.qov/safewater/lead.

We Welcome Your Comments

If you have any questions about this report or any other issue concerning your water utility, please contact us at 512-357-6951.

Public Participation Opportunities

DATE: 2nd Thursday of each month TIME: 6:30 p.m.

LOCATION: 206 Main St./Water Supply Office

PHONE: 512-357-6951 WEB: www.martindalewater.org To learn about future public meetings (concerning your drinking water), or to request to schedule one, please call us.

Source Water Assessment Sample Sites

2 - Main Street / Johnson Street (GUI) GU Operational Martindale 3 - Main Street / Johnson Street (GUI) GU Operational Martindale

SW from CRWA Hays Caldwell WTP CC from TX0280024 CRWA SW Operational 135 Martindale Road

En Español

Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre éste informe en español, favor de llamar al tel. 512-357-6951-para hablar con una persona bilingue en español.

Water Quality Test Results

Definitions: The following tables contain scientific terms and measures, some of which may require explanation.

Avg: Regulatory compliance with some MCLs are based on running annual avarage of monthly samples.

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.

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.

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.

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 andor why total coliform bacteria have been found in our water system on multiple occasions.

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.

Maximum residual disinfectant level goal (MRDLG): The level of 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)

na: not applicable

mrem: millirems per year (a measure of radiation absorbed by the body)

NTU: nephelometric turbidity units (a measure of turbidity)

pCi/L: picocuries per liter (a measure of radioactivity)

ppb: micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water

ppm: milligrams per liter or part per million - or one ounce in 7,350 gallons of water

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

ppt: parts per trillion, or nanograms per liter (ng/L)
ppg: parts per quadrillion, or picograms per liter (pq/L)

LEAD AND COPPER

Definitions:

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety. Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Date Sampled	Contaminant	MCLG	The 90th Percentile	Number of Sites Over Action Level	Action Level	Unit of measure	Violation	Likely source of contaminant
10/30/2020	Lead	0	2.0	0	15	ppb	N	Corrosion of household plumbing systems; erosion of natural deposits.
10/30/2020	Copper	1.3	0.221	0	1.3	ppm	N	Erosion of natural deposits; leaching from wood preservatives;

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. This 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 thirty seconds to two 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.eps.gov/safewater/lead.

MAXIMUM RESIDUAL DISINFECTANT LOAD

Disinfectant Residual	Collection Date	Average Level Detected	Range of Levels Detected	MRDL	MRDLG	Units	Violation	Source in Drinking Water
Total Chlorine	2021	1.5	0.50-2.3	4.0	4.0	ppm	N	Water additive to control microbes.

REGULATED CONTAMINANTS

Disinfectants and Disinfectant By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2021	40	15.6-50	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2021	72	36.1-102	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 HAA5/TTHM sample results collected at a location over a year.

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2021	0.0454	0.0454-0.0454	2	2	ppm	N	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Fluoride	2021	0.2	0.21-0.21	4	4.0	ppm	N	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum.
Nitrate (measured as Nitrogen)	2021	3	1.49-3.19	10	10	ppm	N	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits.

DISINFECTANT RESIDUAL

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Units	Violation	Source in Drinking Water
Chlorine	2021	1.5	0.50-2.3	4.0	4.0	ppm	N	Water additive used to control microbes.

TURBIDITY

INFORMATION STATEMENT: Turbidity is a measure of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

	Limit (Treatment Technique)	Level Detected	Violation	Likely Source of Contamination
Highest Single Measurement	1 NTU	0.3 NTU	N	Soil runoff.
Lowest monthly % meeting limit	100%	0.3 NTU	N	Soil runoff.

COLIFORM BACTERIA

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

Also attached this this report are analysis reports by the Texas Department of State Health from water samples taken in 2021 within the Martindale WSC system covering metals, minerals, radioactive compounds, organic compounds, pesticides, and other contaminants. Please note that a "less than" (<) indicates a level below the detection limits of the lab instrument - the contaminant is non-detectable.

The employees of the Martindale Water Supply Corporation work to provide top quality water to every household. We ask that all our customers help us protect our water sources. Steven Formille

Steven Fonville, General Manager, Martindale Water Supply Corp.



PO BOX 149347 AUSTIN, TEXAS 78714-9347 1-888-963-7111 www.dshs.state.tx.us

LABORATORY SERVICES SECTION, MC-1947 1100 W. 49th St., Austin, Tx. 78756 (512)458-7587

*ALL METALS **Analysis Report**

Submitter Identification Number: 0280013

MARTINDALE WSC FORSSELL, JAMES PO BOX 175 MARTINDALE, TX 78655-0175

Date Reported: 04/06/2021

Report ID#: 20210406095418AF42611

Lab Sample ID#: AF42611

Water Source:

