



Cobb County- Marietta Water Authority  
 Drinking Water  
 All Water Tests - 2021

updated-  
 1/12/2022

Other Parameters	Quarles WTP mg/L average	Wyckoff WTP mg/L average	Maximum Limit MCL mg/L	Aesthetic Standards SMCL mg/L	EPA Limit Met by CCMWA?	Sources of Parameter in Drinking Water	Frequency of Test
Alkalinity	19	27	No EPA Limit	No EPA Limit	n/a	Natural from rocks and soils; addition from drinking water treatment	Hourly
Aluminum	Not detected	Not detected	No EPA Limit	0.05-0.2	yes	Natural dissolution from rocks; addition from drinking water treatment	Annually
Calcium	8.8	11.5	No EPA Limit	No EPA Limit	n/a	Natural dissolution from rocks	Biweekly
Hardness	30	37	No EPA Limit	No EPA Limit	n/a	Natural dissolution from rocks	Biweekly
Hardness, grains per gallon	1.8	2.2	No EPA Limit	No EPA Limit	n/a	Natural dissolution from rocks	Biweekly
Magnesium	Not tested	Not tested	No EPA Limit	No EPA Limit	n/a	Natural dissolution from rocks	As needed
Nickel	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Leaching from pipes and fittings, power plant discharges	Annually
pH	8.0	8	No EPA Limit	6.5-8.5	yes	Natural sources; addition from drinking water treatment	Hourly
Sodium	9.4	7.5	No EPA Limit	No EPA Limit	n/a	Natural sources; addition from drinking water treatment	Annually
Zinc	Not detected	Not detected	No EPA Limit	5	yes	Power plant discharges	Annually
Chloride	10.96	8.39	No EPA Limit	250	yes	Deicing of roads; leachate from landfill; natural leaching from rocks; addition from drinking water treatment	Weekly
Sulfate	12.69	13.77	No EPA Limit	250	yes	Natural leaching from rocks; addition from drinking water treatment; industrial discharges	Weekly
Conductivity	123.8	124.7	No EPA Limit	No EPA Limit	n/a	Natural minerals dissolved in water; wastewater discharges; addition from drinking water treatment	Biweekly

Total Dissolved Solids	82.95	83.55	No EPA Limit	500	yes	Natural minerals dissolved in water; wastewater discharges; addition from drinking water treatment	Biweekly
Total Organic Carbon	Filtered 1.19	Filtered 1.49	TT average removal ratio between Filtered and Raw	No EPA Limit	yes	Decaying natural organic matter (NOM); discharges of fertilizers, pesticides herbicides and industrial chemicals	Continuous Online Monitoring
	Raw 2.23	Raw 2.70					
Turbidity	0.06	0.06	TT = 1 NTU	No EPA Limit	yes	Natural sediment- clay and silt; organic compounds; algae; microscopic organisms	Hourly
	100% meet standard	100% meet standard	TT = percentage of samples <0.3 NTU				

Inorganic Chemicals	Quarles WTP mg/L	Wyckoff WTP mg/L	Maximum Limit MCL mg/L	Aesthetic Standards SMCL mg/L	EPA Limit Met by CCMWA?	Sources of Contaminant in Drinking Water	Frequency of Test
Antimony	Not detected	Not detected	0.85	No EPA Limit	yes	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder	Annually
Arsenic	Not detected	Not detected	0.010	No EPA Limit	yes	Erosion of natural deposits; runoff from orchards, runoff from glass and electronics production wastes	Annually
Barium	Not detected	Not detected	2	No EPA Limit	yes	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits	Annually
Beryllium	Not detected	Not detected	0.004	No EPA Limit	yes	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries	Annually
Cadmium	Not detected	Not detected	0.005	No EPA Limit	yes	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints	Annually
Chromium (Total)	Not detected	Not detected	0.1	No EPA Limit	yes	Discharge from steel and pulp mills; erosion of natural deposits	Annually
Fluoride	0.78	0.8	4.0	2.0	yes	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories	Annually/ 3 times daily
Iron	Not detected	Not detected	No EPA Limit	0.3	yes	Erosion of natural deposits	Annually/ 2 times daily

Manganese	Not detected	Not detected	No EPA Limit	0.05	yes	Erosion of natural deposits	Annually/ 2 times daily
Mercury	Not detected	Not detected	0.002	No EPA Limit	yes	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and croplands	Annually
Nitrate/Nitrite	0.74	0.3	10	No EPA Limit	yes	Runoff from fertilizer use; leaking from septic tanks, sewage; erosion of natural deposits	Annually
Potassium	Not tested	Not tested	No EPA Limit	No EPA Limit	n/a	Erosion of natural deposits	Annually
Selenium	Not detected	Not detected	0.05	No EPA Limit	yes	Discharge from petroleum refineries; erosion of natural deposits; discharge from mines	Annually
Thallium	Not detected	Not detected	0.002	No EPA Limit	yes	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories	Annually

