2020 Drinking Water Consumer Confidence Report

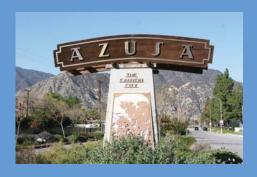


Para obtener una version en español de este informe, visite www.azusalw.com o llame al (626) 812-5225 para pedir una copia.

2020 Drinking Water Consumer Confidence Report

Azusa Light & Water is pleased to submit this report to you, our valued customer. This report is designed to inform you about the quality of water and services we deliver every day. Our commitment is to provide our customers with a safe and dependable supply of drinking water. Your water not only meets, but also surpasses, both State and Federal standards for quality and safety. To maintain this high quality, Water Treatment Plant Operators certified by the State Water Resources Control Board Division of Drinking Water (DDW) are operating Azusa's Joseph F. Hsu Water Filtration Plant on a regular basis, treating and monitoring the quality of the drinking water we serve.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board - Division of Drinking Water (DDW) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. U.S Food and Drug Administration regulations and California law also establish limits for contaminants in bottled water that must provide the same protection for public health.



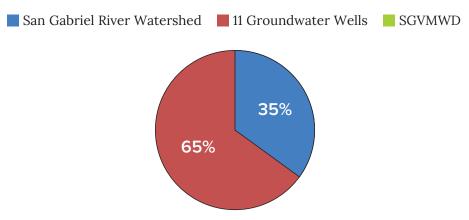
For further information, please contact Azusa Light & Water at (626) 812-5225 or visit our website at www.azusalw.com. For City of Azusa information, visit www.azusaca.gov.



The Azusa Water System

The City of Azusa, a municipality incorporated December 29, 1898, maintains ownership and operation of the municipal utility referred to as Azusa Light & Water (ALW). ALW is entrusted with the responsibility for providing water utility service within its municipal boundaries, and, since acquiring the Azusa Valley Water Company in 1993, providing water utility service to portions of the communities surrounding the City of Azusa. Serving approximately 24,077 active service connections with an estimated customer population of 106,400, the combined and integrated water systems of the City of Azusa and the Azusa Valley Water Company comprise Azusa Light & Water, the largest municipal water utility in the San Gabriel Valley.

2020 Azusa Water Supply Sources



- Surface Water from the San Gabriel Canyon watershed treated at Joseph F. Hsu Water Filtration Plant
- Groundwater pumped from 8 wells in the Canyon Basin
- Groundwater pumped from 2 wells in the Intermediate Basin
- Groundwater pumped from 1 well in the Main San Gabriel Basin
- San Gabriel Valley Municipal Water District Raw Water Connection

In general, typical sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. Water supplied to ALW's distribution system is a blend of treated surface water and groundwater.

All water provided to ALW customers continues to be much cleaner than that required by State and Federal regulations and of superior quality. Through proper planning and reliable operations and maintenance, ALW expects our precious water resources to be clean, safe, and sustainable well into the future.



Azusa produces its water from the upper reaches of the San Gabriel River, near the mouth of San Gabriel Canyon, far upstream of the contaminated groundwater zones found elsewhere in the San Gabriel Valley.

Contamination Limits

Drinking water may reasonably be expected to contain at least small amounts of contaminants. 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 activities. The presence of contaminants does not necessarily indicate that drinking water poses a health risk.

More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

Nitrates

Nitrate in drinking water at levels above 10 mg/L, measured in Nitrate as Nitrogen, is considered a health risk for infants of less than six months of age. High Nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in serious illness; symptoms include shortness of breath and blueness of the skin. High Nitrate levels may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with specific enzyme deficiencies.

Well Nitrate levels may rise for short periods of time due to rainfall or agricultural activity. Where higher Nitrate levels are present, you should seek advice from your healthcare provider or choose to use bottled water for mixing formula and juice for your baby; if you are pregnant, you should drink bottled water. Water purveyors are required by DDW regulations to issue warnings to customers when drinking water nitrate levels exceed 10 mg/L. Average Nitrate levels

Immuno-Compromised People



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

Immuno-compromised people, such as those with cancer undergoing chemotherapy, persons with HIV/AIDS or other immune system disorders, some elderly persons, and infants, can be particularly at risk from infections.