Date Collected: 02/04/2021 09:19

Sample Priority: NORMAL

Entry Point(s): EP001

Date Received: 02/05/2021

TCEQ ID#(s): 2115133

				Sample Cond. : Acceptable			
Analyte	Result	Unit	Method	Date/Time Analyzed	Analyst		
Acidification	Completed		EPA 200.2	02/05/2021	TH		
pH Check	Completed		EPA 200.2	02/08/2021	TH		
Turbidity Screen	Completed		SM 2130B	02/08/2021	TH		
Visible Particles	Completed			02/08/2021	TH		
Total Hardness as CaCO3 by Calculation	281	mg/L	SM 2340B	02/23/2021	TH		
Aluminum ¹	0.153	mg/L	EPA 200.8	04/01/2021	TH		
Antimony 1	< 0.0010	mg/L	EPA 200.8	03/10/2021	AS		
Arsenic ¹	< 0.0020	mg/L	EPA 200.8	03/10/2021	AS		
Barium ¹	0.0454	mg/L	EPA 200.8	03/10/2021	AS		
Beryllium ¹	< 0.00080	mg/L	EPA 200.8	03/10/2021	AS		
Cadmium ¹	< 0.0010	mg/L	EPA 200.8	03/10/2021	AS		
Calcium	85.5	mg/L	EPA 200.7	02/23/2021	TH		
Chromium ¹	< 0.0100	mg/L	EPA 200.8	03/10/2021	AS		
Copper ¹	0.0774	mg/L	EPA 200.8	04/01/2021	TH		
Iron 1	0.013	mg/L	EPA 200.7	02/23/2021	TH		
Lead ¹	< 0.0010	mg/L	EPA 200.8	03/10/2021	AS		
Magnesium ¹	16.3	mg/L	EPA 200.7	02/23/2021	TH		
Manganese 1	0.0031	mg/L	EPA 200.8	03/10/2021	AS		
Mercury ¹	< 0.00040	mg/L	EPA 245.1	02/23/2021	BF		
Nickel ¹	0.0020	mg/L	EPA 200.8	03/10/2021	AS		
Potassium ¹	1.99	mg/L	EPA 200.7	02/23/2021	TH		
Selenium ¹	< 0.0030	mg/L	EPA 200.8	03/10/2021	AS		
Silver 1	< 0.0100	mg/L	EPA 200.8	03/10/2021	AS		
Sodium ¹	17.7	mg/L	EPA 200.7	02/23/2021	TH		
Thallium ¹	< 0.00040	mg/L	EPA 200.8	03/10/2021	AS		
Zinc ¹	0.0171	mg/L	EPA 200.8	03/10/2021	AS		

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(1) meet all TNI (2009 Standard) requirements.

Authorized by Team Lead EBOYER on 04/05/2021



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LABORATORY SERVICES SECTION, MC-1947 1100 W. 49th St., Austin, Tx. 78756 (512)458-7587

*ALL MINERALS Analysis Report

Submitter Identification Number: 0280013

MARTINDALE WSC FORSSELL, JAMES PO BOX 175 MARTINDALE, TX 78655-0175

Date Reported: 02/25/2021

Report ID#: 20210225103314AF42584

Lab Sample ID#: AF42584

Water Source :

Entry Point(s): EP001

Date Collected: 02/04/2021 09:30

Sample Priority: NORMAL TCEQ ID#(s): 2117733

Date Received: 02/05/2021

				Sample Con	d.: Acceptable
Analyte	Result	Unit	Method	Date/Time Analyzed	Analyst
Field pH Result	7.6	рН			
Diluted Conductance @ 25.0 °C 1	662	µmho/cm	SM 2510 B	02/09/2021 11:04	TT
Phenolphthalein Alkalinity as CaCO3	<10	mg/L	SM 2320B	02/05/2021 12:12	NP
Total Alkalinity as CaCO3	233	mg/L	SM 2320B	02/05/2021 12:12	NP
Bicarbonate	284	mg/L	SM 2320B	02/05/2021 12:12	NP
Carbonate	<10	mg/L	SM 2320B	02/05/2021 12:12	NP
Fluoride ¹	0.21	mg/L	EPA 300.0	02/05/2021 13:25	NP
Chloride ¹	32	mg/L	EPA 300.0	02/05/2021 13:25	NP
Sulfate 1	28	mg/L	EPA 300.0	02/05/2021 13:25	NP
Total Dissolved Solids 1	328	mg/L	SM 2540C	02/05/2021 15:10	TT
Nitrate as N ¹	2.79	mg/L	EPA 353.2	02/05/2021 13:03	AD

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(1) meet all TNI (2009 Standard) requirements.

Authorized by Team Lead HNGO on 02/24/2021



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LABORATORY SERVICES SECTION, MC-1947 1100 W. 49th St., Austin, Tx. 78756 (512)458-7587

*RAD-GRAB **Analysis Report**

Submitter Identification Number: 0280013

MARTINDALE WSC FORSSELL, JAMES PO BOX 175 MARTINDALE, TX 78655-0175

Date Reported: 03/30/2021

Report ID#: 20210330093912AF42633

Lab Sample ID#: AF42633 Sample Priority: NORMAL Water Source:

Date Collected: 02/04/2021 09:31

TCEQ ID#(s): 2110928

Entry Point(s): EP001

Date Received: 02/05/2021

							Sample Cond. : Acce	ptable
Analyte	Result	Uncertainty k=2	MDA	Unit	Yield	Method	Date Analyzed	Analyst
Gross Alpha 1	<3.0		1.7	pCi/L		EPA 900.0	03/03/2021	CW
Gross Beta ¹	<4.0		3.5	pCi/L		EPA 900.0	03/03/2021	CW
Radium-228 ¹	<1.0		0.52	pCi/L	0.712	SM 7500-Ra D	03/16/2021	DH
Comments:								

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(1) meet all TNI (2009 Standard) requirements.

Authorized by Team Lead SGILLARD on 03/29/2021



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*SINGLE MINERAL **Analysis Report**

Submitter Identification Number: 0280013

MARTINDALE WSC FORSSELL, JAMES PO BOX 175 MARTINDALE, TX 78655-0175

Date Reported: 02/25/2021

Report ID#: 20210225103314AF42599

Lab Sample ID#: AF42599

Water Source:

Date Collected: 02/04/2021 09:30

Sample Priority: NORMAL

Entry Point(s): EP001

TCEQ ID#(s): 2127073

Date Received: 02/05/2021

The same of the sa	Contraction of the Contraction o	WHITE CO.			Sample Con	d.: Acceptable
Analyte		Result	Unit	Method	Date/Time Analyzed	Analyst
Total Cyanide 1		< 0.01	mg/L	10-204-00-1-X	02/11/2021 11:32	MD

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(1) meet all TNI (2009 Standard) requirements.

