

# KEEP IT PURE™

From your Mountains

# > to your Tap

## Salt Lake City Department of Public Utilities Water Quality Report 2019

PWSID# UTAH 18026

**OUR PRIMARY GOAL** at Salt Lake City Department of Public Utilities (SLC Public Utilities) is to always deliver the best drinking water possible. This means water that meets and exceeds all state and federal regulations. Federal law requires regular updates of these rules, and SLC Public Utilities will continue to support and contribute to ongoing research efforts with the United States Environmental Protection Agency (EPA), state and local agencies, and universities. Our community's health and safety are our top priorities. If you have any questions or concerns about your drinking water, we invite you to contact our office.

¡Atención! El informe contiene información importante sobre la calidad del agua en su comunidad. Tradúzcalo o hable con alguien que lo entienda bien.

This Consumer Confidence Report (CCR) is a snapshot of last year's (2018) water quality data. The report includes details about where your water comes from, what it contains, and how it compares to the United States EPA and State of Utah Division of Drinking Water (Utah DDW) standards. SLC Public Utilities is committed to accuracy and transparency in providing this information.

### Community Participation

We are committed to building trust with our community. We invite you to engage with us on our social media sites: [www.facebook.com/slcgu](https://www.facebook.com/slcgu) and <https://twitter.com/slcgu>. You may also contact Holly Mullen, Communications and Engagement Manager, for information at [holly.mullen@slcgov.com](mailto:holly.mullen@slcgov.com). We encourage your participation in decisions that affect our community's drinking water. The SLC Public Utilities Advisory Committee (PUAC) meets the fourth Thursday of each month at 7:30 a.m. in our office, 1530 South West Temple. We welcome you to these open meetings. Please note, the PUAC generally does not meet during the summer months. Find updates and more information at [www.slc.gov/boards/boards-commissions/public-utilities-advisory-committee](http://www.slc.gov/boards/boards-commissions/public-utilities-advisory-committee).

### Water Assist Program

We recognize paying utilities bills may be an economic hardship for some customers. SLC Public Utilities, in partnership with the Salt Lake City Chapter of the Salvation Army (which administers the program), offers Project Water Assist for Salt Lake City customers who qualify for financial aid to pay their utility bills. For assistance, a customer must qualify at 150 percent of poverty level and/or have a family member who meets one or more of the following criteria: is age 60 or older; has a disability; or who qualifies for the Salt Lake County Tax Abatement Program. To learn more about the program, please visit [www.slcgov.com/utilities](http://www.slcgov.com/utilities) or [www.saltlakecity.salvationarmy.org](http://www.saltlakecity.salvationarmy.org). If you would like to donate to Project Water Assist, you can check the box that appears on your utility bill.

### Conservation, Weather, and the Future of Water Supply in Utah

We are serious about protecting our source waters as the first stage of treatment. Clean water at the start means higher quality water from your tap. We regularly monitor our source waters and prepare source protection plans. For several years, our "Keep It Pure" campaign has helped to educate the community on the value of protecting our watershed and water resources. Please help us maintain good water quality by protecting your culinary drinking water watershed. For more information, visit [www.slcgov.com/utilities](http://www.slcgov.com/utilities).

The winter of 2018/2019 produced above average snow accumulation and stream flows, but was preceded by several years of drought. We are engaged with many stakeholders to understand and prepare for potential climate change scenarios. Regardless of snow totals, spring runoff, or supply levels, please remember: **Conservation is always the best practice.**

  
Mountains to your Tap



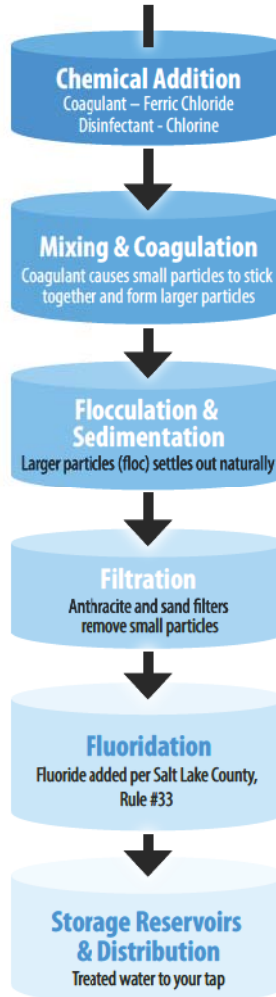
## Where does our water come from? How is it treated?