These people should seek advice about drinking water from their healthcare providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection from microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

Definitions

Notification Level & Action Level -

The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Cryptosporidium — A microscopic organism which, when ingested, can cause diarrhea, fever and other gastrointestinal symptoms. The organism comes from animal waste and may occur in surface watersheds. If detected, cryptosporidium is eliminated by an effective treatment combination including sedimentation, filtration and disinfection.

Definitions (cont.)

Maximum Contaminant Level Goal (MCLG) — The level of contaminant in drinking water below which there is no known or expected risk to health. Maximum contaminant level goals are set by the EPA.

Maximum Residual Disinfectant Level (MRDL) — The level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap.

Maximum Residual Disinfectant Level Goal (MRDLG) — The level of a disinfectant added for water treatment below which there is no known or expected risk to health. MRDLGs are set by the U.S. EPA.

Maximum Contaminant Level (MCL)

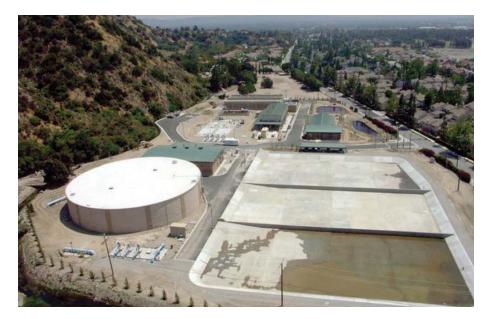
— The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the public health goals and maximum contaminant level goals as is economically and technologically practicable.

Primary Drinking Water Standard —

Primary maximum contaminant levels, specific treatment techniques adopted in lieu of primary MCLs, and monitoring and reporting requirements for MCLs that are specified in regulation.

Public Health Goals (PHG) — The level of a contaminant in drinking water below which there is no known or expected risk to health. Public health goals are set by the California Environmental Protection Agency.

Radon — A radioactive gas found throughout the United States that can't be seen, tasted or smelled. It can move up into a building through the ground through cracks and holes in the foundation and can build up to high levels. Radon can get into indoor air when released from tap water from



The Joseph F. Hsu Filtration Plant uses latest filtration technology to filter up to 12 million gallons per day.

sampled in the Azusa distribution system range from, ND to $6.0\ mg/L$ Nitrate as Nitrogen for groundwater and ND (nondetectable) for surface water.

Trihalomethanes

Trihalomethanes (THM's) are a family of disinfection byproduct chemicals formed when a disinfectant such as chlorine is added to the water supply and mixes with naturally occurring organic material found primarily in Surface Water. Disinfection is an important and necessary step in the water treatment process that protects against harmful bacteria and other potential contamination. Chlorine is the most widely used and approved water system disinfectant in the United States.

The amount of Total THM's allowed in drinking water is regulated by the EPA, which has set a Total THM (TTHM) annual average safe limit of 80 μ g/L in drinking water. Results of a health study released in early 1998 suggest that women who drink five glasses of water daily and are in the first three months of pregnancy may have an increased risk of miscarriage from TTHM levels in drinking water above 80 μ g/L. State officials have cautioned that the study is not definitive and have stated that more study on the issue is needed. Average TTHM levels sampled in the Azusa distribution system for all four quarters in 2020 are 41.3 μ g/L for the groundwater and surface water blend.

This Consumer Confidence Report reflects changes in drinking water regulatory requirements during 2016. All water systems are required to comply with the state Total Coliform Rule. Beginning April 1, 2016, all water systems are also required to comply with the federal Revised Total Coliform Rule. The new federal rule maintains the purpose to protect public health by ensuring the integrity of the drinking water distribution system and monitoring for the presence of microbials (i.e. total coliform and E. coli bacteria). The USEPA anticipates greater public health protection as the new rule requires water systems that are vulnerable to microbial contamination to identify and fix problems. Water systems that exceed a specified frequency of total coliform occurrences are required to conduct an assessment to determine if any sanitary defects exists. If found, these must be corrected by the water system.



To maintain high quality water, Water Treatment Plant Operators certified by the State Water Resources Control Board Division of Drinking Water (DDW) are operating Azusa's Joseph F. Hsu Water Filtration Plant on a regular basis, treating and monitoring the quality of the drinking water we serve.

