



Consumer Confidence Report for Calendar Year 2017

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

Public Water System ID Number	Public Water System Name		
AZ04-01-018	Livco Water Co		
Contact Name and Title	Phone Number	E-mail Address	
Jenni Wicks - Manager	928 337-2266	livco@frontiernet.net	
<p>We want our valued customers to be informed about their water quality. If you would like to learn more about public participation or to attend any of our regularly scheduled meetings, please contact <u>Jenni Wicks</u> at <u>Livco Water Co</u> for additional opportunity and meeting dates and times.</p>			

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):	Two wells in Concho Valley
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Drinking Water Contaminants

Microbial Contaminants: Such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife

Inorganic Contaminants: Such as salts and metals that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming

Pesticides and Herbicides: Such as agriculture, urban storm water runoff, and residential uses that may come from a variety of sources

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 systems.

Radioactive Contaminants: That can be naturally occurring or be the result of oil and gas production and mining activities.

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.

Vulnerable Population

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 possible) why an <i>E. coli</i> MCL violation has occurred and/or why total coliform bacteria was present	Not Applicable (NA): Sampling was not completed by regulation or was not required
Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment, or other requirements	Not Detected (ND or <): Not detectable at reporting limit
Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water	Nephelometric Turbidity Units (NTU): A measure of water clarity
Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health	Million fibers per liter (MFL)
Maximum Residual Disinfectant Level (MRDL): The level of disinfectant added for water treatment that may not be exceeded at the consumer's tap	Picocuries per liter (pCi/L): Measure of the radioactivity in water
Maximum Residual Disinfectant Level Goal (MRDLG): The level of disinfectant added for treatment at which no known or anticipated adverse effect on health of persons would occur	ppm: Parts per million or Milligrams per liter (mg/L)
	ppb: Parts per billion or Micrograms per liter (µg/L)
	ppt: Parts per trillion or Nanograms per liter (ng/L) ppm x 1000 = ppb
	ppq: Parts per quadrillion or Picograms per liter (pg/L) ppb x 1000 = ppt
	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. **Livco Water Co** 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.

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	N	0		0	0	Human and animal fecal waste	
Fecal Indicator (coliphage, enterococci and/or E. coli)	N	0		0	0	Human and animal fecal waste	
Disinfectants	MCL Violation Y or N	Running Annual Average (RAA)	Range of All Samples (Low-High)	MRDL	MRDLG	Sample Month & Year	Likely Source of Contamination
Chlorine/Chloramine (ppm)	N	0.0	0.0	4	0	2017 – each month	Water additive used to control microbes
Disinfection By-Products	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Haloacetic Acids (HAA5) (ppb)	N	0	0	60	N/A	8/17	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)	N	0	0	80	N/A	8/17	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)	N	0.036	0	1.3	1.3	8/17	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb)	N	1.7	0	15	0	8/17	Corrosion of household plumbing systems; erosion of natural deposits
Radionuclides	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Beta/Photon Emitters (mrem/yr.)	POE1 N POE2 N	1.9 0.4		4	0	11/15	Decay of natural and man-made deposits
Alpha Emitters (pCi/L)	POE1 N POE2 N	6.4 0.4		15	0	11/15	Erosion of natural deposits
Inorganic Chemicals (IOC)	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Antimony (ppb)	N	POE1 1.8 POE2 <1		6	6	11/15	Discharge from petroleum refineries; fire retardants; ceramics, electronics and solder
Arsenic ¹ (ppb)	N	POE1 1.8 POE2 <1		10	0	11/06	Erosion of natural deposits, runoff from orchards, runoff from glass and electronics production wastes
Asbestos (MFL)	N	<0.02		7	7	2003	Decay of asbestos cement water mains; Erosion of natural deposits
Barium (ppm)	N	POE1 0.061 POE2 0.011		2	2	11/15	Discharge of drilling wastes; discharge from metal refineries; Erosion of natural deposits
Beryllium (ppb)	N	POE1 <1 POE2 <1		4	4	11/15	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium (ppb)	N	POE1 <0.5 POE2 <0.5		5	5	11/15	Corrosion of galvanized pipes; natural deposits; metal refineries; runoff from waste batteries and paints
Chromium (ppb)	N	POE1 1 POE2 1.2		100	100	11/15	Discharge from steel and pulp mills; Erosion of natural deposits
Cyanide (ppb)	N	POE1 <2.5 POE2 <2.5		200	200	11/15	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories
Fluoride (ppm)	N	POE1 0.37 POE2 0.057		4	4	11/15	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Mercury (ppb)	N	POE1 <0.2 POE2 <0.2		2	8/15	8/15	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills and cropland.
Nitrate (ppm)	N	POE1 <0.01 POE2 <0.35		10	10	8/16	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite ² (ppm)	N	POE1 <0.05 POE2 <0.05		1	1	8/12	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium (ppb)	N	POE1 <5 POE2 <5		50	50	11/15	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Thallium (ppb)	N	POE1 <1 POE2 <1		2	0.5	11/15	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

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.

