

Testing Results for Suburban Water Company

Suburban Water Company had no violations of drinking water regulations in 2016. Some of the results are more than one year old because of the monitoring schedules.

Regulated Contaminants	Collection Date	Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
BARIUM	2/20/2014	0.22	0.22	ppm	2	2	Discharge from metal refineries
CHROMIUM	2/20/2014	2	2	ppb	100	100	Discharge from steel and pulp mills
FLUORIDE	2/20/2014	0.26	0.26	ppm	4	4	Natural deposits; Water additive which promotes strong teeth.
NITRATE	2/2/2016	4.5	4.5	ppm	10	10	Runoff from fertilizer use
SELENIUM	2/20/2014	6.3	6.3	ppb	50	50	Erosion of natural deposits

Lead and Copper	Monitoring Period	90 th Percentile	Range (low/high)	Unit	AL	Sites Over AL	Typical Source
COPPER, FREE	2012 - 2014	0.56	0.013 - 1	ppm	1.3	0	Corrosion of household plumbing
LEAD	2012 - 2014	2.3	1.1 - 5.4	ppb	15	0	Corrosion of household plumbing

Radiological Contaminants	Collection Date	Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
COMBINED RADIUM (-226 & -228)	6/11/2013	1.1	1.1	PCI/L	5	0	Erosion of natural deposits

Secondary Contaminants-Non Health Based Contaminants-No Federal Maximum Contaminant Level (MCL) Established.	Collection Date	Highest Value	Range (low/high)	Unit	SMCL
ALKALINITY, TOTAL	2/20/2014	270	270	MG/L	300
CALCIUM	2/20/2014	95	95	MG/L	200
CHLORIDE	2/20/2014	25	25	MG/L	250
CONDUCTIVITY @ 25 C UMHOS/CM	2/20/2014	700	700	UMHO/CM	1500
CORROSIVITY	2/20/2014	0.26	0.26	LANG	0
HARDNESS, TOTAL (AS CaCO3)	2/20/2014	300	300	MG/L	400
MAGNESIUM	2/20/2014	15	15	MG/L	150
MANGANESE	2/20/2014	0.0023	0.0023	MG/L	0.05
PH	2/20/2014	7.5	7.5	PH	8.5
POTASSIUM	2/20/2014	0.62	0.62	MG/L	100
SILICA	2/20/2014	26	26	MG/L	50
SODIUM	2/20/2014	32	32	MG/L	100
SULFATE	2/20/2014	32	32	MG/L	250
TDS	2/20/2014	390	390	MG/L	500

Some of the system's water is produced by the Kansas City BPU (BPU). Their testing results are shown below and on the next page.

Regulated Contaminants	Collection Date	Water System	Highest Value	Result	Unit	MCL	MCLG	Typical Source
ATRAZINE	8/22/2016	KANSAS CITY BPU	0.1	0.1	ppb	3	3	Runoff from herbicide used on row crops
BARIUM	5/17/2016	KANSAS CITY BPU	0.1	0.1	ppm	2	2	Discharge from metal refineries
FLUORIDE	8/22/2016	KANSAS CITY BPU	0.82	0.71 - 0.82	ppm	4	4	Natural deposits; Water additive which promotes strong teeth.
NITRATE	5/17/2016	KANSAS CITY BPU	3.6	3.6	ppm	10	10	Runoff from fertilizer use
NITRATE-NITRITE	5/17/2016	KANSAS CITY BPU	3.6	3.6	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

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Secondary Contaminants	Collection Date	Water System	Highest Value	Result	Unit	SMCL
ALKALINITY, BICARBONATE	5/23/2012	KANSAS CITY BPU	240	240	MG/L	
ALKALINITY, CaCO3 STABILITY	5/17/2016	KANSAS CITY BPU	190	190	MG/L	
ALKALINITY, TOTAL	5/13/2015	KANSAS CITY BPU	190	190	MG/L	300
BICARBONATE AS HCO3	5/13/2014	KANSAS CITY BPU	200	200	MG/L	
CALCIUM	5/17/2016	KANSAS CITY BPU	75	75	MG/L	200
CHLORIDE	5/17/2016	KANSAS CITY BPU	26	26	MG/L	250
CONDUCTIVITY @ 25 C UMHO/CM	5/17/2016	KANSAS CITY BPU	25	25	UMHO/CM	1500
HARDNESS, TOTAL (AS CaCO3)	5/17/2016	KANSAS CITY BPU	290	290	MG/L	400
MAGNESIUM	5/17/2016	KANSAS CITY BPU	25	25	MG/L	150
METOLACHLOR	5/13/2015	KANSAS CITY BPU	0.051	0.051	ppb	
ORTHOPHOSPHATE	5/17/2016	KANSAS CITY BPU	0.18	0.18	MG/L	
PH	5/17/2016	KANSAS CITY BPU	8.2	8.2	PH	8.5
POTASSIUM	5/17/2016	KANSAS CITY BPU	6	6	MG/L	100
SILICA	5/17/2016	KANSAS CITY BPU	16	16	MG/L	50
SODIUM	5/17/2016	KANSAS CITY BPU	47	47	MG/L	100
STRONTIUM	5/17/2016	KANSAS CITY BPU	0.194	0.194	PCI/L	
SULFATE	5/17/2016	KANSAS CITY BPU	130	130	MG/L	250
TDS	5/17/2016	KANSAS CITY BPU	480	480	MG/L	500