Drinking Water Contaminants

Inorganic contaminants — Salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

Microbial contaminants — Viruses and bacteria which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Organic chemical contaminants — Synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

Pesticides and herbicides — Can come from a variety of sources such as agriculture, urban or stormwater runoff, and residential uses.

Radon — Can be naturally occurring or the result of oil and gas production and mining activities.

Perchlorate — Some people who drink water containing perchlorate in excess of the notification level may experience effects associated with hypothyroidism. Perchlorate interferes with the production of thyroid hormones, which are required for normal pre- and postnatal development in humans, as well as normal body metabolism.

Arsenic — While your drinking water meets the federal and state standard for arsenic, it does contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The U.S. Environmental Protection Agency continues to research the health effects of the low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Definitions (cont.)

showering, washing dishes, and other household activities. Radon entering the home through tap water will, in most cases, be a small source in indoor air as compared to radon entering the home through soil. Radon is a known carcinogen and breathing air containing radon can lead to lung cancer. Drinking water containing radon may cause increased risk of stomach cancer. If you are concerned about radon, testing the air in your home is inexpensive and easy. For information call EPA's Radon Hotline (1-800-SOS-RADON).

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

Turbidity — A measure of the cloudiness of the water. Turbidity is monitored because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfection.

Variance — State or EPA may give permission not to meet an MCL or a treatment technique under certain conditions.ADON).

Unregulated Contaminants

Boron — Some men who drink water containing boron in excess of the notification level over many years may experience reproductive effects, based on studies in laboratory animals.

Manganese — Manganese exposures resulted in neurological effects. High levels of manganese in people have been shown to result in adverse effects to the nervous system.

2020 WATER QUALITY TABLE

PRIMARY S	TANDAR	DS—Mandat	ory, Health-Rel	ated Standa	ırds Establis	hed by the	State of Cali	fornia Wate	r Resources Control Board
PARAMETER	VIOLA- TION	UNIT	STATE MAXIMUM CONTAMINANT LEVEL (MRDL)	PHG (MCLG) [MRDLG]	AZU GROUNE RANGE			JSA E WATER AVERAGE	- MAJOR SOURCES IN DRINKING WATER
FILTRATION PERFORMANCE & MICROBIOLOGICAL									
Turbidity (a)	No	Units	0.10 (a)	N/A	N/A	N/A	0.01-0.08	0.03	Soil Runoff
Cryptosporidium	No	Oocysts/L	TT	N/A	N/	'A	<.10	<.10	Naturally present in the environment >99% of crypto is removed during treatment
MICROBIOLOGICAL Coliform Bacteria P/A (b)	No	% Positive	5%	(0)	0%-1.79%	1.79% (maximum)	0%	0%	Naturally present in the environment Human and Animal waste
DISINFECTANT, DISINFECTION BY PRODUCTS									
Chlorine Residual	No	mg/L	(4)	(4)	0.28-1.41	0.93	0.28-1.41	0.93	Drinking water disinfectant added for treatment
Total Trihalomethanes (b)	No	μg/L	80	N/A	7.5-55.0	41.3(c)	7.5-55.0	41.3(c)	Byproduct of drinking water disinfection
Haloacetic Acids (b)	No	μg/L	60	N/A	1.20-16.0	10.88(c)	1.20-16.0	10.88(c)	Byproduct of drinking water disinfection
ORGANIC CONTAMINANTS									
Tetrachloroethylene (PCE)	No	μg/L	5	0.06	ND-0.88	0.52	ND	ND	Discharge from factories and dry cleaners
INORGANIC CONTAMINANTS									
Arsenic	No	μg/L	10	0.004	2.2-4.6	3.0	2.2-4.6	3.0	Erosion of natural deposits
Barium**	No	μg/L	1000	2	ND-110	28	ND	ND	Erosion of natural deposits
Fluoride	No	mg/L	2	1	0.15-0.27	0.20	0.4	0.4	Erosion of natural deposits
Nitrate (as N)	No	mg/L	10	10	ND-6.0	2.37(b)	ND	ND	Leaching from fertilizer use
Perchlorate	No	μg/L	6	6	ND-ND	ND (d)	ND	ND	Abnormal production of Thyroid Hormones
RADIOACTIVE CONTAMINANTS									
Gross Alpha Activity**	No	pCi/L	15	(0)	1.9	1.9	ND	ND	Erosion of natural deposits
UNREGULATED CONTAMINANTS									
Boron	No	μg/L	NL-1000	N/A	82	82	ND	ND	Runoff/leaching from natural deposits
Manganese	No	μg/L	N/A	N/A	ND-4.5	1.08	ND	ND	Leaching from natural deposits

⁽a) Standard applies to surface water only. A separate standard applies to the distribution system. See secondary standards.

