



COMPREHENSIVE WATER ANALYSIS 2017

<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	0.01
Asbestos	N.D.	< 7mf/L
Barium	0.016	2
Beryllium	<0.000300	0.004
Cadmium	<0.000500	0.005
Chromium	<0.00200	0.1
Cyanide (total)	<0.0100	0.2
Fluoride	<0.100	2
Lead (customer tap)	Spring - 0.0074 (90th percentile) ⁴ Fall - 0.0094 (90th percentile) ⁴	0.015 0.015
Mercury	<0.0001	0.002
Nickel	<0.00139	0.1
Nitrate Nitrogen	3.7	10
Nitrite Nitrogen	0	1
Total Nitrate & Nitrite	3.7	10
Selenium	<0.00300	0.05
Thallium	<0.000500	0.002
Turbidity	0.04	0.3
Herbicides/Pesticides/SOC's (Results in PPM)¹		
Alachlor	N.D.	0.002
Atrazine	0.00042	0.003
Benzo (a) Pyrene	N.D.	0.0002
Carbofuran	N.D.	0.04
Chlordane	N.D.	0.002
Dalapon	N.D.	0.2
Dibromochloropropane (DBCP)	N.D.	0.0002
Di (2-Ethylhexyl) Adipate	N.D.	0.4
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.	0.1
Endrin	N.D.	0.002
Ethylene Dibromide (EDB)	N.D.	0.00005
Glyphosphate	N.D.	0.7
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.	0.2
PCB's	N.D.	0.0005
Pentachlorophenol	N.D.	0.001
Picloreth	N.D.	0.5
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 2017	10.63	60
Second Quarter 2017	21.38	60
Third Quarter 2017	34.2	60
Fourth Quarter 2017	23.1	60
Total Trihalomethanes (Results in PPB)²		
First Quarter 2017	15.58	80
Second Quarter 2017	34.38	80
Third Quarter 2017	43.55	80
Fourth Quarter 2017	29.28	80
Radiological Characteristics (Results in PCi/L)³		
Gross Alpha	0.1 (±1.3)	<15.0
Gross Beta	1.3 (±2.5)	<50.0
Radium-226	0.1 (±0.06)	<5.0
Radium-228	0.2 (±0.7)	<5.0
Uranium	0.9	<30.0
Microbiological (Results in units)⁵		
Coliform Bacteria (% of positive sample)	<0.1%	5.00%
Number of Acute Violations	0	0
Heterotrophic Plate Count (Bac/ml.) ⁵	0.21	500
Regulated Volatile Organic Chemicals (Results in PPM)¹		
Benzene	N.D.	0.005
Carbon Tetrachloride	N.D.	0.005
Chlorobenzene	N.D.	0.1
1,2-Dichloroethane	N.D.	0.005
o-Dichlorobenzene	N.D.	0.6
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.	0.1
Dichloromethane	N.D.	0.005
1,2-Dichloropropane	N.D.	0.005
Ethylbenzene	N.D.	0.7
Styrene	N.D.	0.1
Tetrachloroethylene	N.D.	0.005
Toluene	N.D.	1
1,2,4-Trichlorobenzene	N.D.	0.07
1,1,1-Trichloroethane	N.D.	0.2
1,1,2-Trichloroethane	N.D.	0.005
Trichloroethylene	N.D.	0.005
Vinyl Chloride	N.D.	0.002
Xylenes (Total)	N.D.	10

PARAMETERSAMPLEWATER STANDARDS**Unregulated Contaminant Monitoring (Results in PPB)²**

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	56	*
Aluminum	N.D.	0.05 – 0.20
Calcium	23.0	*
Chloride	31.9	250
Conductivity	206.4	*
Color	0	15
Copper (customer tap)	Spring - 0.088 (90th percentile) ⁴ Fall - 0.049 (90th percentile) ⁴	1.3 1.3
Copper (distribution system)	0.02	1
Corrosivity (Langlier Index)	0.03	*
Hardness	101	*
Total Iron	0.027	0.3
Lead (distribution system)	N.D.	0.005
Magnesium	7.0	*
Manganese	0.015	0.05
Total Phosphorus	N.D.	*
pH Value	8.5	7.4 - 9.0
Silver	N.D.	0.1

<u>PARAMETER</u>	<u>SAMPLE</u>	<u>WATER STANDARDS</u>
Secondary Inorganics (Results in PPM)¹		
Sodium	18.6	20
Sulfate	22.3	250
Foaming Agents (MBAS)	N.D.	0.5
Total Dissolved Solids	143.2	500
Zinc	0.048	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 Part per trillion = 1 picocurie per liter

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

~ Lead 0.015 mg/L at customer tap after minimum 6 hr. residence.

~ Copper 1.300 mg/L at customer tap after minimum 6 hr. residence.

~ Lead 0.005 mg/L in distribution system.

⁵ Based on 1,466 distribution tap samples collected during 2017.

(DEP requires minimum 1,440).