Synthetic Organic Chemicals (SOC)	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
2,4-D (ppb)	N	<0.1		70	70	11/15	Runoff from herbicide used on row crops
2,4,5-TP (a.k.a. Silvex) (ppb)	N	<0.2		50	50	11/15	Residue of banned herbicide
Alachlor (ppb)	N	<0.1		2	0	11/15	Runoff from herbicide used on row crops
Atrazine (ppb)	N	<0.5		3	3	11/15	Runoff from herbicide used on row crops
Benzo (a) pyrene (PAH) (ppt)	N	<20		200	0	11/15	Leaching from linings of water storage tanks and distribution lines
Carbofuran (ppb)	N	<0.05		40	40	11/15	Leaching of soil fumigant used on rice and alfalfa
Chlordane (ppb)	N	<0.1		2	0	11/15	Residue of banned termiticide
Dalapon (ppb)	N	<1		200	200	11/15	Runoff from herbicide used on rights of way
Di (2-ethylhexyl) adipate (ppb)	N	<0.6		400	400	11/15	Discharge from chemical factories
Di (2-ethylhexyl) phthalate (ppb)	N	<0.6		6	0	11/15	Discharge from rubber and chemical factories
Dibromochloropropane (ppt)	N	POE1 <10 POE2 <10		200	0	11/15	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
Diquat (ppb)	N	<5		20	20	11/15	Runoff from herbicide use
Dioxin [a.k.a. 2,3,7,8-TCDD] (ppq)	N	<0.5		30	0	11/15	Emissions from waste incineration and other combustion; discharge from chemical factories
Endrin (ppb)	N	<0.01		2	2	11/15	Residue of banned insecticide
Epichlorohydrin	N	POE1 <0.00001 POE2 <0.00001		TT	0	11/15	Discharge from industrial chemical factories; an impurity of some water treatment chemicals
Glyphosate (ppb)	N	<5		700	700	11/15	Runoff from herbicide use
Heptachlor (ppt)	N	<10		400	0	11/15	Residue of banned termiticide
Heptachlor epoxide (ppt)	N	<10		200	0	11/15	Breakdown of heptachlor
Hexachlorobenzene (ppb)	N	<0.05		1	0	11/15	Discharge from metal refineries and agricultural chemical factories
Lindane (ppt)	N	POE1 <10 POE2 <10		200	200	11/15	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor (ppb)	N	POE1 <0.05 POE2 <0.05		40	40	11/15	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa,
Oxamyl (a.k.a. Vydate) (ppb)	N	<0.05		200	200	11/15	Runoff/leaching from insecticide used on apples, potatoes and tomatoes
Picloram (ppb)	N	<10		500	500	11/15	Herbicide runoff
Simazine (ppb)	N	<0.05		4	4	11/15	Herbicide runoff
Toxaphene (ppb)	N	POE1 <0.05 POE2 <0.05		3	0	11/15	Runoff/leaching from insecticide used on cotton and cattle
Volatile Organic Chemicals (VOC)	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Benzene (ppb)	N	<0.5		5	0	8/16	Discharge from factories; leaching from gas storage tanks and landfills
Carbon tetrachloride (ppb)	N	<0.5		5	0	8/16	Discharge from chemical plants and other industrial activities
Chlorobenzene (ppb)	N	<0.5		100	100	8/16	Discharge from chemical and agricultural chemical factories

o-Dichlorobenzene (ppb)	N	<0.5		600	600	8/16	Discharge from industrial chemical factories
p-Dichlorobenzene (ppb)	N	<0.5		75	75	8/16	Discharge from industrial chemical factories
1,2-Dichloroethane (ppb)	N	<0.5		5	0	8/16	Discharge from industrial chemical factories
1,1-Dichloroethylene (ppb)	N	<0.5		7	7	8/16	Discharge from industrial chemical factories
cis-1,2-Dichloroethylene (ppb)	N	<0.5		70	70	8/16	Discharge from industrial chemical factories
trans-1,2-Dichloroethylene (ppb)	N	<0.5		100	100	8/16	Discharge from industrial chemical factories
Dichloromethane (ppb)	N	<0.5		5	0	8/16	Discharge from pharmaceutical and chemical factories
1,2-Dichloropropane (ppb)	N	<0.5		5	0	8/16	Discharge from industrial chemical factories
Ethylbenzene (ppb)	N	<0.5		700	700	8/16	Discharge from petroleum refineries
Styrene (ppb)	N	<0.5		100	100	8/16	Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene (ppb)	N	<0.5		5	0	8/16	Discharge from factories and dry cleaners
1,2,4-Trichlorobenzene (ppb)	N	<0.5		70	70	8/16	Discharge from textile-finishing factories
1,1,1-Trichloroethane (ppb)	N	<0.5		200	200	8/16	Discharge from metal degreasing sites and other factories
1,1,2-Trichloroethane (ppb)	N	<0.5		5	3	8/16	Discharge from industrial chemical factories
Trichloroethylene (ppb)	N	<0.5		5	0	8/16	Discharge from metal degreasing sites and other factories
Toluene (ppm)	N	<0.5		1	1	8/16	Discharge from petroleum factories
Vinyl Chloride (ppb)	N	<0.5		2	0	8/16	Leaching from PVC piping; discharge from chemical factories
Xylenes (ppm)	N	<0.5		10	10	8/16	Discharge from petroleum or chemical factories

Violation Summary (for MCL, MRDL, AL, TT, or Monitoring & Reporting Requirement)

Violation Type	Explanation, Health Effects	Time Period	Corrective Actions