Multiple sources of water feed our system. We also have built redundancy into our system to avoid disruption in service. Our source waters include mountain streams, surface water reservoirs, and a network of groundwater wells and springs. SLC Public Utilities owns and operates three surface water treatment plants and purchases water from the Metropolitan Water District of Salt Lake & Sandy. We typically use our network of wells in the summer months to meet high demand. Because of our multiple sources and treatment facilities, water in our distribution system is blended from these sources. Also, the sources may vary throughout the year depending on supply and demand. To see a map of our service area, visit [www.slcgov.com/utilities](http://www.slcgov.com/utilities).

**SURFACE WATER.** Our primary source waters are from mountain streams including City Creek, Parley's Creek, Big Cottonwood Creek, and Little Cottonwood Creek, which are in the protected watersheds located north and east of Salt Lake City in the Wasatch Mountains. Salt Lake City Ordinances 17.04 and 17.08 were adopted to protect these mountain streams from pollution. To see a map of our protected watershed area, visit [www.slcgov.com/utilities](http://www.slcgov.com/utilities). In addition, we have invested in and receive treated water from our wholesale water supplier, Metropolitan Water District of Salt Lake and Sandy (MWDSL). Sources of this water include the Provo, Duchesne, and Weber Rivers, stored in the Jordanelle and Deer Creek reservoirs. Like many public water systems around the country, the surface water treatment for SLC Public Utilities uses a multi-step treatment process, including coagulation, flocculation, sedimentation, filtration, and disinfection. The primary disinfectant used is chlorine. After the water leaves the treatment plants, SLC Public Utilities routinely collects samples throughout the distribution system to monitor the quality of water as it travels from the source to your tap.

**GROUNDWATER.** SLC Public Utilities' wells and springs are spread across the valley from Cottonwood Heights to the mouth of City Creek Canyon. The quality of our groundwater is affected by what happens on the ground above. Salt Lake City zoning ordinance 21A.34.060 was adopted to help protect our groundwater resources. In addition, Salt Lake County Ordinance 9.25 helps protect groundwater resources outside of the Salt Lake City boundaries. Never dispose of chemicals or hazardous materials on the ground. These materials can migrate through the soils and impact groundwater. Because of SLC Public Utilities' excellent groundwater resources, groundwater does not require special treatment. Similar to the filtration process of surface water, groundwater is continually filtered through a natural process as it passes through the subsurface geology. SLC Public Utilities routinely monitors the quality of the groundwater and remains a concerned and active stakeholder for sites where groundwater contamination has been identified. As such, we work with the Utah Department of Environmental Quality, the EPA, and others to protect our citizens and their interests.

### Source Water Mountain Streams & Reservoirs



## Drinking Water Contaminants

Drinking water sources include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over land or through the ground, it dissolves naturally occurring minerals and can pick up contamination from animal or human activity. Contaminants include microbial contaminants (viruses and bacteria), inorganic contaminants (salts and metals), pesticides and herbicides, organic chemicals (synthetic and volatile organic chemicals) and radioactive contaminants. The EPA prescribes regulations limiting the amount of certain contaminants in public water systems. We support these regulations and work daily to provide you with the best possible drinking water.

Your drinking water is treated and tested for more than 170 individual contaminants to ensure it meets all state and federal standards. Last year we conducted more than 20,000 tests. The state allows us to monitor for some contaminants less often than annually because their concentrations do not change frequently. Some of our data, though representative, is more than one year old. The table provides a listing of some compounds we analyze. Potential contaminants not detected are not listed.

We also take part in federal programs aimed to assist with the development and refinement of regulatory levels for possible contaminants. In 2013-2014 we participated in the EPA's Unregulated Contaminants Monitoring Rule. In addition, we completed a two-year sampling program in 2016 under the EPA's Long-Term 2 Enhanced Surface Water Treatment Rule (LT2). This allows us to monitor for cryptosporidium and other disease-causing microorganisms in our source waters. Results from these programs have been as expected and have not raised concerns. Last year (2018) through this year (2019) we are also participating in EPA's 4th Unregulated Contaminants Monitoring Rule program.

## Health Alert

Drinking water, including bottled water, may reasonably be expected to contain trace amounts of some contaminants. The presence of contaminants in drinking water does not necessarily indicate a health risk. More information about contaminants and potential health effects can be obtained by calling EPA's Safe Drinking Water Hotline at 1-800-426-4791. Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised people, such as those with cancer undergoing chemotherapy, those who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly people, and infants can be particularly at risk for infections. If you fall within any of these categories, please seek advice about drinking water from your health care providers.