Disinfectants and Disinfection Byproducts at treatment plant	Quarles WTP mg/L	Wyckoff WTP mg/L	Maximum Limit MCL mg/L	Aesthetic Standards SMCL mg/L	EPA Limit Met by CCMWA?	Sources of Contaminant in Drinking Water	Frequency of Test
Chlorite	0.23	0.24	1.0	No EPA Limit	yes	Byproduct of drinking water disinfection	Daily
Chlorine Dioxide	0.06	0.03	0.8	No EPA Limit	yes	Byproduct of drinking water disinfection	Daily
Chlorate	0.35	0.30	No EPA Limit	No EPA Limit	n/a	Byproduct of drinking water disinfection; pesticide runoff; papermill discharges	Weekly
Chlorine as free chlorine residual	1.71	1.84	4.0	No EPA Limit	yes	Byproduct of drinking water disinfection	Continuous Online Monitoring

Disinfectants and Disinfection Byproducts in the Distribution System	Site(S) in Distribution System		Maximum Limit MCL mg/L	Aesthetic Standards SMCL mg/L	EPA Limit Met by CCMWA?	Sources of Contaminant in Drinking Water	Frequency of Test
Chlorine average as free chlorine residual <sup>1</sup>	1.3		4.0	No EPA Limit	yes	Byproduct of drinking water disinfection	Daily
Chlorite average of 3 samples in distribution system	0.245	0.248	1.0	No EPA Limit	yes	Byproduct of drinking water disinfection	Monthly
Haloacetic Acids (HAA5) locational running annual average in distribution system <sup>2</sup>	Site 503	Site 504	0.06	n/a	yes	Byproduct of drinking water disinfection	Quarterly
	0.02	0.02					
Total Trihalomethanes (TTHMs) locational running annual average in	Site 503	Site 504	0.08	n/a	yes	Byproduct of drinking water	Quarterly

occasional running annual average in distribution system <sup>2</sup>	0.03	0.04	0.08	n/a	yes	disinfection	Quarterly
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<sup>1</sup> Average free chlorine measured in our wholesale customer's distribution systems. from sites in CCMWA transmission system.

<sup>2</sup> Samples

Volatile Organic Chemicals	Quarles WTP mg/L	Wyckoff WTP mg/L	Maximum Limit MCL mg/L	Aesthetic Standards SMCL mg/L	EPA Limit Met by CCMWA?	Sources of Contaminant in Drinking Water	Frequency of Test
Vinyl chloride	Not detected	Not detected	0.002	No EPA Limit	yes	Leaching from PVC pipes; discharge from plastic factories	Annually
1,1-Dichloroethylene	Not detected	Not detected	0.007	No EPA Limit	yes	Discharge from industrial chemical factories	Annually
Dichloromethane	Not detected	Not detected	0.005	No EPA Limit	yes	Discharge from industrial chemical factories	Annually
<i>trans</i> -1,2-Dichloroethylene	Not detected	Not detected	0.1	No EPA Limit	yes	Discharge from industrial chemical factories	Annually
<i>cis</i> -1,2-Dichloroethylene	Not detected	Not detected	0.07	No EPA Limit	yes	Discharge from industrial chemical factories	Annually
1,1,1-Trichloroethane	Not detected	Not detected	0.02	No EPA Limit	yes	Discharge from metal degreasing sites and other factories	Annually
Carbon tetrachloride	Not detected	Not detected	0.005	No EPA Limit	yes	Discharge from chemical plants and other industrial activities	Annually
Benzene	Not detected	Not detected	0.005	No EPA Limit	yes	Discharge from factories; leaching from gas storage tanks and landfills	Annually
1,2-Dichloroethane	Not detected	Not detected	0.005	No EPA Limit	yes	Discharge from industrial chemical factories	Annually
Trichloroethylene	Not detected	Not detected	0.005	No EPA Limit	yes	Discharge from metal degreasing sites and other factories	Annually
1,2-Dichloropropane	Not detected	Not detected	0.005	No EPA Limit	yes	Discharge from industrial chemical factories	Annually
Toluene	Not detected	Not detected	1	No EPA Limit	yes	Discharge from petroleum factories	Annually
1,1,2-Trichloroethane	Not detected	Not detected	0.005	No EPA Limit	yes	Discharge from industrial chemical factories	Annually
Tetrachloroethylene	Not detected	Not detected	0.005	No EPA Limit	yes	Discharge from factories and dry cleaners	Annually
Chlorobenzene	Not detected	Not detected	0.1	No EPA Limit	yes	Discharge from chemical and agricultural chemical factories	Annually
Ethylbenzene	Not detected	Not detected	0.7	No EPA Limit	yes	Discharge from petroleum refineries	Annually
Total Xylenes	Not detected	Not detected	1010	No EPA Limit	yes	Discharge from petroleum factories; discharge from chemical factories	Annually
Styrene	Not detected	Not detected	0.1	No EPA Limit	yes	Discharge from rubber and plastic factories; leaching from landfills	Annually
p-Dichlorobenzene	Not detected	Not detected	0.075	No EPA Limit	yes	Discharge from industrial chemical factories	Annually
o-Dichlorobenzene	Not detected	Not detected	0.6	No EPA Limit	yes	Discharge from industrial chemical factories	Annually
1,2,4-Trichlorobenzene	Not detected	Not detected	0.07	No EPA Limit	yes	Discharge from textile finishing factories	Annually
Dichlorodifluoromethane	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Leachate from landfills	Annually

