

# Water Is Our Business

# Our mission at Jordan Valley Water Conservancy District is to deliver quality water and services every day.

This task comes with the responsibility to plan for future generations—usually 50 years into the future.

Our financial planning, extensive infrastructure, and state-of-the-art treatment processes help us deliver on our promise to deliver quality right to your home, no matter the weather or time of day.

Our vision is to provide a sustainable water supply and to promote individual and community well-being.

In accomplishing our mission and vision, we abide by the following values:

SAFETY: We are committed to employee and public safety.

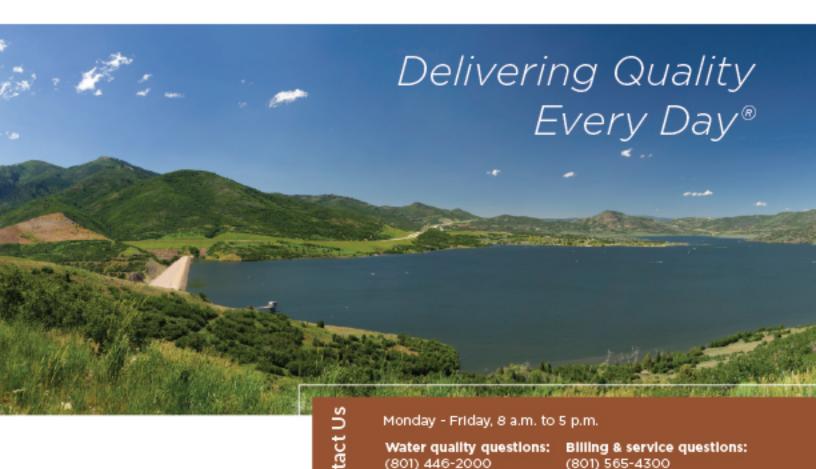
SERVICE: We care about our customers' needs and strive to fulfill them.

RESPECT: We care about our employees and invest in their success.

INTEGRITY: We believe in doing the right thing, individually and as an organization.

LEADERSHIP: Our passion for quality drives us to employ innovative practices.





# **Board of Trustees**

https://jvwcd.org/contact

Corey L. Rushton, *Chair*Karen D. Lang, *Vice Chair*Gregory R. Christensen
A. Reed Gibby
Sherrie L. Ohrn
Dawn R. Ramsey
Lyle C. Summers
John H. Taylor

Barbara L. Townsend

# **General Managers**

Bart Forsyth General Manager/CEO

# Alan Packard

Assistant General Manager Engineering, Strategic and Long-term Planning, and New Initiatives

# Shazelle Terry

Assistant General Manager
Operations & Maintenance

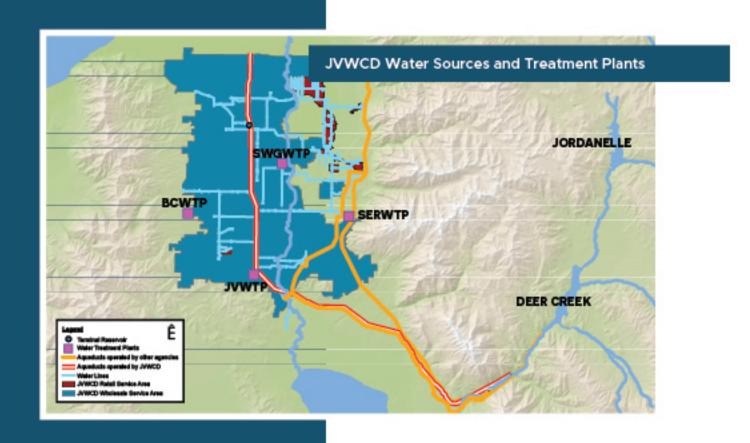
### Matt Olsen

Assistant General Manager Communications, Water Conservation and Information Systems

# Where Your **Water**Comes From

About 90 percent of the water we deliver is surface water. Sources include the Provo River system, which is comprised of several high Uinta Mountain lakes, the Provo River, Deer Creek and Jordanelle reservoirs, the Weber River System, and snowmelt run-off from several mountain streams along the east bench of the Wasatch Mountains. Our remaining water supply comes from ground-water sources located in a deep underground aquifer. Wells located primarily in the southeast portion of the Salt Lake Valley access this water for delivery to your tap.