(d) Blended value. (MRDL) The level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap.

^{**}Samples collected in 2018. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

CONTAMINANTS WITH SECONDARY STANDARDS—Aesthetic Standards Established by the State of California Water Resources Control Board								
		STATE	AZUS	SA	AZUS	SA		
PARAMETER	UNIT	MAXIMUM CONTAMINANT LEVEL	GROUNDWATER RANGE AVERAGE		SURFACE WATER RANGE AVERAGE		MAJOR SOURCES IN DRINKING WATER	
Turbidity	Units	5	0.02-0.47	0.08	. 0.02-0.47	0.08	Soil Runoff	
Color	Units	15	ND	ND	ND	ND	Naturally occurring organic materials	
Odor Threshold	Units	3	1.0	1.0	1.0	1.0	Naturally occurring organic materials	
Chloride	mg/L	500	10.8	10.8	5.5	5.5	Runoff/leaching from natural deposits	
Sulfate	mg/L	500	24.4	24.4	22	22	Runoff/leaching from natural deposits	
Total Dissolved Solids	mg/L	1000	220	220	220	220	Runoff/leaching from natural deposits	
Specific Conductance	μmho/Cm	1600	389	389	390	390	Substances that form ions in the water	
ADDITIONAL CONSTITUENTS ANALYZED								
pH	Units	No Standard	7.10-8.40	7.75	7.50-8.55	8.02		
Hardness (CaCo3)	mg/L	No Standard	156	156	200	200	Runoff/leaching from natural deposits	
Sodium	mg/L	No Standard	24.7	24.7	15	15	Runoff/leaching from natural deposits	
Calcium	mg/L	No Standard	42	42	58	58	Runoff/leaching from natural deposits	
Potassium	mg/L	No Standard	3.08	3.08	4.3	4.3	Runoff/leaching from natural deposits	
Magnesium	mg/L	No Standard	12	12	13	13	Runoff/leaching from natural deposits	

ABBREVIATIONS

Less than milligrams per Liter (parts per million) mg/L ND pico Curies per Liter None Detected pCi/L

Nephelometric Turbidity Unit(s) NTU NL Notification Level µmho/Cm micromhos per Centimeter N/A Not Applicable μg/L micrograms per Liter (parts per billion) TT Treatment Technique

When you read about water quality, you might ask yourself:

How much is one part per billion (1ppb)?

Answer: 1ppb equal to 1 drop of water in 14,000 gallons, 1 second in 32 years, 1 inch in 16,000 miles or 1 cent in \$10 million.

How much is one part per million (1ppm)?

Answer: 1ppm is equal to 1 drop of water in 14 gallons, 1 second in 12 days, 1 inch in 16 miles or 1 cent in \$10,000.

In addition to the above constituents, we have conducted monitoring for 32 additional organic chemicals for which the State Water Resources Control Board Division of Drinking Water and U.S. EPA have not yet set a standard and all results were below detection levels unless otherwise noted.

⁽b) Based on distribution system monitoring. (c) Four quarter average.

ADDITIONAL DATA CITY OF AZUSA LIGHT & WATER LEAD & COPPER TRIANNUAL (2020) AZUSA DRINKING WATER CONCENTRATION PARAMETER PHG MCL UNITS OF MAJOR SOURCES **HEALTH EFFECTS LANGUAGE** or MCLG or AL INORGANIC CONTAMINANTS MEASUREMENT IN DRINKING WATER 90th Percentile Value RANGE Distribution System 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 may experience gastrointestinal distress. Some people who drink water containing of the action level over many years may suffer liver. 170 680 Copper μg/L Internal corrosion of household 1300 (AL) 58-940 plumbing systems; erosion of natural deposits; leaching from wood preservatives of the action level over many years may suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor. Lead μg/L 2 Internal corrosion of household water Infants and children who drink water containing 15 (AL) 0 0 lead in excess of the action level may experience delays in their physical or mental development. plumbing systems; discharges from industrial manufacturers, erosion of natural deposits Children may show slight deficits in attention span and learning abilities. Adults who drink this water over many years may develop kidney problems or high blood pressure.