Chloromethane	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Discharge from industrial chemical factories; environmental from natural sources	Annually
Bromomethane	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Leaching into groundwater from chemical treatment of soils; discharge from agricultural factories	Annually
Chloroethane	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Discharge from industrial chemical factories	Annually
Fluorotrichloromethane	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Leachate from wastesite into groundwater, Leachate from agricultural sites	Annually
1,1-Dichloroethane	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Leachate from wastesite into surface and groundwater	Annually
2,2-Dichloropropane	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Leaching into groundwater from chemical treatment of soils into groundwater	Annually
Bromochloromethane	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Formed naturally by algae in oceans; Byproduct of drinking water disinfection	Annually
Chloroform	7.7	5.5	No EPA Limit	No EPA Limit	n/a	Byproduct of drinking water disinfection; Regulated under TTHMs	Annually
1,1-Dichloropropene	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Discharge from industrial chemical factories	Annually
Dibromomethane	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Discharge from industrial chemical factories	Annually
Bromodichloromethane	2.6	3.2	No EPA Limit	No EPA Limit	n/a	Byproduct of drinking water disinfection; Regulated under TTHMs	Annually
<i>cis</i> -1,3-Dichloropropene	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Leachate from wastesite into surface and groundwater	Annually
<i>trans</i> -1,3-Dichloropropene	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Leachate from wastesite into surface and groundwater	Annually
1,3-Dichloropropane	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Leachate from agricultural sites	Annually
Chlorodibromomethane	0.69	1.1	No EPA Limit	No EPA Limit	n/a	Byproduct of drinking water disinfection; Regulated under TTHMs	Annually
1,2-Dibromoethane	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Leachate from wastesite into groundwater; Leaching into groundwater from agricultural treatment of soils into groundwater	Annually
1,1,1,2-Tetrachloroethane	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Leachate from wastesite into groundwater	Annually
Bromoform	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Byproduct of drinking water disinfection; Regulated under TTHMs	Annually
Isopropylbenzene	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Discharge from industrial chemical factories	Annually
1,1,2,2-Tetrachloroethane	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Leaching into groundwater from chemical factories	Annually
Bromobenzene	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Discharge from industrial chemical factories;	Annually
1,2,3-Trichloropropane	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Leachate from wastesite into groundwater	Annually
n-Propylbenzene	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Discharge from industrial chemical factories; Leachate from landfills	Annually

o-Chlorotoluene	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Discharge from industrial chemical factories	Annually
1,3,5-Trimethylbenzene	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Leachate from wastesite into groundwater	Annually
p-Chlorotoluene	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Discharge from industrial chemical factories	Annually
tert-Butylbenzene	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Discharge from industrial chemical factories	Annually
1,2,4-Trimethylbenzene	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Discharge from petroleum factories; discharge from chemical factories	Annually
sec-Butylbenzene	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Leachate from landfills	Annually
p-Isopropyltoluene	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Discharge from petroleum factories	Annually
m-Dichlorobenzene	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Discharge from industrial chemical factories	Annually
1,2-Dibromo-3-chloropropane	Not detected	Not detected	0.0002	No EPA Limit	n/a	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards	Annually
Hexachloro-1,3-butadiene	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Discharge from industrial chemical factories	Annually
Naphthalene	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Leachate from wastesite and from landfills; Discharge from industrial chemical factories	Annually
1,2,3-Trichlorobenzene	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Leachate from wastesite; Discharge from industrial chemical factories	Annually
2-Methoxy-2-methylbenzene	Not detected	Not detected	No EPA Limit	No EPA Limit	n/a	Discharge from chemical factories	Annually