The map below shows all of our water sources and treatment plants.



# Utah Water Savers



Save water. Get money.

Programs available at UtahWaterSavers.com



Free consultations for homeowners wanting to improve the water efficiency of their yard.



Cash rebates for homeowners who purchase a smart controller for their irrigation system.



Take a Localscapes class and get cash rewards for completing landscaping projects that meet Localscapes requirements.



Cash rebates for homeowners who replace toilets that were installed before 1994.



Cash rebates for homeowners who convert grass park strips to water-efficient designs.



2020

# Water Quality Data

Definitions of acronyms used in these tables are found on page 9.

The following table lists only detectable results for drinking water monitoring completed by Jordan Valley Water Conservancy District during 2020 (unless otherwise noted). For certain parameters, EPA and/or the state require monitoring less than once per year because concentration levels are most likely to change slowly. The presence of compounds in the water does not necessarily indicate that the water poses a health risk.

# **Water Quality Data**

		2020	2020	MONITORING CRITERIA		LIKELY SOURCE(S)/COMMENTS Unless noted otherwise, the data presented in this			
	UNITS	RANGE	AVERAGE	MCL	MCLG	table are from testing conducted in 2020.			
PRIMARY INORGAN	PRIMARY INORGANICS - Monitoring required at least every 3 years for groundwater and at least every 9 years for surface water.								
Arsenic	μg/L	ND - 2.5	1.20	10	0	Erosion of naturally occurring deposits and runoff from orchards.			
Chromium	μg/L	ND - 7.1	0.20	100	100	Discharge from steel and pulp mills; erosion of naturally occurring deposits.			
Copper	μg/L	ND - 125.0	12.90	NE	NE	Erosion of naturally occurring deposits.			
Cyanide, Free	μg/L	ND - 3.0	0.30	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories.			
Fluoride	mg/L	0.1 - 1.1	0.60	4	4	Erosion of naturally occurring deposits and discharge from fertilizers. Fluoride added at source.			
Lead	μg/L	ND - 1.4	0.10	NE	NE	Erosion of naturally occurring deposits.			
Nickel	μg/L	ND - 3.4	0.40	NE	NE	Erosion of naturally occurring deposits.			
Nitrate	mg/L	ND - 2.8	1.10	10	10	Runoff from fertilizer, leaching from septic tanks, and naturally occurring organic material.			
Nitrite	mg/L	ND - 1.0	0.05	1	1	Runoff from fertilizer, leaching from septic tanks, and naturally occurring organic material.			
Selenium	μg/L	ND - 8.1	0.70	50	50	Erosion of naturally occurring deposits.			
Sodium	mg/L	8 - 74.2	17.30	NE	NE	Erosion of naturaly occurring deposits and runoff from road de-icing.			
Sulfate	mg/L	5.4 -239.0	46.90	1000	NE	Erosion of naturally occurring deposits.			
Thallium	μg/L	ND - 1.1	0.10	2	0.5	Leaching from ore-processing sites and discharges from electronics, glass and drug factories.			
TDS	mg/L	51.5 - 652.0	242.0	2000	NE	Erosion of naturally occurring deposits.			
Turbidity (groundwater sources)	NTU	0.01 - 0.7	0.20	5	NE	Suspended material from soil runoff. (MCL is 5.00 for groundwater).			
Turbidity (surface water sources)	NTU	0.02 - 0.3	0.03	0.3	π	Suspended material from soil runoff. (MCL is .03 NTU 95% of the time for surface water).			
Meeting TT	96	100% (Treatmer	nt Technique	requirement ap	plies only to tr	eated surface water sources)			
SECONDARY INORGANICS - Aesthetic Standards									
Aluminum	μg/L	ND - 13.1	1.0	SS = 50-200	NE	Erosion of naturally occurring deposits and treatment residuals.			
Chloride	mg/L	10.0 - 161.0	32.3	SS = 250	NE	Erosion of naturally occurring deposits.			
Color	CU	0.5 - 10.0	3.0	SS = 15	NE	Decaying naturally occurring organic material and suspended particles. (Data is from 2019 sample).			
Iron	μg/L	ND - 225.0	22.9	SS = 300	NE	Erosion of naturally occurring deposits.			
Manganese	μg/L	ND - 34.0	2.5	SS = 50	NE	Erosion of naturally occurring deposits.			
рн		6.7 - 8.2	7.7	SS = 6.5 - 8.5	NE	Naturally occurring and affected by chemical treatment.			