50 Copper & Lead Samples Collected August 2020

No Copper Samples exceeded the Action Level

No Lead Samples exceeded the Action Level

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. Azusa Light & Water 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/lead.

LEAD TESTING IN SCHOOLS

The State Water Resources Control Board, Division of Drinking Water (DDW), in collaboration with the California Department of Education, have taken the initiative to test for Lead in drinking water at all public schools serving kindergarten or any of grades 1-12, inclusive, and preschools and child day care facilities located on public school property. In early 2017, DDW and Local Primacy Agencies issued amendments to the domestic water supply permits of approximately 1,200 community water systems, including Azusa Light & Water (ALW), so that applicable facilities served by a community water system could request water sampling for Lead and receive technical assistance if an elevated Lead sample is found. To further safeguard water quality in California's K-12 public schools, California Assembly Bill 746, approved on October 13, 2017, required community water systems to test lead levels by July 1, 2019, in drinking water at all California public, K-12 school sites constructed before January 1, 2020. ALW has satisfied this requirement by completing Lead testing of drinking water in all 26 schools served by the utility. For more information, go to https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/leadsamplinginschools.html.

SAMPLING RESULTS SHOWING TREATMENT OF AZUSA'S SURFACE WATER SOURCES						
Treatment Technique*	Low-pressure membrane filtration system.					
Turbidity Performance Standards** (that must be met through the water treatment process)	Turbidity of the combined filtered water must: 1. Be less than or equal to 0.10 NTU in 95% of measurements in a month. 2. Not exceed 0.5 NTU at any time.					
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1	100%					
Highest single turbidity measurement during the year	0.08					
The number of violations of any surface water treatment requirements	0					

A required process intended to reduce the level of a contaminant in drinking water.

Drinking Water Source Assessment and Protection (DWSAP) Program

A copy of the complete assessment may be viewed at Azusa Light & Water. To request a viewing of the DWSAP assessment, contact the utility's Water Production Supervisor (626) 812-5080.

Azusa Light & Water submitted DWSAP package on December 19, 2002, using an electronic format approved by Department of Public Health. The assessments are summarized in the table below.

DRINKING WATER SOURCE ASSESSMENT AND PROTECTION (DWSAP) PROGRAM						
SOURCE NUMBER	SOURCE ID	MOST VULNERABLE ACTIVITIES (PCA)	CHEMICAL DETECTED			
001	Well 1	Mining Operations-Historic	None			
002	Well 2	Mining Operations-Historic	None			
003	Well 3	Mining Operations-Historic	None			
004	Well 4	Mining Operations-Historic	None			
033	Well 11	Mining Operations-Historic	None			
034	Well 12	Mining Operations-Historic	None			
005	Well 5	Animal Feeding Operations as defined in federal regulation 2	None			
006	Well 6	Automobile-Gas Stations Dry Cleaners Historic Gas Stations	None			
007	Well 7		None			
800	Well 8		None			
010	Well 10		Perchlorate, Nitrate, PCE			
-		Plastics/Synthetics Producers Underground Storage Tanks-Confirmed Leaking Tanks				
		Known Contaminant Plumes				
		Sewer Collection Systems				

(PCA) Possible Contamination Activities

Azusa Light & Water encourages customers to stay informed by attending regularly scheduled Utility Board meetings held on the 4th Monday of each month at 6:30 P. M. Utility Board meetings are held at the Azusa Light & Water office located at 729 N. Azusa Avenue, Azusa, CA 91702. Visit us online at www.azusalw.com.

^{**} Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.



Azusa Light & Water watering schedule is 3 days per week in summer (April-October) and 2 days per week in winter (November-March). Mandatory water restrictions remain in effect (see Water Rule 21). Please visit www.azusalw.com for details. Drought Hotline: (626) 812-5119