Oklahoma City Utilities - Water Quality Summary 2015

DETECTED CONTAMINANTS	UNITS	IDEAL GOAL (EPA'S MCLG)	HIGHEST LEVEL ALLOWED (EPA'S MCL)	HEFNER WTP PWS ID 1020902	DRAPER WTP PWS ID 1020902B	OVERHOLSER WTP PWS ID 1020902C	COMPLIANCE	MAJOR SOURCES IN DRINKING WATER
Inorganic Compounds								
Fluoride[1]	ppm	4	4	Average level detected in most recent testing - 2015: 0.75	0.73	0.77	YES	Added during treatment for dental health or dissolved from natural deposits
Lead	ppb	0	AL = 15	Most recent systemwide distribution testing: June/July 2015 - 90th Percentile = <5.0			All Sites < AL YES	Corrosion of household plumbing; erosion of natural deposits
Barium	ppm	2	2	Highest level most recent testing - 2013: 0.052	0.057	0.032	YES	Discharge of Drilling Wastes; discharge from metal refineries; erosion of natural deposits
Copper	ppm	0	AL = 1.3	Most recent systemwide distribution testing: June/July 2015 - 90th Percentile = 0.079			All Sites < AL YES	Corrosion of household plumbing; erosion of natural deposits
Arsenic	ppb	0	10	Range detected in most recent testing - 2013: <2	<2	<2	YES	Erosion of natural deposits; runoff from orchards; runoff from electronics and glass production wastes
Nitrate-Nitrite[2]	ppm	10	10	Highest level: 0.314	0.250	0.234	YES	Runoff from fertilizer; leaching from septic tanks, sewage or erosion of natural deposits
Radiological								
Gross Alpha	pCi/L	0	15	Range detected in most recent testing - 2012: <2.229	<0.4744	<2.373	YES	Decay of natural and man-made deposits
Gross Beta	pCi/L	0	50	6.784	2.611	6.824		
Radium 226 + 228	pCi/L	0	5	<0.545	<0.495	0.980		
Uranium	ppb	0	30	<1	<1	<1		
Disinfection By-Products Stage 2 Rule Monitoring[3]								
Total Trihalomethanes[4]	ppb	0	80 (LRAA)	Most recent systemwide distribution testing 2014/2015 Highest Locational Running Annual Average (LRAA) 10401 W. Stanley Draper Dr (Draper) - 75.70 Range Detected: 4.72 - 85.57 Highest quarterly average (LRAA): 24.56	75.70	69.68	YES	By-product of drinking water disinfection
				Range detected: 4.72 - 38.85	49.00 - 83.78	53.62 - 85.57		
Haloacetic Acids[4]	ppb	0	60 (LRAA)	Most recent systemwide distribution testing 2014/2015 Highest Locational Running Annual Average (LRAA) 6400 N Westminster Rd (Draper) - 53.23 Range Detected: 2.51 - 63.90 Highest quarterly average (LRAA): 11.45	53.23	38.20	YES	By-product of drinking water disinfection
				Range detected: 2.51 - 19.20	20.10 - 63.90	16.40 - 48.60		
Bromate[5]	ppb	0	10 (RAA)	Highest quarterly average (RAA) - 1.76 Range detected - <8.75 - 24.6			YES	By-product of disinfection by ozone **Only Hefner Plant uses Ozone**
Precursor Removal								
Total Organic Carbon[6] **(TOC)**			TT = Ratio must be greater than or equal to 1.00 for compliance	Average of monthly ratios: 1.88	0.391	1.43	YES	Naturally occurring
				Monthly Ratio = (% TOC removed) divided by (% TOC removal required)				
Disinfection Residual								
Chloramines as Chlorine[7]	ppm	NA	MRDL: 4.0	Average readings: 3.67	3.43	3.20	YES	Water additive used to control microbes
			Range detected	2.10 - 4.50	2.70 - 3.90	2.01 - 4.32		
Microbiological								
Coliform Bacteria	CFUs % positive	0	Presence of Coliform bacteria in <5% of samples	2015 System-wide distribution testing Month having the highest % positive - No positive samples in 2015 Zero positive Coliform results in 3105 samples (0.00 % occurrence)			YES	**Naturally present in the environment - No Fecal Coliforms or E. Coli in 3105 tests in 2015.**
Clarity								
Turbidity	NTU % > 0.3	NA	TT = > 0.3 NTU in not more than 5% of samples	Monthly lowest % < 0.3 NTU: 100.0%	100.0%	100.0%	YES	Lime and/or calcium carbonate particles from softening efforts; soil runoff
				Highest single reading: 0.25	0.15	0.26		
Long Term 2 Enhanced Surface Water Treatment Rule								
Cryptosporidium[8]	cysts/L	0	NA	All source waters tested at less than 0.075 cysts/L (lowest risk category)			YES	Storm runoff, agricultural runoff and leaking sewage systems
Detected UCMR3 Analytes (2013)[9]								
				Average	**Range**	**More Info**		
Chlorate	ppb	NA	NA	36.4	<20.0 - 36.4	1 of 12 samples >20.0	NA	By-product of drinking water disinfection, making of dyes, explosives, matches, printing fabrics, herbicides, antiseptics, toothpastes and in paper pulp processing.
Hexavalent Chromium	ppb	NA	NA	0.141	<0.030 - 0.391	11 of 12 samples >0.030	NA	Naturally occurring. By-product of making steel and other alloys, plating, dyes and pigments, leather and wood preservation.
Total Chromium	ppb	100 (0.100 mg/L)	100 (0.100 mg/L)	0.428	<0.200 - 0.471	2 of 12 samples >0.200	YES	Naturally occurring. By-product of making steel and other alloys, plating, dyes and pigments, leather and wood preservation.
Molybdenum	ppb	NA	NA	2.76	<1.00 - 3.24	6 of 12 samples >1.00	NA	Naturally occurring. By-product of making steel and other alloys, lubricants, dyes and pigments, fertilizers.
Strontium	ppb	NA	NA	295	42.9 - 763	12 of 12 samples >3.00	NA	Naturally occurring. By-product of making electronics and fireworks.
Vanadium	ppb	NA	NA	2.78	<0.200 - 7.50	11 of 12 samples >0.200	NA	Naturally occurring. By-product of making steel alloys, chemical manufacturing, ceramics and batteries.