				MONITORING CRITERIA		LIKELY SOURCE(S)/COMMENTS			
	UNITS	2020 RANGE	2020 AVERAGE	MCL	MCLG	Unless noted otherwise, the data presented in this table are from testing conducted in 2020.			
RADIOLOGICAL									
Gross-Alpha	pCI/L	-0.7 - 14	3.2	15	NE	Decay of natural and man-made deposits.			
Gross-Beta	pCI/L	1.2 - 32	5.3	50	NE	Decay of natural and man-made deposits.			
Radium 226	pCI/L	-0.5 - 1.3	0.3	NE	NE	Decay of natural and man-made deposits.			
Radium 228	pCI/L	-0.3 - 1.3	0.4	NE	NE	Decay of natural and man-made deposits.			
Uranium	μg/L	0.002 - 10.1	3.8	30.0	NE	Decay of natural and man-made deposits.			
DISINFECTANTS/DIS	DISINFECTANTS/DISINFECTION BY-PRODUCTS								
Chlorine	mg/L	0.1 - 1.1	0.7	4.0	NE	Drinking water disinfectant.			
Chlorine Dioxide	ug/L	ND - 0.1	0.003	800	NE	Drinking water disinfectant.			
Chlorite	mg/L	ND - 0.9	0.5	1.0	0.8	By-product of drinking water disinfection.			
HAA5s	μg/L	ND - 50.8	15.1	60.0	NE	By-product of drinking water disinfection.			
HAA6s	μg/L	10.6 - 53.6	24.9	UR	NE	By-product of drinking water disinfection.			
TTHMs	µg/L	ND - 67.4	20.2	80.0	NE	High result is not a violation. Violation is determined on annual location avg. By-product of drinking water disinfection.			
Highest Annual Location-wide Average TTHM = 54 μg/L, HAA5s = 32.2 μg/L									
ORGANIC MATERIAL	ķī.								
Dissolved Organic Carbon	mg/L	1.6 - 2.3	2	тт	NE	Naturally occurring.			
Total Organic Carbon	mg/L	ND - 3.1	1.4	TT	NE	Naturally occurring.			
UV-254	1/cm	0.02 - 0.04	0.03	UR	NE	This is a measure of the concentration of UV- absorbing organic compounds. Naturally occurring.			
LEAD and COPPER (	tested at th	e consumer	s tap) - mor	nitoring req	uired at le	ast every 3 years.			
Copper	μg/L	6 - 385	153	AL = 1300.0	NE	Corrosion of household plumbing systems, erosion of naturally-occurring deposits (Copper violation is determined by the 90th percentile result. Data is from 2016 sample).			
Lead	μg/L	ND - 21	2.0	AL = 15.0	NE	Corrosion of household plumbing systems, erosion of naturally-occurring deposits (Lead violation is determined by the 90th percentile result. Data is from 2016 sample).			
90th Percentile		Copper = 310 ppb, Lead = 4.7 ppb							
# of sites above Action	n Level	Copper = 0	), Lead = 1						
PROTOZOA (sampled at source water prior to removal through the treatment process)									
Glardia	Cysts/1L	ND - 7.0	1.5	тт	0.0	Parasite that enters lakes and rivers through sewage and animal waste (Data is from 2017 sample).			
MICROBIOLOGICAL	MICROBIOLOGICAL								
Total Coliform	% Positive per month	0% - 0%	0%	Not >5%	0.0	MCL is for monthly compliance. All repeat samples were negative. No violations were issued. Human and animal fecal waste; naturally-occurring in the environment.			
HPC	MPN/mL	ND - 10.4	5.5	500	0.0	Used to measure the overall bacteriological quality of drinking water			
PESTICIDES/PCBs/S	OCs	V 8	<u> </u>	2	2				
Bis (2ethylhexyl) phthalate	μg/L	ND - 0.8	0.04	6	0.0	Discharge from rubber and chemical factories.			

