

Consumer Confidence Report for Calendar Year 2020

Este informe contiene informactión muy importante sobre el aqua usted bebe. Tradúscalo ó hable con alguien que lo entienda bien.

Public Water System Name				
Mescal Lakes Water System				
-	Phone Number	E-mail Address		
Elle Schaumberg, Compliance Manager		Compliance@southwesternutility.com		
	Mescal Lake	Mescal Lakes Water System Phone Number		

We want our valued customers to be informed about their water quality. If you would like to learn more, please contact Jason Long at 520-431-7723.

Drinking Water Sources

The sources of drinking water (both tap 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 pickup substances resulting from the presence of animals or from human activity.

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. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Our water source(s):

Three wells that withdraw from the Upper San Pedro Basin.

Drinking Water Contaminants

Diffiking water containmants	
Microbial Contaminants : Such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife	Organic Chemical Contaminants : Such as synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and also may come from gas stations, urban storm water runoff, and septic
Inorganic Contaminants: Such as salts and metals that	systems.
can be naturally-occurring or result from urban stormwater	Dedie estive Operative star That are he water the second
runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming	Radioactive Contaminants : That can be naturally occurring or be the result of oil and gas production and mining activities.
Pesticides and Herbicides: Such as agriculture, urban	
storm water runoff, and residential uses that may come	

from a variety of sources Vulnerable Population

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. Some people may be more vulnerable to contaminants in drinking water than the general population.

Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV-AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers.

For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and microbiological contaminants call the EPA *Safe Drinking Water Hotline* at 1-800-426-4791.

Source Water Assessment

Based on the information currently available on the hydrogeological settings of and the adjacent land uses that are in the specified proximity of the drinking water source(s) of this PWS, the department has given a low risk designation for the degree to which this PWS drinking water source(s) are protected. A low risk designation indicates that most source water protection measures are either already implemented, or the hydrogeology is such that the source water protection measure will have little impact on protection.

Further source water assessment documentation can be obtained by contacting ADEQ.

Definitions

Treatment Technique (TT) : A required process intended to reduce the level of a contaminant in drinking water	Minimum Reporting Limit (MRL): The smallest measured concentration of a substance that can be reliably measured by a given analytical method					
Level 1 Assessment : A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria was present	Millirems per year (MREM) : A measure of radiation absorbed by the body					
Level 2 Assessment : A very detailed study of the water system to identify potential problems and determine (if	Not Applicable (NA): Sampling was not completed by regulation or was not required					
possible) why an <i>E. coli</i> MCL violation has occurred and/or why total coliform bacteria was present	Not Detected (ND or <): Not detectable at reporting limit					
Action Level (AL) : The concentration of a contaminant which, if exceeded, triggers treatment, or other requirements	Nephelometric Turbidity Units (NTU): A measure of water clarity					
Maximum Contaminant Level (MCL): The highest level of a	Million fibers per liter (MFL)					
contaminant that is allowed in drinking water	Picocuries per liter (pCi/L): Measure of the radioactivity					
Maximum Contaminant Level Goal MCLG): The level of a	in water ppm : Parts per million or Milligrams per liter (mg/L)					
contaminant in drinking water below which there is no known or expected risk to health						
	ppb : Parts per billion or Micrograms per liter (µg/L)					
Maximum Residual Disinfectant Level (MRDL) : The level of disinfectant added for water treatment that may not be exceeded at the consumer's tap	ppt : Parts per trillion orNanograms per liter (ng/L)ppm x 1000 = ppb					
Maximum Residual Disinfectant Level Goal (MRDLG): The	ppq : Parts per quadrillion or ppb x 1000 = ppt					
level of disinfectant added for treatment at which no known or anticipated adverse effect on health of persons would occur	Picograms per liter (pg/L) ppt x 1000 = ppq					

Lead Informational Statement:

Lead, in drinking water, is primarily from materials and components associated with service lines and home plumbing. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Mescal Lakes Water System 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. 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 www.epa.gov/safewater/lead.

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Water Quality Data – Regulated Contaminants								
Microbiological (RTCR)	TT Violation Y or N	Number of Positive Samples	Positive Sample(s) Month & Year	MCL	MCLG	Likely Source of Contamination		
E. Coli	Ν	0	N/A	0	0	Huma	an and animal fecal waste	
Fecal Indicator (From GWR source) (coliphage, enterococci and/or E. coli)	Ν	0	N/A	0	0	Huma	Human and animal fecal waste	
 ¹ 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 (THM) and haloacetic acids (HAA). 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. ² Turbidity is a measure of the cloudiness of water and is an indication of the effectiveness of our filtration system. We monitor it because it is a good indicator of the quality of water. High turbidity can hinder the effectiveness of disinfectants. 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. MCL Violation Annual Average Samples MRDL MRDLG MRDLG Likely Source of Cause Cause								
	Y or N	(RAA)	(Low-High)			& Year	Contamination Water additive used to control	
Chlorine/Chloramine (ppm)	N	0.60 ppm	0.05 – 1.31	4	0	12/2020	microbes	
Disinfection By-Products	MCL Violation Y or N	Running Annual Average (RAA) <u>OR</u> Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination	

Haloacetic Acids (HAA5) (ppb)	Ν	2.00 ppb	2.00 - 2.00	60	N/A	06/2020	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)	N	0.50 ppb	0.50 - 0.50	80	N/A	06/2020	Byproduct of drinking water disinfection

Lead & Copper	MCL Violation Y or N	90 th Percentile	Number of Samples Exceeds AL	AL	ALG	Sample Month & Year	Likely Source of Contamination
Copper (ppm)	Ν	0.095 ppm	0	1.3	1.3	06/2020	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb)	Ν	ND	1	15	0	06/2020	Corrosion of household plumbing systems; erosion of natural deposits
Radionuclides	MCL Violation Y or N	Running Annual Average (RAA) <u>OR</u> Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Alpha Emitters (pCi/L) (This is Gross Alpha 4000)	Ν	4.60 pCi/L	4.60	15	0	09/2016	Erosion of natural deposits
Combined Radium-226 & -228 (pCi/L)	Ν	0.50 pCi/L	ND – 0.50	5	0	09/2016	Erosion of natural deposits
Inorganic Chemicals (IOC)	MCL Violation Y or N	Running Annual Average (RAA) <u>OR</u> Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Arsenic ¹ (ppb)	Ν	5.40 ppb	4.60 – 5.40	10	0	05/2013	Erosion of natural deposits, runoff from orchards, runoff from glass and electronics production wastes
Barium (ppm)	Ν	0.14 ppm	0.077 – 0.14	2	2	05/2013	Discharge of drilling wastes; discharge from metal refineries; Erosion of natural deposits
Chromium (ppb)	N	1.00 ppb	1.00	100	100	05/2013	Discharge from steel and pulp mills; Erosion of natural deposits
Fluoride (ppm)	Ν	1.00 ppm	0.51 – 1.00	4	4	05/2013	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate ² (ppm)	Ν	1.50 ppm	0.99 – 1.50	10	10	03/2020	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite (ppm)	Ν	0.05 ppm	0.05	1	1	05/2013	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium (ppm)	N	20 ppm	18 – 20	3000	3000	01/2018	Erosion of natural deposits

¹ Arsenic is a mineral known to cause cancer in humans at high concentration and is linked to other health effects, such as skin damage and circulatory problems. If arsenic is less than or equal to the MCL, your drinking water meets EPA's standards. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water, and continues to research the health effects of low levels of arsenic.

² Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause "blue baby syndrome." Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, and detected nitrate levels are above 5 ppm, you should ask advice from your health care provider.