



COMPREHENSIVE WATER ANALYSIS 2019

<u>PARAMETER</u>	<u>YWC Sample</u>	<u>EPA/DEP DRINKING WATER STANDARDS</u>
Primary Inorganics (Results in PPM)¹		
Antimony	<0.000500	0.006
Arsenic	<0.000500	0.010
Asbestos	N.D.	< 7 MFL
Barium	0.023	2.00
Beryllium	<0.000300	0.004
Cadmium	<0.000500	0.005
Chromium	<0.00200	0.100
Cyanide (total)	<0.0100	0.200
Fluoride	<0.100	2.00
Lead (customer tap)	0.0035 (90th percentile) ⁴	0.015
Mercury	<0.0001	0.002
Nickel	<0.00139	0.100
Nitrate Nitrogen	3.5	10.0
Nitrite Nitrogen	N.D.	1.00
Total Nitrate & Nitrite	3.5	10.0
Selenium	<0.00300	0.050
Thallium	<0.000500	0.002
Turbidity	0.036	0.30
Herbicides/Pesticides/SOC's (Results in PPM)¹		
Alachlor	N.D.	0.002
Atrazine	0.00034	0.003
Benzo (a) Pyrene	N.D.	0.0002
Carbofuran	N.D.	0.040
Chlordane	N.D.	0.002
Dalapon	N.D.	0.20
Dibromochloropropane (DBCP)	N.D.	0.0002
Di (2-Ethylhexyl) Adipate	N.D.	0.40
Di (2-Ethylhexyl) Phthalate	N.D.	0.006
Dioxin	N.D.	0.00000003
Dinoseb	N.D.	0.007
Diquat	N.D.	0.02
Endothall	N.D.	0.10
Endrin	N.D.	0.002
Ethylene Dibromide (EDB)	N.D.	0.00005
Glyphosphate	N.D.	0.70
Heptachlor	N.D.	0.0004
Heptachlor Epoxide	N.D.	0.0002
Hexachlorobenzene	N.D.	0.001
Hexachlorocyclopentadiene	N.D.	0.05
Lindane	N.D.	0.0002
Methoxychlor	N.D.	0.04
Oxymal	N.D.	0.20
PCB's	N.D.	0.0005
Pentachlorophenol	N.D.	0.001
Piclorem	N.D.	0.50
Simazine	N.D.	0.004
Toxaphene	N.D.	0.003
2,4-D	N.D.	0.07
2,4,5TP (Silvex)	N.D.	0.05

<u>PARAMETER</u>	<u>SAMPLE</u>	<u>WATER STANDARDS</u>
Haloacetic Acids (Results in PPB)²		
First Quarter 2019	12.63	60
Second Quarter 2019	19.6	60
Third Quarter 2019	30.71	60
Fourth Quarter 2019	27.33	60
Total Trihalomethanes (Results in PPB)²		
First Quarter 2019	10.64	80
Second Quarter 2019	26.68	80
Third Quarter 2019	46.79	80
Fourth Quarter 2019	30	80
Radiological Characteristics (Results in pCi/L)³		
Gross Alpha	N.D.	<15.0
Radium-226	N.D.	<5.0
Radium-228	N.D.	<5.0
Uranium	N.D.	<30.0
Microbiological (Results in units)⁵		
Coliform Bacteria (% of positive samples) ⁵	< 0.1%	5.00%
Number of Acute Violations	0	0
Heterotrophic Plate Count (Bac/ml.) ⁵	0.39	500
Regulated Volatile Organic Chemicals (Results in PPM)¹		
Benzene	N.D.	0.005
Carbon Tetrachloride	N.D.	0.005
Chlorobenzene	N.D.	0.10
1,2-Dichloroethane	N.D.	0.005
o-Dichlorobenzene	N.D.	0.60
p-Dichlorobenzene	N.D.	0.075
1,1-Dichloroethylene	N.D.	0.007
cis-1,2-Dichloroethylene	N.D.	0.07
trans-1,2-Dichloroethylene	N.D.	0.10
Dichloromethane	N.D.	0.005
1,2-Dichloropropane	N.D.	0.005
Ethylbenzene	N.D.	0.70
Styrene	N.D.	0.10
Tetrachloroethylene	N.D.	0.005
Toluene	N.D.	1.0
1,2,4-Trichlorobenzene	N.D.	0.07
1,1,1-Trichloroethane	N.D.	0.20
1,1,2-Trichloroethane	N.D.	0.005
Trichloroethylene	N.D.	0.005
Vinyl Chloride	N.D.	0.002
Xylenes (Total)	N.D.	10.0