		2020	2020	MONITORING CRITERIA		LIKELY SOURCE(S)/COMMENTS Unless noted otherwise, the data presented in this
	UNITS	RANGE	AVERAGE	MCL	MCLG	table are from testing conducted in 2020.
UNREGULATED PARA	AMETERs -	monitoring n	ot required			
Alkalinity, Bicarbonate	mg/L	37.0 - 225.0	136.0	UR	NE	Naturally occurring, (Data is from 2019 sample).
Alkalinity, Carbonate	mg/L	ND - 4.0	0.3	UR	NE	Naturally occurring. (Data is from 2019 sample).
Alkalinity, CO2	mg/L	28.0 - 132.0	92.1	UR	NE	Naturally occurring (Data is from 2016 sample).
Alkalinity, Total (CaCo₂)	mg/L	21.0 - 225.0	111.2	UR	NE	Naturally occurring.
Ammonia	rng/L	0.3 - 0.3	0.3	UR	NE	Runoff from fertilizer and naturally occurring (Data is from 2018 sample).
Bromide	μg/L	ND - 16.9	2.0	UR	NE	Naturally occurring.
Boron	μg/L	39.0 - 39.0	39.0	UR	NE	Erosion of naturally occurring deposits (Data is from 2018 sample).
Calcium	mg/L	22.7 - 86.6	41.7	UR	NE	Erosion of naturally occurring deposits.
Conductance	µmhos/cm	122.0 - 1100.0	401.2	UR	NE	Naturally occurring.
Cyanide, Total	μg/L	ND - 2.0	0.3	UR	NE	Discharge from steel/metal factories; discharge from plastic and fertilizer factories.
Geosmin	ng/L	ND - 5.9	1.7	UR	NE	Naturally occurring organic compound associated with musty odor.
Hardness, Calcium	mg/L	16.0 - 200.0	111.3	UR	NE	Erosion of naturally occurring deposits.
Hardness, Total	mg/L	43.9 - 381.0	166.6	UR	NE	Erosion of naturally occurring deposits.
Magnesium	mg/L	6.9 - 41.3	15.2	UR	NE	Erosion of naturally occurring deposits.
Molybdenum	μg/L	ND - 2.3	0.7	UR	NE	By-product of copper and tungsten mining.
Orthophosphates	μg/L	ND - 20.0	2.7	UR	NE	Erosion of naturally occurring deposits.
Potassium	mg/L	ND - 3.5	1.8	UR	NE	Erosion of naturally occurring deposits.
Turbidity	NTU	0.2 - 0.8	0.1	UR	NE	Erosion of naturally occurring deposits.
TSS (Distribution System)	mg/L	ND - 0.7	0.1	UR	NE	Suspended material from soil runoff.
Vanadium	μg/L	ND - 2.2	ND	UR	NE	Naturally occurring.
VOCs						
Bromoform	μg/L	ND - 2.7	0.001	UR	NE	By-product of drinking water disinfection.
Bromodichloromethane	μg/L	ND - 14.4	2.4	UR	NE	By-product of drinking water disinfection.
Chloroform	μg/L	ND - 61.1	7.2	UR	NE	By-product of drinking water disinfection.
Dibromochloromethane	μg/L	0.05 - 4.4	0.5	UR	NE	By-product of drinking water disinfection.

1/cm: Reciprocal centimeters

AL (Action Level): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements a water system must follow. CFU/100 ml: Colony-forming units per 100 milliters

CU: Color unit

EPA: Environmental Protection Agency

FDA: Food and Drug Administration

HAA5s: Haloacetic acids.

mcl (Maximum Contaminant Level): The highest level of a contaminant in drinking water below which there is no known or expected risk to health. mciG (Maximum Contaminant Level Goal): Goal for highest allowable limit of contaminant.