Authorized by Team Lead HNGO on 02/24/2021



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LABORATORY SERVICES SECTION, MC-1947 1100 W. 49th St., Austin, Tx. 78756 (512)458-7587

Volatile Organic Compounds by GC/MS **Analysis Report**

Submitter Identification Number: 0280013

MARTINDALE WSC FORSSELL, JAMES PO BOX 175 MARTINDALE, TX 78655-0175

Date Reported: 03/23/2021

Report ID#: 20210323093228AF45103

Lab Sample ID#: AF45103

Water Source:

Date Collected: 03/03/2021 11:10 Date Received: 03/04/2021

Conc. Units: µg/L

Sample Priority: NORMAL

Bromomethane

Chloroethane

2-Chlorotoluene

4-Chlorotoluene

Bromobenzene

1,2,3-Trichloropropane

2,2-Dichloropropane

cis-1,3-Dichloropropene

trans-1,3-Dichloropropene

1,1,1,2-Tetrachloroethane

Entry Point(s): EP001

Date Analyzed: 03/04/2021

Method: EPA 524.2 Analyst: JL

TCEQ ID#(s): 2195194

Sample Cond.: Acceptable Result Qualifier Result Qualifier Regulated Cmpds.[40 CFR 141.61(a)] Monitored Cmpds.[40 CFR 141.40(j)] Benzene 1 <0.5 1,2,4-Trimethylbenzene <1.0 <0.5 1,2,3-Trichlorobenzene <1.0 Carbon tetrachloride 1 <1.0 <0.5 n-Propylbenzene Monochlorobenzene 1

MONOGRADINE	150.00						
o-Dichlorobenzene ¹	<0.5		n-Butylbenzene	<1.0			
para-Dichlorobenzene 1	<0.5		Naphthalene	<1.0			
1,2-Dichloroethane 1	<0.5		Hexachlorobutadiene	<1.0			
1,1-Dichloroethylene 1	<0.5		1,3,5-Trimethylbenzene	<1.0			
cis-1,2-Dichloroethylene 1	<0.5		4-Isopropyltoluene	<1.0			
trans-1,2-Dichloroethylene 1	<0.5		Isopropylbenzene	<1.0			
1,2-Dichloropropane 1	<0.5		t-Butylbenzene	<1.0			
Dichloromethane 1	<0.5		s-Butylbenzene	<1.0			
Ethylbenzene ¹	<0.5		Trichlorofluoromethane	<2.0			
Styrene ¹	<0.5		Dichlorodifluoromethane	<2.0			
Tetrachloroethylene 1	<0.5		Bromochloromethane	<1.0			
Toluene ¹	<0.5		Other Compounds	Result	Qualifier		
1,2,4-Trichlorobenzene ¹	<0.5		A	-15			
1,1,1-Trichloroethane 1	<0.5		Acetone	<10	GS		
1,1,2-Trichloroethane 1	<0.5		Acrylonitrile	<10			
Trichloroethylene 1	<0.5		2-Butanone (MEK)	<10			
Vinyl chloride ¹	<0.5		Carbon disulfide	<1.0			
Xylenes (total) 1	<0.5		Ethyl methacrylate	<1.0			
Monitored Cmpds.[40 CFR 141.40(e)]	Result	Qualifier	2-Hexanone	<1.0			
Chloroform	40		lodomethane	<5.0			
Bromodichloromethane	12 21		Methyl methacrylate	<1.0 <2.0			
Dibromochloromethane	21		4-Methyl-2-pentanone (MIBK)	<0.5			
Bromoform			Methyl-t-butyl ether (MTBE)				
Dibromomethane	8.1		Tetrahydrofuran	<5.0			
	<1.0		Comments:				
1,3-Dichlorobenzene	<1.0		N - See sample comments.				
1,1-Dichloropropene	<1.0		X - The Minimum Reporting Limit (MRL) verification check did not meet the method acceptance limits.				
1,1-Dichloroethane	<1.0						
1,1,2,2-Tetrachloroethane	<1.0		G - CCV/LFB recovery was below method acceptance limits.				
1,3-Dichloropropane	<1.0		S - LFB/LFBD RPD exceeded the method	acceptance limit.			
Chloromethane	<2.0		EPA method 524.2 Bromomethane 0	CCV/LFB recove	rv was		

<2.0

<1.0

<1.0

<2.0

<1.0

<1.0

<1.0

<1.0

<1.0

<1.0

NX

EPA method 524.2 --- Bromomethane CCV/LFB recovery was above method acceptance limits. This target analyte was not detected in the sample. The test results on this report relate only to the sample identified on this report. The test results for analytes noted(1) meet all TNI (2009 Standard) requirements.

Authorized by Team Lead CJONES on 03/20/2021



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LABORATORY SERVICES SECTION, MC-1947 1100 W. 49th St., Austin, Tx. 78756 (512)458-7587

Semivolatiles Organic Analysis Report

Submitter Identification Number: 0280013

MARTINDALE WSC FORSSELL, JAMES PO BOX 175 MARTINDALE, TX 78655-0175

Date Reported: 04/06/2021

Report ID#: 20210406095418AF45206

Lab Sample ID#: AF45206 Sample Priority: NORMAL

Diethylphthalate

Water Source:

Entry Point(s): EP001

Date Collected: 03/03/2021 11:10 Date Received: 03/04/2021 Conc. Units: µg/L Method: EPA 525.2

TCEQ ID#(s): 2195105

Date Analyzed: 03/10/2021 Extraction Date: 03/09/2021 Analyst : JO Sample Cond. : Acceptable