## Cross Connection

Through our cross-connection control program, we provide oversight and monitor connections to our system to prevent water back-flowing from residential, commercial, or industrial consumers into our distribution system. A cross-connection is any actual or potential connection

between the water you want to drink with other sources of water that may be contaminated. You can do your part by monitoring your own water use and connections within your home or business. For more information regarding cross-connection, please visit [www.deq.utah.gov](http://www.deq.utah.gov).

### TYPICAL RESIDENTIAL CROSS CONNECTIONS:



Hose Bibs



Toilet  
Ball-Cocks



Lawn Irrigation



Swimming Pools



Hot Tubs

# 2019 Water Quality Report\* (2018 Data)

TREATED SURFACE WATER SOURCES									
	MCL or TT Standards*	Parleys Water Treatment Plant	Big Cottonwood Water Treatment Plant	City Creek Water Treatment Plant	MWDSLS Little Cottonwood Water Treatment Plant	MWDSLS Point of the Mountain Water Treatment Plant	Jordan Valley Water Conservancy District (JVWCD)	Range on Salt Lake City Wells	Source of Contaminant
NATIONAL PRIMARY DRINKING WATER STANDARDS*									
Arsenic	10 ppb	ND	ND	ND	ND	ND	1.1	ND - 1.27	Erosion of natural deposits
Barium	2000 ppb	77.70	39.40	24.30	59.0	65.5	46.0	16.3 - 116	Erosion of natural deposits
Chromium	100 ppb	ND	ND	ND	5.39	6.33	0.58	ND - 6.19	Discharge from steel and pulp mills
Fluoride <sup>b</sup>	4000 ppb	680	760	710	641	506	700	ND - 1090	Erosion of natural deposits and added fluoride
Nickel	100 ppb	ND	ND	ND	2.01	2.15	0.24	ND - 6.87	Erosion of natural deposits
Nitrate	10 ppm	0.09	0.24	0.18	0.24	0.22	0.90	0.23 - 5.27	Fertilizer runoff, septic tanks
Selenium	50 ppb	ND	ND	ND	ND	ND	0.40	ND	Mine discharge
TURBIDITY* (Clarity)									
Finished Water Annual Average	NTU	0.04	0.02	0.02	0.03	0.03	0.03	0.12 - 0.81	Soil runoff
RADIONUCLIDES (pCi/L)									
Gross Alpha	15 pCi/L	ND	ND	ND	ND	0.6	2.2	1.6 - 2.3	Erosion of natural deposits
Radium 228	5 pCi/L	ND	ND	ND	ND	ND	0.6	ND - 0.57	Erosion of natural deposits
DISTRIBUTION SYSTEM COMPLIANCE									
Microbials	Presence/Absence	# Samples	% positive	Highest Monthly %					
<i>E. coli</i>	0%	2,998	0%	0%					Feces of humans and animals
Total Coliform	<5%	2,998	0.23%	0.84%					Naturally occurring and feces of humans and animals
DISINFECTION BY-PRODUCTS									
		SLC Avg <sup>b</sup>	SLC Max	SLC Min	MWDSLS LCW Avg	MWDSLS POMW Avg	JVWCD Avg		
Total Trihalomethanes	80 ppb	41	69	13	19	35	18	--	By-product of chlorination
Total Haloacetic Acids	60 ppb	32	52	9	14	30	13	--	By-product of chlorination
LEAD AND COPPER SAMPLING AT HIGH-RISK RESIDENTIAL WATER TAPS*									
LEAD/COPPER	Action Level <sup>d</sup>	# Samples Before Flushing		90th Percentile Before Line Flushing <sup>e</sup>		90th Percentile After Line Flushing <sup>e</sup>			
Lead	15 ppb	56		3.58		1.46			Corrosion of household plumbing
Copper	1300 ppb	56		432.5		78.35			Corrosion of household plumbing
NATIONAL SECONDARY DRINKING WATER STANDARDS*									
	Secondary MCL								
Aluminum	200 ppb	ND	ND	ND	ND	10.6	6.5	ND - 68.3	Treatment chemicals
Chloride	250 ppm	115.0	33.4	9.72	31.9	29.7	26.0	17.3 - 194	Erosion of natural deposits
Iron	300 ppb	ND	ND	ND	119	131.4	23.0	ND	Erosion of natural deposits
Manganese	50 ppb	ND	ND	ND	--	--	6.0	ND - 2.49	Erosion of natural deposits
pH (in Units)	6.5 - 8.5	7.7	7.7	8.1	7.81	8.08	7.6	7.0 - 7.86	Erosion of natural deposits
Sulfate	250 ppm	32.7	39.3	11	34.3	37.5	49	32.3 - 300	Erosion of natural deposits
Total Dissolved Solids (TDS)	500 ppm	452	254	190	198	221	225	200 - 770	Erosion of natural deposits
Zinc	500 ppb	ND	ND	ND	--	--	ND	ND - 23.8	Erosion of natural deposits
ADDITIONAL DATA									
Alkalinity as CaCO <sub>3</sub>	ur-ppm	205	122	213	101.2	116	100	120 - 272	Erosion of natural deposits
Bromide	ur-ppm	ND	ND	ND	ND	ND	0.01	ND	Erosion of natural deposits
Calcium	ur-ppm	86.7	40.6	149	--	--	38.0	89.4 - 373	Erosion of natural deposits
Hardness as CaCO <sub>3</sub>	ur-ppm	281	164	222	113.6	130.3	154	158 - 541	Erosion of natural deposits
grains/gallon	calculated	16.4	9.6	13.0	6.6	7.6	9.0	9.24 - 31.63	Erosion of natural deposits
Non-Carbonate	calculated	76	42	9	12.4	14.2	54	38 - 269	Erosion of natural deposits
Magnesium	ur-ppm	15.7	15.1	17.8	--	--	14	12.7 - 52.3	Erosion of natural deposits
Molybdenum	ur-ppb	ND	3.35	ND	1.72	1.12	0.3	ND - 2.76	Erosion of natural deposits
Phosphate	ur-ppb	ND	ND	ND	ND	ND	ND	ND	Erosion of natural deposits
Potassium	ur-ppm	1.36	ND	ND	--	--	1.5	1.02 - 3.83	Erosion of natural deposits
Sodium	ur-ppm	56.4	20.3	5.75	21.9	11.9	13.2	11.4 - 73.3	Erosion of natural deposits
Specific Conductance	µS/cm	733	408	399	390	411	381	370 - 1310	Erosion of natural deposits
Total Organic Carbon (TOC)	ur-ppm	1.56	ND	ND	1.72	2.12	1.8	ND - 1.62	Decomposition of organic material
UV-254	ur-1/cm	0.01	ND	0.01	0.02	0.03	0.03	ND - 0.0152	Decomposition of organic material