MFL: Millions of fibers per liter

mRDL (Maximum Residual Disinfectant Level): The max residual allowable for chlorine added to drinking water for disinfection purposes. mg/L: Milligrams per liter, or parts per million (ex. 1 minute in 2 years)
MPN/mL: Most probable number per milliliter

NA: Not applicable ND: None detected NE: None established ng/L: Nanograms per liter, or parts per trillon (ex. 1 minute in 2 million

years) NTU (Nephelometric Turbidity Units): A measure of water clarity. pCI/L: Picocuries per liter

pg/L: Picograms per liter, or parts per quadrillion (ex. 1 minute in 2 billion

years) Range: Values shown are a range of measured values. Single values indicate a single measured value.

SS: Secondary Standard

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

TTHMs: Total trihalomethanes TDS: Total dissolved solids

TOC: Total organic carbon TON: Threshold odor number

TSS: Total suspended solids

µmhos/cm: microohms per centimeter

µg/L: Micrograms per lifer, or parts per billion (ex. 1 minute in 2,000 years). UR: Unregulated at this time

UV-254: Ultraviolet light measured at a wavelength of 254 1/cm.

# Non-Detect 2020 Data

The following contaminants were tested for in our water system but were not detected. For certain parameters, EPA and/or the state requires monitoring less than once per year because concentration levels are most likely to change slowly. Results in this table were collected by Jordan Valley Water Conservancy District during 2020 unless otherwise noted.

Primary Inorganics that were sa	mpled for, but al	Il results were "Non-Detect" or "None Detected"					
Antimony	ND	Discharge from petroleum refineries, fire retardants, ceramics, electronics, and solder.					
Asbestos	ND	Decay of asbestos cement in water mains; erosion of natural deposits (Data is from 2014 sample).					
Beryllium	ND	Discharge from metal refineries and coal burning factories.					
Cadmium	ND	Corrosion of galvanized pipes; erosion of natural deposits.					
Mercury	ND	Erosion of naturally occurring deposits and runoff from landfills.					
Secondary Inorganics that were sampled for, but all results were "Non-Detect" or "None Detected"							
Odor	ND	Various sources. (Data is from 2018 sample).					
Silver	ND	Erosion of naturally occurring deposits.					
Zinc	ND	Erosion of naturally occurring deposits.					
Unregulated Parameters that w	ere sampled but	all results were "Non-Detect" or "None Detected"					
Alkalinity, Hydroxide	ND	Naturally occurring. (Data is from 2019 sample).					
Chloropicrin	ND	Antimicrobial, fungicide chemical compound (Data is from 2014 sample).					
Cobalt	ND	Erosion of naturally occurring deposits (Data is from 2018 sample).					
Chromium VI	ND	Industrial runoff and naturally occurring (Data is from 2011 sample).					
Dioxin	ND	Industrial discharge from factories. (Data is from 2009 sample).					
Oll & Grease	ND	Petroleum hydrocarbons can either occur from natural underground deposits or from man made lubricants. (Data is from 2016 sample).					
Silica (Silicon Dioxide)	ND	Erosion of naturally occurring deposits.					
Pesticides/PCBs/SOCs that wer	e sampled but al	I results were "Non-Detect" or "None Detected"					
All other Parameters	ND	Various sources.					
VOCs							
All other Parameters	ND	Various sources.					
Radiological							
Radon	ND	Naturally occurring in soil.					
Disinfectants/Disinfectant By-products that were sampled but all results were "Non-Detect" or "None Detected"							
Bromate	ND	By-product of drinking water disinfection.					
Protozoa (Sampled at source w	3.6						
Cryptosporidium	ND	Parasite that enters lakes and rivers through sewage and animal waste. (Data is from 2017 sample).					

# **UCMR Appendix 2020 Data**

The table below lists all of the parameters in the drinking water detected by Jordan Valley Water Conservancy District or its suppliers in the drinking water during the calendar year of this report. The presence of these parameters in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of this report. For certain parameters, EPA and/or the State requires monitoring at a frequency less than once per year because the concentrations do not change frequently.

