

# Columbia Missouri Water and Light: 2015 Water Testing Results

## WATER QUALITY CONTROL ANALYSIS OF TREATED WATER

QUALITY MEASURE	CONCENTRATION (milligrams per liter)
pH	8.33 (pH units)
Alkalinity (Total)*	123
Phenolphthalein Alkalinity*	14
Total Hardness*	168
Calcium (as calcium carbonate)*	100
Magnesium (as calcium carbonate)*	71
Sulfate**	86.3
Total Dissolved Solids**	309
Fluoride**	0.58
Free Chlorine	3.10
Total Chlorine	3.80
Chloride**	29.9
Iron**	0.12
Manganese**	0.02
Silica	21.4

\*State regulations require these tests to be run for operation information

\*\*Secondary standards

<Means less than — Equipment used cannot measure the contaminant below this level.

CONTAMINANT	CONCENTRATION (milligrams per liter)	MAXIMUM CONTAMINANT LEVEL (milligrams per liter)
<b>VOLATILE ORGANIC CHEMICALS:</b>		
Trichloroethylene	NONE DETECTED	0.005
Tetrachloroethylene	NONE DETECTED	0.005
Carbon tetrachloride	NONE DETECTED	0.005
1,1,1-trichloroethane	NONE DETECTED	0.20
1,2-dichloroethane	NONE DETECTED	0.005
Vinyl Chloride	NONE DETECTED	0.002
Benzene	NONE DETECTED	0.005
Dichloromethane	NONE DETECTED	0.005
Monochlorobenzene	NONE DETECTED	0.1
1,1-dichloroethylene	NONE DETECTED	0.007
Cis-1,2-dichloroethylene	NONE DETECTED	0.7
Trans-1,2-dichloroethylene	NONE DETECTED	0.1

### INORGANIC CHEMICALS:

Asbestos	NONE DETECTED	7 million fibers per liter
Arsenic	NONE DETECTED	0.01
Barium	0.123	2
Cadmium	NONE DETECTED	0.005
Chromium	0.001	0.1
Lead	0.0026	Treatment technique, Action level = 0.015
Mercury	NONE DETECTED	0.002
Nitrate (as Nitrogen)	0.03	10
Selenium	NONE DETECTED	0.05
Nitrite (as Nitrogen)	NONE DETECTED	1.0
Fluoride	0.58	4.0
Aluminum**	NONE DETECTED	0.05
Antimony	NONE DETECTED	0.006
Sulfate	86.3	250
Copper**	0.040	Treatment technique, Action level = 1.3
Sodium**	29.3	No MCL, monitoring only

<b>CONTAMINANT</b>	<b>CONCENTRATION (milligrams per liter)</b>	<b>MAXIMUM CONTAMINANT LEVEL (milligrams per liter)</b>
<b>INORGANIC CHEMICALS CONTINUED:</b>		
Nickel	NONE DETECTED	0.1
Zinc**	1.95	5
Thallium	NONE DETECTED	0.002
Beryllium	NONE DETECTED	0.004
Cyanide	NONE DETECTED	0.2
<b>SYNTHETIC ORGANIC CHEMICALS:</b>		
TTHM	0.0499	0.080
Endrin	NONE DETECTED	0.002
Lindane	NONE DETECTED	0.0002
Methoxychlor	NONE DETECTED	0.04
Toxaphene	NONE DETECTED	0.003
2,4-D	NONE DETECTED	0.07
2,4,5-TP (silvex)	NONE DETECTED	0.05
Aldicarb	NONE DETECTED	0.003
Chlordane	NONE DETECTED	0.002
Dalapon	NONE DETECTED	0.2
Diquat	NONE DETECTED	0.02
Endothall	NONE DETECTED	0.1
Glyphosate	NONE DETECTED	0.7
Carbofuran	NONE DETECTED	0.04
Vydate	NONE DETECTED	0.1
Simazine	NONE DETECTED	0.004
PAHs	NONE DETECTED	0.0002
PCBs	NONE DETECTED	0.0005
Atrazine	NONE DETECTED	0.003
Heptachlor	NONE DETECTED	0.0004
Pentachlorophenol	NONE DETECTED	0.001
Picloram	NONE DETECTED	0.5
Dinoseb	NONE DETECTED	0.007
Alachlor	NONE DETECTED	0.002
Hexachlorocyclopentadiene	NONE DETECTED	0.05
2,3,7,8-TCDD	NONE DETECTED	0.00000003
HAA5	0.022	0.060

**MICROBIOLOGICAL CONTAMINANTS:**

Total coliforms	NONE DETECTED	No more than 5% of Total Number of samples may be positive
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**RADIONUCLIDES:  
(Picocuries per Liter)**

Radium	NONE DETECTED	5 picocuries per liter
Gross alpha	NONE DETECTED	15 picocuries per liter
Beta particle	6.6	4 mrem/yr 50 picocuries per liter
Uranium	0.48	20 ug/L
Radon	50.4	300