10 10 10 10 10 10 10 10 10 10 10 10 10 1		
Regulated Compounds	Result	Qualifier
Alachlor ¹	<0.2	
Atrazine ¹	<0.1	
Benzo[a]pyrene ¹	<0.02	
alpha-Chlordane	<0.2	
gamma-Chlordane	<0.2	
trans-Nonachlor	<0.2	
Di(2-ethylhexyl) adipate ¹	<0.6	
Di(2-ethylhexyl) phthalate ¹	<0.6	
Heptachlor ¹	<0.04	
Hexachlorobenzene ¹	< 0.1	
Hexachlorocyclopentadiene 1	< 0.1	*
Lindane ¹	<0.02	
Methoxychlor ¹	<0.1	
Simazine ¹	<0.07	
Monitored Compounds	Result	Qualifier
Acenaphthene	<0.20	
Acenaphthylene	<0.20	
Aldrin	<0.20	
Anthracene	<0.20	L
Benzo(a)anthracene	<0.20	
Benzo[b]fluoranthene	<0.20	
Benzo[g,h,i]perylene	<0.20	
Benzo[k]fluoranthene	<0.20	
Bromacil	<0.20	
Butachlor	<0.20	
Butylbenzylphthalate	<2.0	
2-Chlorobiphenyl	<0.20	
Chrysene	<0.20	
Dibenz[a,h]anthracene	<0.20	
Di-n-butylphthalate	<2.0	
2,3-Dichlorobiphenyl	<0.20	
Dieldrin	<0.20	

Monitored Compounds continued	Result	Qualifier
Dimethylphthalate	<2.0	
Fluorene	<0.20	
2,2',3,3',4,4',6-Heptachlorobiphenyl	<0.50	
2,2',4,4',5,6'-Hexachlorobiphenyl	<0.20	
Indeno[1,2,3-cd]pyrene	<0.20	
Metolachlor	<0.20	
Metribuzin	<0.20	
Naphthalene	<0.20	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	<0.50	
2,2',3',4,6-Pentachlorobiphenyl	<0.20	
Phenanthrene	<0.20	
Propachlor	<0.20	
Pyrene	<0.20	
2,2',4,4'-Tetrachlorobiphenyl	<0.20	
2,4,5-Trichlorobiphenyl	<0.20	
Trifluralin	<0.20	
Comments:		
* This are the term to the first term to the second	-1	

^{* -} This analyte has known instability and/or method performance issues and quantitation should be considered approximate.

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(1) meet all TNI (2009 Standard) requirements.

Authorized by Team Lead AVINYARD on 04/05/2021

<2.0

L - The associated laboratory fortified blank spike (and/or its duplicate) recovery was below method acceptance limits.



PO BOX 149347 AUSTIN, TEXAS 78714-9347 1-888-963-7111 www.dshs.state.tx.us

LABORATORY SERVICES SECTION, MC-1947 1100 W. 49th St., Austin, Tx. 78756 (512)458-7587

Pesticides by Method 508.1 Analysis Report

Submitter Identification Number: 0280013

MARTINDALE WSC FORSSELL, JAMES PO BOX 175 MARTINDALE, TX 78655-0175

Date Reported: 04/06/2021

Report ID#: 20210406095418AF45206

Lab Sample ID#: AF45206

.06 Water Source :

Date Col

Date Collected: 03/03/2021 11:10

Conc. Units: ug/L

Sample Priority: NORMAL TCEQ ID#(s): 2195105

Entry Point(s): EP001

Date Received: 03/04/2021

Method: 508.1 Rev. 2.0

Date Analyzed: 03/11/2021

Analyst: JH

Sample Cond.: Acceptable

Regulated Compounds		Result	Qualifier
Chlordane 1	and the second second	<0.20	
Endrin ¹		< 0.01	
Heptachlor epoxide 1		<0.02	
Toxaphene 1		<1.0	
Comments:			

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(1) meet all TNI (2009 Standard) requirements.

Authorized by Team Lead AVINYARD on 04/05/2021



Hays Caldwell Water Treatment Plant 2021 Consumer Confidence Report PWS ID No. TX0280024

Canyon Regional Water Authority is pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

This report is intended to provide you with important information about your drinking water and efforts made by the water system to provide safe drinking water. This Annual Water Quality Report is for the period of <u>January 1 to December 31, 2021</u>.

Sources

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 Canyon Regional Water Authority (830) 609-0543.

Some people 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 you water has been sitting for several h ours, 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.

A Source Water Susceptibility Assessment for your drinking water source(s) is currently being updated by the Texas Commission on Environmental Quality. This information describes the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information contained in the assessment allows us to focus source water protection strategies.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL:

https://tceq.maps.arcgis.com/apps/webappviewer/index.html?id=217028ea4a01485f87db4d22aec72755

Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: https://dww2.tceq.texas.gov/DWW/.

Canyon Regional Water Authority Hays Caldwell Water Treatment Plant is Surface Water.

		Type of Water	Report Status	Location
SAN MARCOS RIVER	SAN MARCOS	SW	Operational	135 Martindale Rd. San Marcos, TX 78130
SW FROM GBRA WESTERN	I CANYON	SW	Operational	Lake Dunlap New Braunfels, TX

Water Quality Test Results

The following tables contain scientific terms and measures, some of which may require explanation.

Definitions:

Avg- Average; Regulatory compliance with some MCLs are based on running annual average of monthly samples.

Non Applicable (N/A)

Non-Detects (ND) – laboratory analysis indicates that the constituent is not present.

Parts per Million (Ppm) or Milligrams per liter (mg/L) – one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per Billion (Ppb) or Micrograms per liter – one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per Trillion (Ppt) or Nanograms per liter (nanograms/L) – one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (Ppq) or Picograms per liter (picograms/L) – one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

Picocuries per liter (pCi/L) – picocuries per liter is a measure of the radioactivity in water.

Millirems per year (mrem/yr) – measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) – million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) – nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Action Level – the concentration of a contaminant that if exceeded, triggers treatment or other requirements that a water system must follow.

Treatment Technique (TT) – A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

Maximum Contaminant Level – The "Maximum Allowed" (MCL) is 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 – The "Goal" (MCLG) is 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 Detection Limit 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 Detection Limit 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.