		2020	2020	MONITORING CRITERIA		
	UNITS	RANGE	AVERAGE	MCL	MCLG	LIKELY SOURCE(S)/COMMENTS
UNREGULATED PARA	AMETERS					
alpha-BHC	μg/L	ND	ND	UR	NE	
Chlorpyrifos	μg/L	ND	ND	UR	NE	
Dimethipin	μg/L	ND	ND	UR	NE	
Ethoprop	μg/L	ND	ND	UR	NE	
Merphos-Oxone	μg/L	ND	ND	UR	NE	
Oxyfluorfen	μg/L	ND	ND	UR	NE	
Permethrin	μg/L	ND	ND	UR	NE	
Profenofos	μg/L	ND	ND	UR	NE	
Tebuconazole	μg/L	ND	ND	UR	NE	
Butylated Hydroxy- anisole	μg/L	ND	ND	UR	NE	The Unregulated Contaminant Monitoring Rule (UCMR) is a monitoring program mandated by EPA. It requires public water systems to
Quinoline	μg/L	ND	ND	UR	NE	monitor various sites every three (3) years for
O-Toluidine	μg/L	ND	ND	UR	NE	different parameters selected by EPA. This
n-Butanol	μg/L	ND	ND	UR	NE	rule collects occurrence data on parameters that EPA is considering for regulation.
2-Methoxyethanol	μg/L	ND	ND	UR	NE	Sometimes EPA includes parameters that
2-Propen-1ol (Aliyi alcohol)	μg/L	ND	ND	UR	NE	already have an MCL but they would like to know the occurrence of it at significantly
Germanium	μg/L	ND	ND	UR	NE	lower levels than the current analytical method allows. These numbers represent
Manganese	μg/L	ND - 4.1	2.2	UR	NE	samples taken during the monitoring period
HAA5	μg/L	2.2 - 39.6	26.2	UR	NE	which began in 2019 and concluded in 2020.
HAA6Br	μg/L	2.2 - 9.0	6.3	UR	NE	
HAA9	μg/L	4.1 - 47.5	32.0	UR	NE	
total microcystins	μg/L	ND	ND	UR	NE	
microcystin-LA	μg/L	ND	ND	UR	NE	
microcystin-RR	μg/L	ND	ND	UR	NE	
microcystin-LF	μg/L	ND	ND	UR	NE	
microcystin-YR	μg/L	ND	ND	UR	NE	
microcystin-LR	μg/L	ND	ND	UR	NE	
microcystin-LY	μg/L	ND	ND	UR	NE	
nodularin	μg/L	ND	ND	UR	NE	
cylindrospermopsin	μg/L	ND	ND	UR	NE	
anatoxin-a	μg/L	ND	ND	UR	NE	

# Message from EPA

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 EPA's Safe Drinking Water Hotline at (800) 426-4791, or visiting www.epa.gov.

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.

## Cryptosporidium

Cryptosporidium is a naturally occurring, microscopic organism that may enter lakes and rivers from the fecal matter of humans or infected domestic and wild animals. When healthy adults are exposed to Cryptosporidium through the food or water they ingest, it can cause diarrhea, fever, and stomach pains. For individuals with compromised immune systems, exposure to Cryptosporidium may pose a more serious health threat. We are committed to providing protection against Cryptosporidium and other microorganisms by using a multi-barrier treatment approach. Although we are already meeting all EPA Cryptosporidium requirements with existing facilities and technologies, we will continue to pursue new technologies that may provide improved protection.

EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking water Hotline at (800) 426-4791, or by visiting www.epa.gov.

### Radon

Radon is a coloriess, odoriess gas found naturally in soil. While it can be present in drinking water obtained from underground sources, it is not typically a concern for water from surface sources such as lakes and rivers. EPA estimates radon in drinking water contributes less than two percent to the total radon levels found in air (radon in the air is the most likely source for health concerns). Radon in water escape into the air when showering or cooking. The amount of radon present in water provided by Jordan Valley Water (as listed in the water quality data table) is not considered a health threat.

### Lead

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead enters drinking water primarily from materials and components associated with service lines and home plumbing. We are committed to providing high-quality drinking water, but cannot control the variety of materials used in residential plumbing. If you're concerned that your plumbing may be causing elevated lead and copper levels, contact us at (801) 446-2000 for more information. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is also available from EPA at (800) 426-4791, or epa.gov/safewater/lead.

