

# Water Quality Report 2019

## Distribution Zone 1

[Definitions & Terms](#) [Notes & Sources of Substances](#)

### Regulatory Compliance Monitoring at [EPTDS](#)

<u>Metals</u>	Sample Collection Years	Units	Detection	Zone 1	City-Wide	Maximum Contaminant Level (MCL)	MCL Goal
Arsenic	2017	PPB	Average Range	3	2 0 - 9	10	Zero
Barium	2017	PPM	Average Range	0	0.02 0 - 0.2	2	2
Chromium	2017	PPB	Average Range	0	1 0 - 7	100	100
<b><u>Minerals</u></b>							
Fluoride	2017	PPM	Average Range	0.42	0.49 0.25 - 1.18	4	4
<b><u>Nutrients</u></b>							
Nitrate	2019	PPM	Average Range	0.40	0.35 0.06 - 3.25	10	10
<b><u>Organics</u></b>							
Total Xylenes	2019	PPM	Average Range	0	0.0005 0 - 0.00057	10	10
<b><u>Radionuclides</u></b>							
Radium 226 + 228	2014 - 2017	pCi/L	Average Range	0.28	0.1794 0.02 - 0.41	5	Zero
Gross Alpha Particle Activity	2014 - 2017	pCi/L	Average Range	1	0.8 0 - 2.5	15	Zero
Uranium	2014 - 2017	PPB	Average Range	3	2 0 - 9	30	Zero

# Voluntary Comprehensive Monitoring in Distribution

(Samples taken every three months, 2019 results)

## Zone 1

<u>Metals</u>	Units	Minimum	Average	Maximum	City Average	MCL
Arsenic	PPB	0	3	5	1 0 - 8	10
Chromium	PPB	0	0	1	1 0 - 4	100
Iron	PPM	0	0.028	0.11	0.009 0 - 0.16	0.3 a
<u>Minerals</u>						
Fluoride	PPM	0.49	0.54	0.69	0.62 0.37 - 1	4
<u>Nutrients</u>						
Nitrate	PPM as N	0	0.18	0.49	0.13 0 - 2.32	10
<u>General Chemistry</u>						
Alkalinity	PPM as CaCO <sub>3</sub>	93	103.7	117.6	96 64 - 142	~
Bicarbonate	PPM as CaCO <sub>3</sub>	92	103.2	117.0	96 63 - 141	~
Calcium	PPM	48	53	64	53 23 - 74	~
Chloride	PPM	36	37	38	34 14 - 54	250 a
Hardness	grains/gallon	8.5	9.4	11.2	9.1 4.4 - 12.7	~
Magnesium	PPM	5.3	6.9	7.7	5.6 2.5 - 7.9	~
Potassium	PPM	0.0	3.3	4.8	3 0 - 7	~
Silica	PPM as SiO <sub>2</sub>	33	37	48	27 16 - 66	~
Sodium	PPM	21	27	31	25 0.15 - 68	~
Sulfate	PPM	56	69	86	72 36 - 116	250 a
Total Dissolved Solids	PPM	270	291	338	277 188 - 368	500 a
Conductance	micromhos/cm	436	507	603	482 310 - 662	~
Free Chlorine Residual	PPM	0.9	1.08	1.34	1 0.3 - 1.4	~
pH	Standard Units	7.6	7.6	7.7	7.7 7.2 - 8.3	~
Temperature	Fahrenheit	44.6	63.7	79	62 37 - 88	~

a- Represents the USEPA Secondary Maximum Contaminant Level (SMCL). Secondary Drinking Water Standards are unenforceable federal guidelines regarding taste, odor, color and certain other non-aesthetic effects of drinking water. USEPA recommends them as reasonable goals, but federal law does not require water systems to comply with them.