Table of Contaminants

Contaminant	Collec tion Date	Highest Level Detected		MCLG	MCL	Units	Violatio n Y/N	Likely Source of Contamination
Microbiologic	al Con	taminan	ts					
Total Coliform Bacteria	2021	Absent	N/A	0	MCL: (systems that collect 40 or more samples per month) 5% of monthly samples are positive. (Systems that collect <40 samples/mo nth - 1 positive monthly sample.	N/A	N	Naturally present in the environment
Fecal coliform and <i>E.coli</i>	2021	Absent	N/A	0	0	N/A	N	Human and animal fecal waste
TOC	2021	2.93	0 - 3.32	N/A	TT	Mg/L	N	Naturally present in the environment
Turbidity	2021	0.08	0 - 0.12	N/A	TT	NTU	N	Soil runoff, Bacteria, organic material, suspended particles
Radioactive C	ontam	inants		•	1		1	
Beta/photon emitters	2021	0	0 - 4	0	50	pCi/L	N	Decay of natural and man-made Deposits
Alpha emitters	2021	0	0 – 15	0	15	pCi/L	N	Erosion of natural deposits
Combined radium (- 226 & -228)	2021	0	0 – 5	0	5	pCi/L	N	Erosion of natural Deposits
Inorganic Con	ıtamin	ants						
Antimony	2021	0	0-6	6	6	Ppb	N	Discharge from petroleum refineries, fire retardants, ceramics, electronics, solder

Arsenic	2021	0	0 – 10	N/A	10	Ppb	N	Erosion of natural deposits; runoff from orchards;
								runoff from glass and electronics production wastes
Asbestos	2013	0	o – 7	7	7	MFL	N	Decay of asbestos cement water mains; erosion of natural deposits
Barium	2021	0.0426	0 - 2	2	2	Ppm	N	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Beryllium	2021	O	0 – 4	4	4	Ppb	N	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium	2021	O	0 – 5	5	5	Ppb	N	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Chromium	2021	0	0 – 100	100	100	Ppb	N	Discharge from steel and pulp mills; erosion of natural deposits
Copper	2021	0.118	0 – 1.3	1.3	AL=1.3 (EPA National Primary Drinking Water Regulations)	Ppm	N	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Cyanide	2021	O	0 – 200	200	200	Ppm	N	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride	2021	0.19	0-4	4	4	Ppm	N	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Lead	2021	O	O – 15	0	AL=15	Ppb	N	Corrosion of household plumbing systems, erosion of natural deposits
Mercury	2021	0	0 – 2	2	2	Ppb	N	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland

Nitrate (as Nitrogen)	2021	1.85	0 – 10	10	10	Ppm	N	Runoff from fertilizer use; leaching from
								septic tanks, sewage; erosion of natural deposits.
Nitrite (as Nitrogen)	2013	0	0 – 1	1	1	Ppm	N	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	2021	0	0 – 50	50	50	Ppm	N	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Thallium	2021	0	0.5 – 2	0.5	2	Ppb	N	Leaching from ore- processing sites; discharge from electronics, glass, and drug factories

*Lead and Copper Rule Testing
The 1994 Federal Lead & Copper Rule mandates a household testing program for these substances. According to the rule, 90% of samples from high-risk homes must have levels less than 0.015 milligrams per liter for lead and 1.3 milligrams per liter for copper.

Synthetic Organic Contaminants Including Pesticides and Herbicides

2, 4, -D	2019	0	0 - 70	70	70	Ppb	N	Runoff from herbicide used on row crops
2, 4, 5-TP(Silvex)	2019	0	0 – 50	50	50	Ppb	N	Residue of banned herbicide
Acrylonitrile	2021	0	0 – 10	0	TT	Ppb	N	Used in the manufacturing of plastic
Alachlor	2021	0	0 – 2	0	2	Ppb	N	Runoff from herbicide used on row crops
Atrazine	2021	0	0 – 3	3	3	Ppb	N	Runoff from herbicide used on row crops
Benzo(a)pyrene (PAH)	2021	0	0 – 200	0	200	Nanog- rams/L	N	Leaching from linings of water storage tanks and distribution lines
Carbofuran	2019	0	0 - 40	40	40	Ppb	N	Leaching of soil fumigant used on rice and alfalfa
Chlordane	2021	0	0 – 2	0	2	Ppb	N	Residue of banned termiticide
Dalapon	2021	0	0 - 200	200	200	Ppb	N	Runoff from herbicide used on rights of way
Di(2-ethylhexyl) adipate	2021	0	0 – 400	400	400	Ppb	N	Discharge from chemical factories
Di(2-ethylhexyl) phthalate	2021	0	0 – 6	0	6	Ppb	N	Discharge from rubber and chemical factories
1, 2-Dibromo-3- chloropropane	2019	0	0 – 200	0	200	Nanogr- ams/L	N	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
Dinoseb	2019	0	o – 7	7	7	Ppb	N	Runoff from herbicide used on

								soybeans and vegetables
Diquat	N/A	N/A	N/a	20	20	Ppb	N/A	Runoff from herbicide use
Dioxin [2,3,7,8-TCDD]	N/A	N/A	N/A	0	30	Picogr- ams/L	N/A	Emissions from waste incineration and other combustion; discharge from chemical factories
Endothall	N/A	N/A	N/A	100	100	Ppb	N/A	Runoff from herbicide use
Endrin	2021	0	0-2	2	2	Ppb	N	Residue of banned insecticide
Epichlorohydrin	N/A	N/A	N/A	0	TT	N/A	N/A	Discharge from industrial chemical factories; an impurity of some water treatment chemicals
Ethylene dibromide	2019	0	0 – 50	0	50	Nanogr- ams/L	N	Discharge from petroleum refineries
Glyphosate	N/A	N/A	N/A	700	700	Ppb	N/A	Runoff from herbicide use
Heptachlor	2021	0	0 – 400	0	400	Nanogr- ams/L	N	Residue of banned termiticide
Heptachlor epoxide	2021	0	0 – 200	0	200	Nanogr- ams/L	N	Breakdown of heptachlor
Hexachlorobenzene	2021	0	0 – 1	0	1	Ppb	N	Discharge from metal refineries and agricultural chemical factories
Hexachlorocycl- opentadiene	2021	0	0 – 50	50	50	Ppb	N	Discharge from chemical factories
Lindane	N/A	N/A	N/A	200	200	Nanogr- ams/L	N/A	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor	2021	0	0 – 40	40	40	Ppb	N	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock
Oxamyl [Vydate]	2019	0	0 – 200	200	200	Ppb	N	Runoff from landfills of waste chemicals
PCBs [Polychlorinated biphenyls]	N/A	N/A	N/A	0	500	Nanogr- ams/L	N/A	Runoff from landfills; discharge of waste chemicals
Pentachlorophenol	2019	0	0 – 1	0	1	Ppb	N	Discharge from wood pereserving factories
Picloram	2019	0	0 – 500	500	500	Ppb	N	Herbicide runoff
Simazine Toxaphene	2021	0	0-4	4	4	Ppb	N N	Herbicide runoff
толариене	2021	0	0 – 3	0	3	Ppb	IN	Runoff/leaching from insecticide used on cotton and cattle

