WATER TEST RESULTS

Unfiltered tap water vs. reverse osmosis (RO) • Hideout, Utah

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Sample location	Kitchen sink, Hideout, Utah (Jordanelle Special Service District water)	**Collected**	October 19, 2026
Samples	1. Unfiltered tap (after the home's water softener) 2. After the kitchen RO system	**Lab reports**	JHBZH6 (tap) EHQK9D (RO)

Key findings

- **Nothing in the tap water exceeded a federal legal limit (EPA MCL).**
- **Five results exceeded health guidance levels**, the most protective benchmarks used by public health agencies: all four trihalomethanes (chlorination byproducts) and arsenic.
- **The RO system removed every contaminant of concern to non-detectable levels** and cut total dissolved solids by about 98%, from 495 to 9.73 ppm. RO water is slightly acidic (pH 6.1).
- **High sodium (152 ppm) comes from the water softener**, which swaps hardness minerals for sodium. RO brought it to 2.15 ppm.
- **Sulfate (267 ppm) was slightly above EPA's 250 ppm taste guideline**, which is not a health limit. RO removed it.
- **Cadmium was not detected** in either sample.

Above health guidance (highlighted)

Analyte	Unfiltered tap	After RO	EPA limit	Health guidance
Total trihalomethanes (THMs)	**14.2 ppb**	Not detected	80 ppb	—
Chloroform	**8.74 ppb**	Not detected	Part of THM total	0.221 ppb
Dibromochloromethane	**2.5 ppb**	Not detected	Part of THM total	0.1 ppb
Bromodichloromethane	**2.2 ppb**	Not detected	Part of THM total	0 ppb
Bromoform	**0.731 ppb**	Not detected	Part of THM total	0 ppb
Arsenic	**2.06 ppb**	Not detected	10 ppb	0 ppb

Other metals and disinfectants detected

Analyte	Unfiltered tap	After RO	EPA limit	Health guidance
Antimony	3.95 ppb*	Not detected	6 ppb	Below
Uranium	0.147 ppb*	Not detected	30 ppb	Below
Nickel	11.8 ppb	Not detected	—	Below
Zinc	136 ppb	12.6 ppb	5,000 ppb (guideline)	Below
Copper	2.4 ppb*	2.84 ppb*	1,300 ppb (action level)	Below
Iron	24 ppb*	Not detected	300 ppb (guideline)	Below
Boron	32.8 ppb	7.91 ppb*	—	Below
Fluoride	0.259 ppm	Not detected	4 ppm	Below
Chlorine, free / total	0.25* / 0.28* ppm	Not detected	4 ppm (disinfectant max.)	—
Cadmium	Not detected	Not detected	5 ppb	—

General water quality

Analyte	Unfiltered tap	After RO	EPA limit	Health guidance
Total dissolved solids	495 ppm	9.73 ppm	500 ppm (guideline)	—
Sodium	152 ppm	2.15 ppm	—	—
Sulfate	267 ppm	0.423 ppm*	250 ppm (guideline)	Below
Chloride	57.2 ppm	1.58 ppm	250 ppm (guideline)	—
Silica	17.5 ppm	2.68 ppm	—	—
Hardness	ND (softened)	Not detected	—	—
pH	6.6	6.1	6.5–8.5 (guideline)	—
Turbidity	0.15 NTU	0.2 NTU	—	—

* Estimated: detected, but below the lab's reporting limit. ppb = parts per billion; ppm = parts per million. EPA limit = enforceable Maximum Contaminant Level unless marked guideline (non-enforceable secondary standard), action level or disinfectant maximum. Health guidance = Tap Score's Health Guidance Level, a non-enforceable benchmark based on the most protective level used among public health agencies. Only analytes detected in at least one sample are listed, plus cadmium. All other tested metals, volatile organic compounds and microbial indicators were not detected.