\* SLC Public Utilities sets a goal of 0.1 NTU turbidity. All SLC Water Treatment Plants received the Partnership for Safe Water 15-Year Director's Award for superior water quality.

## HOW TO READ THE CHART

Our water is routinely tested. The chart lists the most recent test results for the facilities listed and indicates the most likely source of the contaminant. The well data is a range of lowest and highest levels for wells.

**MCL** Federal Maximum Contaminant Level: highest level of a contaminant that is allowed in drinking water

**ND** Non detected: less than the analytical method can see

**NTU** Nephelometric Turbidity Units (turbidity is cloudiness)

**pCi/L** Picocuries per Liter (radioactivity unit)

**ppm** Parts per million (mg/L, 1 penny in \$10,000)

**ppb** Parts per billion (ug/L, 1 penny in \$10 million)

**TT** Treatment Technique

**ur** Unregulated with no EPA standard set

**µS/cm** Micro Siemens/centimeter

- Not Analyzed

\* The US-EPA sets regulatory limits for the amounts of certain contaminants in water provided by public water systems. For more information visit [www.epa.gov/dwstandardsregulations](http://www.epa.gov/dwstandardsregulations).

<sup>b</sup> Highest monthly average or annual average.

<sup>c</sup> Most recent results for lead and copper are from 2018; additional sampling will be performed in 2021.

<sup>d</sup> Exceedence of the 90th Percentile Action Level for Lead and Copper would require additional actions to be taken.

\* 90% of the results are less than equal to this concentration.



## AFFILIATIONS

SLC Public Utilities is a member of American Water Works Association, American Water Research Foundation, Association of Metropolitan Water Agencies, American Water Resources Association, Partnership for Safe Water, Utah Water Quality Alliance, and the Salt Lake County Stormwater Coalition.

## RESOURCES

Information about contaminants and potential health effects, testing methods, and steps you can take to minimize exposure can be obtained by calling EPA's Safe Drinking Water Hotline at 1-800-426-4791, or [www.epa.gov/ground-water-and-drinking-water](http://www.epa.gov/ground-water-and-drinking-water).

The Utah DDW and the EPA have excellent websites regarding lead in drinking water at <https://deq.utah.gov/division-drinking-water> and [www.epa.gov/your-drinking-water/basic-information-about-lead-drinking-water](http://www.epa.gov/your-drinking-water/basic-information-about-lead-drinking-water).

For more information on fluoride in drinking water, please visit Salt Lake County Health Department at <https://slco.org/health/water-quality/drinking-water/> or 385.468.4100.

## SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES CONTACT INFORMATION

SLC Public Utilities Customer Service:  
801-483-6900

SLC Public Utilities 24-hour Emergency:  
801-483-6700

Water Quality Division  
801-483-6832 or 801-483-6765

Webpage  
[www.slcgov.com/utilities](http://www.slcgov.com/utilities)

## ADDITIONAL CONTACTS

Utah Division of Drinking Water:  
801-536-4200; [www.deq.utah.gov/Divisions/ddw](http://www.deq.utah.gov/Divisions/ddw)

Salt Lake County Health Department:  
385-468-4100; [www.slco.org/health](http://www.slco.org/health)

EPA Safe Drinking Water Hotline:  
800-426-4791

## Frequently Asked Questions

### IS FLUORIDE ADDED TO SLC PUBLIC UTILITIES WATER SUPPLY?

In the year 2000, residents of Salt Lake County voted to fluoridate drinking water. As a result, since October 2002 Salt Lake County Health Department Regulation #33 has mandated public water suppliers, such as SLCDPU, to fluoridate the water delivered to their customers. The purpose of Regulation #33 is to promote public health through the protection and maintenance of dental health. Salt Lake County Health Department is responsible for oversight of this regulation.

Water picks up a variety of minerals as it flows through the ground and over geologic features; therefore, fluoride is naturally present in our water sources. However, as these levels are below the regulatory mandate, SLCDPU adds additional fluoride to our water supply to meet the Health Regulation #33 requirement of 0.7 milligrams per liter (mg/L).

There are multiple safeguards and redundancies in place to protect against an accidental overfeed of fluoride. The equipment used to deliver fluoride to the drinking water is carefully monitored, which includes regular inspections, alarms, back-up power, and server redundancy.

For more information, please visit [www.slcgov.com/utilities](http://www.slcgov.com/utilities) or contact the Salt Lake County Health Department at 385-468-4100.

### IS LEAD A CONCERN IN SALT LAKE CITY'S WATER?

Lead in drinking water is a topic of important national discussion. Elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily caused by leaching from plumbing materials and components associated with service lines and home plumbing. SLC Public Utilities removed lead pipes from the drinking water distribution system many years ago, but we do not control the materials used in household plumbing components. If your water has been sitting in your in-home plumbing lines 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, please contact us for information on how you can have your water tested.

Under the EPA Lead and Copper Rule ([www.epa.gov/dwreginfo/lead-and-copper-rule](http://www.epa.gov/dwreginfo/lead-and-copper-rule)), public water systems such as SLC Public Utilities take part in annual to triennial lead and copper sampling and analysis from consumers' homes. SLC Public Utilities is on the three-year schedule. Our 2018 results for lead and copper were very similar to our historical levels and in line with those across the state. Results indicate concentrations of lead and copper are below the EPA action levels (refer to the accompanying table). If you are interested in taking part in the next round of lead and copper sampling, to be completed in summer of 2021, please contact SLC Public Utilities Water Quality Division for information.

### 800 SOUTH - 500 EAST ARTESIAN WELL AND LIBERTY PARK ARTESIAN DRINKING FOUNTAIN.

Although not part of the SLC Public Utilities drinking water system, the 800 South 500 East artesian well and the Liberty Park artesian drinking fountain are routinely monitored by our staff. These natural water sources meet federal and state requirements for drinking water. However, low levels of perchlorate, a compound that may be naturally occurring or related to explosives manufacturing, have been detected in the 800 South 500 East artesian well. The levels detected are below what the EPA considers a concern and this compound is not currently regulated in Utah. For more information on the water quality, please visit [www.slc.gov/utilities/artesian-wells-and-springs](http://www.slc.gov/utilities/artesian-wells-and-springs). If you have questions about the artesian well parks, please visit [www.slc.gov/parks](http://www.slc.gov/parks).

For questions on this report:

Marian L. Rice

Water Quality & Treatment Administrator  
Salt Lake City Department of Public Utilities  
801-483-6700 (24-hour customer service number)



Public  
Utilities

## Stormwater

We monitor the quality of our stormwater discharges to ensure that stormwater is as clean as possible before discharging to our creeks and rivers. Please help us in this effort by keeping plastic bottles, leaves, grass, and other pollutants out of storm drains. If you observe a clogged storm drain or illegal discharge, please report the incident to 801-483-6700 (SLC Public Utilities 24-hour dispatch) or 801-580-6681 (Salt Lake County Health Department 24-hour hotline).



We All Live Downstream  
[stormwatercoalition.org](http://stormwatercoalition.org)