Volatile Organ	ic Con	tamina	nts					
Benzene	2021	0	0-5	0	5	Ppb	N	Discharge from factories; leaching from gas storage tanks and landfills
Bromate	2021	0	0 - 10	0	10	Ppb	N	By-product of drinking water chlorination
Carbon tetrachloride	2021	0	0-5	0	5	Ppb	N	Discharge from chemical plants and other industrial activities
Chloramines	2021	0	0 – 4	MRDLG = 4	MRDL = 4	Ppm	N	Water additive used to control microbes
Chlorine	2021	2.5	0 – 4	MRDLG = 4	MRDL = 4	Ppm	N	Water additive used to control microbes
Chlorite	2021	.815	0.0 - 1.0	0.8	1.0	Ppm	N	By-product of drinking water chlorination
Chlorine Dioxide	2021	.02	0 - 800	MRDLG = 800	MRDL = 800	Ppb	N	Water additive used to control microbes
Chlorobenzene	2021	0	0 – 100	100	100	Ppb	N	Discharge from chemical and agricultural chemical factories
o-Dichlorobenzene	2021	0	0 – 600	600	600	Ppb	N	Discharge from industrial chemical factories
p-Dichlorobenzene	2021	0	o – 75	75	75	Ppb	N	Discharge from industrial chemical factories
1,2-Dichloroethane	2021	0	0-5	0	5	Ppb	N	Discharge from industrial chemical factories
1,1 – Dichloroethylene	2021	0	0-7	7	7	Ppb	N	Discharge from industrial chemical factories
Cis-1,2- Dichloroethylene	2021	0	0 – 70	70	70	Ppb	N	Discharge from industrial chemical factories
Trans – 1,2 - Dichloroethylene	2021	0	0 - 100	100	100	Ppb	N	Discharge from industrial chemical factories
Dichloromethane	2021	0	0-5	0	5	Ppb	N	Discharge from pharmaceutical and chemical factories
1,2-Dichloropropane	2021	0	0-5	0	5	Ppb	N	Discharge from industrial chemical factories
Ethylbenzene	2021	0	0 - 700	700	700	Ppb	N	Discharge from petroleum refineries
Haloacetic Acids (HAA)	2021	49.7	0 - 60	N/A	60	Ppb	N	By-product of disinfection
Styrene	2021	0	0 - 100	100	100	Ppb	N	Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene	2021	0	0-5	0	5	Ppb	N	Leaching from PVC pipes; discharge from factories and dry cleaners
1,2,4- Trichlorobenzene	2021	0	0 - 70	70	70	Ppb	N	Discharge from textile-finishing factories

1,1,1 – Trichloroethane	2021	0	0 – 200	200	200	Ppb	N	Discharge from metal degreasing sites and other factories
1,1,2 - Trichloroethane	2021	0	o – 5	3	5	Ppb	N	Discharge from industrial chemical factories
Trichloroethylene	2021	0	0-5	0	5	Ppb	N	Discharge from metal degreasing sites and other factories
TTHM [Total trihalomethanes]	2021	95.4	0 – 100	0	100/80	Ppb	N	By-product of drinking water chlorination
Toluene	2021	0	0 – 1	1	1	Ppm	N	Discharge from petroleum factories
Vinyl Chloride	2021	0	0 – 2	0	2	Ppb	N	Leaching from PVC piping; discharge from plastics factories
Xylenes	2021	0	0 – 10	10	10	Ppm	N	Discharge from petroleum factories; discharge from chemical factories

Health Effects

Maximum Contaminant Levels (MCL's) are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have drink 2 liters of water every day at the MCL level for a lifetime to have one-in-a-million chance of having the described health effect.

Microbiological Contaminants:

Total Coliform – Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. If Coliforms were found in more samples than allowed, this then is a warning of potential problems.

Fecal coliform/E.Coli – Fecal coliforms and E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, and people with severely compromised immune systems.

Turbidity — Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

Total Organic Carbon — Total organic carbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes (THMs) and haloacetic acids (HAAs). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer.

Radioactive Contaminants:

Beta/photon emitter – Certain minerals are radioactive and may emit forms of radiation known as photons and beta radiation. Some people who drink water containing beta and photon emitters in excess of the MCL over many years may have an increased risk of getting cancer.

Alpha emitters – Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.

Combined Radium 226/228 – Some people who drink water that contains radium 226 or 228 in excess of the MCL over many years have an increased risk of getting cancer.

Inorganic Contaminants:

Antimony – Some people who drink water that contains antimony well in excess of the MCL over many years could experience increased in blood cholesterol and decrease in blood sugar.

Arsenic – Some people who drink water that contains arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system, and may have an increased risk of getting cancer.

Asbestos – Some people who drink water that contains asbestos in excess of the MCL over many years may have an increased risk of developing benign intestinal polyps.

Barium – Some people who drink water that contains barium in excess of the MCL over many years could experience an increase in their blood pressure.

Beryllium – Some people who drink water that contains beryllium well in excess of the MCL over many years could develop intestinal lesions.

Cadmium – Some people who drink water that contains cadmium in excess of the MCL over many years could experience kidney damage.