<u>PARAMETER</u>	<u>SAMPLE</u>	<u>WATER STANDARDS</u>
Unregulated Contaminant Monitoring (Results in PPB)^{2:} 2019		
Entry Point		
Anatoxin-a	<0.0300	*
Cylindrospermopsin	<0.0900	*
Total Microcystin	<0.300	*
Unregulated Contaminant Monitoring (Results in PPB)^{2:} Prior to 2019		
Customer Tap		
Chromium (Total)	<0.2	*
Cobalt	<1	*
Molybdenum	<1	*
Strontium	64	*
Vanadium	<0.2	*
Chromium-6	0.09	*
Chlorate	166	*
Entry Point		
Androstene	<0.0003	*
Equilin	<0.004	*
Estradiol	<0.0004	*
Estriol	<0.0008	*
Estrone	<0.002	*
Ethinylestradiol	<0.0009	*
Testosterone	<0.0001	*
Chromium (Total)	<0.2	*
Cobalt	<1	*
Molybdenum	<1	*
Strontium	57.5	*
Vanadium	0.22	*
Chromium-6	0.095	*
Chlorate	209	*
1,4-dioxane	<0.07	*
1,1-dichloroethane	<0.03	*
1,2,3- trichloropropane	<0.03	*
1,3-butadiene	<0.1	*
Bromochloromethane	<0.06	*
Bromomethane	<0.2	*
Chlorodifluoromethane	<0.08	*
Chloromethane	<0.2	*
PFBS	<0.09	*
PFHpA	<0.01	*
PFHxS	<0.03	*
PHNA	<0.02	*
PFOA	<0.02	*
PFOS	<0.04	*
Secondary Inorganics (Results in PPM)¹		
Alkalinity	50	*
Aluminum	N.D.	0.05 – 0.20
Calcium	22.0	*
Chloride	29.4	250
Conductivity	267.6	*
Color	0	15
Copper (customer tap)	0.029 (90th percentile) ⁴	1.3
Copper (distribution system)	N.D.	1
Corrosivity (Langlier Index)	0.8	*

Secondary Inorganics (Continued) (Results in PPM)¹

Hardness	92	*
Total Iron	0.019	0.3
Lead (distribution system)	N.D.	0.005
Magnesium	6.4	*
Manganese	0.016	0.05
Total Phosphorus	N.D.	*
pH Value	8.6	7.4 - 9.0
Silver	N.D.	0.1
Sodium	16.7	20
Sulfate	20.2	250
Foaming Agents (MBAS)	N.D.	0.5
Total Dissolved Solids	178	500
Zinc	N.D.	5

> Greater than

< Less than

N.D. Not detected

* No EPA/DEP Standard at present time

¹ Part per million = 1 milligram per liter

² Part per billion = 1 microgram per liter

³ pCi/L = 1 picocurie per liter = 1-trillionth of a curie per liter

⁴ Action level = 90% of tier 1 customer tap samples must meet the stated action levels for lead and copper.

- Lead Action Level at customer tap after minimum 6 hr. residence, 90th percentile sample >0.015 mg/L.

- Copper Action Level at customer tap after minimum 6 hr. residence, 90th percentile sample >1.300 mg/L.

⁵ Based on 1,440 distribution tap samples collected during 2019.
(DEP requires 1,440).