Chromium – Some people who use water that contains chromium well in excess of the MCL over many years could experience allergic dermatitis.

Copper – Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water that contains copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

Cyanide — Some people who drink water that contains cyanide well in excess of the MCL over many years could experience nerve damage or problems with their thyroid.

Fluoride — Some people who drink water that contains fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Children may get mottled teeth.

Lead — Infants and children who drink water that contains lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

Additional Health 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 service lines and home plumbing. Canyon Regional Water Authority 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.

Mercury – Some people who drink water containing mercury well in excess of the MCL over many years could experience kidney damage.

Nitrate – Infants below the age of six months who drink water that contains nitrate in excess of the MCL could become seriously ill and if untreated could die. Symptoms include shortness of breath and blue-baby syndrome.

Nitrite – Infants below the age of six months who drink water that contains nitrite in excess of the MCL could become seriously ill and, if untreated could die. Symptoms include shortness of breath and blue-baby syndrome.

Selenium – Selenium is an essential nutrient. However, some people who drink water-containing selenium in excess of the MCL over many years could experience hair or fingernail losses, numbness in fingers or toes, or problems with their circulation.

Thallium – Some people who drink water that contains thallium in excess of the MCL over many years could experience hair loss, changes in their blood, or problems with their kidneys, intestines, or liver.

Synthetic organic contaminants including pesticides and herbicides.

- **2, 4-D** Some people who drink water that contains the weed killer 2, 4-D well in excess of the MCL over many years could experience problems with their kidneys, liver, or adrenal glands.
- **2**, **4**, **5-TP** (**Silvex**) Some people who drink water that contains silvex in excess of the MCL over many years could experience liver problems.

Acrylamide – Some people who drink water containing high levels of acrylamide over a long period of time could have problems with their nervous system or blood, and may have an increased risk of getting cancer.

Alachlor – Some people who drink water containing alachlor in excess of the MCL over many years could have problems with their eyes, liver, kidneys, or spleen, or experience anemia, and may have an increased risk of getting cancer.

Atrazine – Some people who drink water that contains atrazine well in excess of the MCL over many years could experience problems with their cardiovascular system or reproductive difficulties.

Benzo(a)pyrene [PAH] – Some people who drink water containing benzo(a)pyrene in excess of the MCL over many years may experience reproductive difficulties and may have an increased risk of getting cancer.

Carbofuran – Some people who drink water that contains carbofuran in excess of the MCL over many years could experience problems with their blood, nervous, or reproductive system.

Chlordane – Some people who drink water that contains chlordane in excess of the MCL over many years could experience problems with their liver or nervous system, and may have an increased risk of getting cancer.

Dalapon – Some people who drink water that contains dalapon well in excess of the MCL over many years could experience minor kidney changes.

Di (2-ethylhexyl) adipate — Some people who drink water that contains di (2-ethylhexyl adipate well in excess of the MCL over many years could experience general toxic effects or reproductive difficulties.

Di (2-ethylhexyl) phthalate – Some people who drink water that contains di (2-ethylhexyl) phthalate in excess of the MCL over many years may have problems with their liver, or experience reproductive difficulties, and may have an increased risk of getting cancer.

Dibromochloropropane (DBCP/1, 2-Dibromo-3-chloropropane) – Some people who drink water that contains DBCP in excess of the MCL over many years could experience reproductive difficulties and may have an increased risk of getting cancer.

Dinoseb – Some people who drink water that contains dinoseb well in excess of the MCL over many years could experience reproductive difficulties.

Dioxin (2,3,7,8-TCDD) – Some people who drink water that contains dioxin in excess of the MCL over many years could experience reproductive difficulties and may have an increased risk of getting cancer.

Diquat – Some people who drink water that contains diquat in excess of the MCL over many years could get cataracts.

Endothall – Some people who drink water that contains endothall in excess of the MCL over many years could experience problems with their stomach or intestines.

Endrin – Some people who drink water that contains endrin in excess of the MCL over many years could experience liver problems.

Epichlorohydrin – Some people who drink water containing high levels of epichlorohydrin over a long period of time could experience stomach problems, and may have an increased risk of getting cancer.

Ethylene dibromide – Some people who drink water containing ethylene dibromide in excess of the MCL over many years could experience problems with their liver, stomach, reproductive system, or kidneys, and may have an increased risk of getting cancer.

Glyphosate – Some people who drink water that contains glyphosate in excess of the MCL over many years could experience problems with their kidneys or reproductive difficulties.

Heptachlor – Some people who drink water that contains heptachlor in excess of the MCL over many years could experience liver damage and may have an increased risk of getting cancer.

Heptachlor epoxide – Some people who drink water that contains heptachlor epoxide in excess of the MCL over many years could experience liver damage, and may have an increased risk of getting cancer.

Hexachlorobenzene – Some people who drink water that contains hexachlorobenzene in excess of the MCL over many years could experience problems with their liver or kidneys, or adverse reproductive effects, and may have an increased risk of getting cancer.

Hexachlorocyclopentadiene — Some people who drink water that contains hexachlorochylopentadiene well in excess of the MCL over many years could experience problems with their kidneys or stomach.

Lindane – Some people who drink water that contains lindane in excess of the MCL over many years could experience problems with their kidneys or liver.

Methoxychlor – Some people who drink water that contains methoxychlor in excess of the MCL over many years could experience reproductive difficulties.

Oxamyl [Vydate] – Some people who drink water that contains oxamyl in excess of the MCL over many years could experience slight nervous system effects.

PCBs [Polychlorinated byphenyls] — Some people who drink water that contains PCBs in excess of the MCL over many years could experience changes in their skin, problems with their thymus gland, immune deficiencies, or reproductive or nervous system difficulties, and may have an increased risk of getting cancer.

Pentachlorophenol – Some people who drink water that contains pentachlorophenol in excess of the MCL over many years could experience problems with their liver or kidneys, and may have an increased risk of getting cancer.

Picloram – Some people who drink water that contains picloram in excess of the MCL over many years could experience problems with their liver.

Simazine – Some people who drink water that contains simazine in excess of the MCL over many years could experience problems with their blood.

Toxaphene – Some people who drink water that contains toxaphene in excess of the MCL over many years could have problems with their kidneys, liver, or thyroid, and may have an increased risk of getting cancer.

Volatile Organic Contaminants:

Benzene – Some people who drink water that contains benzene in excess of the MCL over many years could experience anemia or a decrease in blood platelets, and may have an increased risk of getting cancer.

Bromate – Some people who drink water that contains bromate in excess of the MCL over many years may have an increased risk of getting cancer.

Carbon Tetrachloride — Some people who drink water containing carbon tetrachloride in excess of the MCL over many years could experience problems with their liver and may have an increased risk of getting cancer.

Chloramines – Some people who use water that contains chloramines well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water that contains chloramines well in excess of the MRDL could experience stomach discomfort or anemia.

Chlorine – Some people who use water that contains chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water that contains chlorine well in excess of the MRDL could experience stomach discomfort.

Chlorite – Some infants and young children who drink water that contains chlorite in excess of the MCL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who drink water that contains chlorite in excess of the MCL. Some people may experience anemia.

Chlorine dioxide – Some infants and young children who drink water that contains chlorine dioxide in excess of the MRDL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who drink water that contains chlorine dioxide in excess of the MRDL. Some people may experience anemia.

Chlorobenzene – Some people who drink water that contains chlorobenzene in excess of the MCL over many years could experience problems with their liver or kidneys.

o-Dichlorobenzene — Some people who drink water that contains o-dichlorobenzene well in excess of the MCL over many years could experience problems with their liver, kidneys, or circulatory systems.

p-Dichlorobenzene — Some people who drink water that contains p-dichlorobenzene in excess of the MCL over many years could experience anemia, damage to their liver, kidneys, or spleen, or changes in their blood.

1,2,-Dichloroethane — Some people who drink water that contains 1,2-dichloroethane in excess of the MCL over many years may have an increased risk of getting cancer.

Cis-1,2-Dichloroethylene — Some people who drink water that contains cis-1,2-dichloroethylene in excess of the MCL over many year could experience problems with their liver.

Trans-1,2-Dicholoroethylene — Some people who drink water that contains trans-1,2-dichloroethylene well in excess of the MCL over many years could experience problems with their liver.

Dichloromethane – Some people who drink water that contains dichloromethane in excess of the MCL over many years could have liver problems and may have an increased risk of getting cancer.

1,2-Dichloropropane – Some people who drink water that contains 1,2-dichloropropane in excess of the MCL over many years may have an increased risk of getting cancer.

Ethylbenzene – Some people who drink water that contains ethylbenzene well in excess of the MCL over many years could experience problems with their liver or kidneys.

Haloacetic Acids (HAA's) – Some people who drink water that contains haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

Styrene – Some people who drink water that contains styrene well in excess of the MCL over many years could have problems with their liver, kidneys, or circulatory system.

Tetrachloroethylene – Some people who drink water that contains tetrachloroethylene in excess of the MCL over many years could have problems with their liver, and may have an increased risk of getting cancer.

1,2,4-Trichlorobenzene – Some people who drink water that contains 1,2,4-trichlorobenzene in excess of the MCL over many years could experience changes in their adrenal glands.

1,1,1-Trichloroethane — Some people who drink water that contains 1,1,1-trichloroethane in excess of the MCL over many years could experience problems with their liver, nervous system, or circulatory system.

1,1,2-Trichloroethane — Some people who drink water that contains 1,1,2-trichloroethane well in excess of the MCL over many years could have problems with their liver, kidneys, or immune systems.

TTHMs [Total Trihalomethanes] – Some people who drink water that contains trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Toluene – Some people who drink water that contains toluene well in excess of the MCL over many years could have problems with their nervous system, kidneys, or liver.

Vinyl Chloride – Some people who drink water containing vinyl chloride in excess of the MCL over many years may have an increased risk of getting cancer.

Xylenes – Some people who drink water that contains xylenes in excess of the MCL over many years could experience damage to their nervous system.

Detects of arsenic, nitrates, lead, cryptosporidium and radon.

Arsenic – ND

Nitrates – The MCL is 10 mg/L.

Lead – ND

Cryptosporidium – We constantly monitor the water supply for various constituents. We have detected cryptosporidium in the source water (Lake Dunlap). We detected this constituent in 2009 and have been in a bin 2 category from that time. A bin 2 category requires the Hays Caldwell Water Treatment Plant (WTP) to achieve a 4-Log removal or inactivation of cryptosporidium. Hays Caldwell WTP has accomplished a 4-Log removal or inactivation of cryptosporidium over the complete bin 2 category duration, and continues to achieve this removal rate. We believe it is important for you to know that cryptosporidium may cause serious illness in immune-compromised persons such as person with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders. These people should seek advice from their health care providers.

Radon – Not Present

All sources of drinking water are subject to potential contamination by constituents that are naturally occurring or is man-made. All 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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Violations

Monitoring Requirements Not Met For: CRWA Hays Caldwell Water Treatment Plant

Our system failed to collect every required coliform sample. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did to correct this situation.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During November 2021 we did not complete all monitoring requirements for coliform bacteria and therefore cannot be sure of the quality of your drinking water during that time.

What should you do?

There is nothing you need to do at this time. You may continue to drink the water. If a situation arises where the water is no longer safe to drink, we are required to notify you within 24 hours.

What has been done?

The incident occurred due to the wrong Chain of Custody form given to the operator from the lab for November 2021. The Coliform sample was taken, and the results were negative, however, because the lab did not have the right form, they did not send the results to Texas Commission on Environmental Quality (TCEQ). CRWA has corrected the error with the lab to ensure this doesn't occur again.

Contact Information: If you have any questions please contact -

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Canyon Regional Water Authority