<b>Microbiology</b>	<b>Total Coliform and <i>E. coli</i> Plant Finished Water</b>	<b>Quarles WTP</b>	<b>Wyckoff WTP</b>	<b>Maximum Limit MCL</b>	<b>Aesthetic Standards SMCL</b>	<b>EPA Violation by CCMWA?</b>	<b>Sources of Contaminant in Drinking Water</b>	<b>Frequency of Test</b>
Total Coliform	0 positive	1 positive sample with negative repeat Total coliform and <i>E. coli</i> . 6/28/21	<sup>1</sup> TT Trigger not MCL violation Two or more positive samples in one month	n/a	No	Coliforms are naturally present in the environment; as well as feces	Daily	
<i>E. coli</i>	0 positive	1 positive sample with negative repeat Total coliform and <i>E. coli</i> 6/28/21	0 <sup>2</sup>	n/a	No	<i>E. coli</i> are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Disease-causing microbes (pathogens) in these wastes can cause diarrhea, cramps, nausea, headaches, or other symptoms. These pathogens may pose a special health risk for infants, young children, and people with severely compromised immune systems.	Daily	

<sup>1</sup>Treatment Technique Trigger occurs when there are two or more positive total coliform samples in one month and requires a Level 1 Assessment be performed.

<sup>2</sup>E. coli MCL violation occurs when there is a positive E. coli followed by a positive total coliform or E. coli repeat or positive total coliform followed by a positive E. coli repeat sample

The RTCR requires PWSs that have an indication of coliform contamination (e.g., as a result of TC+ samples, E. coli MCL violations, performance failure) to assess the problem and take corrective action. There are two levels of assessments (i.e., Level 1 and Level 2) based on the severity or frequency of the problem.

Special Samples Tested Triennially Lead and Copper 2020	Average Level mg/L	90% Level of All Samples	Maximum Limit MCL mg/L	Aesthetic Standards SMCL mg/L	EPA Limit Met by CCMWA?	Sources of Contaminant in Drinking Water	Frequency of Test
Lead	0.0042	0.002	TT AL= 0.015	No EPA Limit	yes	Corrosion of household plumbing systems; erosion of natural deposits	Triennially
Copper	0.0239	0.04	TT AL= 1.3	1	yes	Corrosion of household plumbing systems; erosion of natural deposits	Triennially

Reduced monitoring schedule due to low levels of detection and ability to meet the action levels for both lead and copper.

Special Samples every 9 years Radionuclides 2018	Quarles WTP pCi/L	Wyckoff WTP pCi/L	Maximum Limit MCL pCi/L	Aesthetic Standards SMCL pCi/L	EPA Limit Met by CCMWA?	Sources of Contaminant in Drinking Water	Frequency of Test
Gross Alpha particles	n/a	-0.010 ( ± 0.571)	15	No EPA Limit	yes	Erosion of natural deposits	Every 9 years
Radium 226	n/a	0.397 ( ± 0.397)	5	No EPA Limit	yes	Erosion of natural deposits	
Radium 228	n/a	0.319 ( ± 0.368)				Erosion of natural deposits	

values. When a sample has little radioactivity, the analytical results should have a normal distribution of positive and negative results

Special Samples every 9 years Radionuclides 2019	Quarles WTP pCi/L	Wyckoff WTP pCi/L	Maximum Limit MCL pCi/L	Aesthetic Standards SMCL pCi/L	EPA Limit Met by CCMWA?	Sources of Contaminant in Drinking Water	Frequency of Test
Gross Alpha particles	-0.252 ( ± 0.480)	n/a	15	No EPA Limit	yes	Erosion of natural deposits	Every 9 years
Radium 226	0.434 ( ± 0.149)	n/a	5	No EPA Limit	yes	Erosion of natural deposits	
Radium 228	-0.0557 ( ± 0.3038)	n/a				Erosion of natural deposits	

Reported values are sometimes negative values. When a sample has little radioactivity, the analytical results should have a normal distribution of positive and negative results around zero. When a sample result is subtracted from that of the system's background and the sample value is less than the background, the result is a negative value. The level of uncertainty is reported as (± a number).

Unregulated Contaminants PFAS	Quarles WTP ng/L	Wyckoff WTP ng/L	No Maximum Limit MCL By EPA	Aesthetic Standards SMCL pCi/L	EPA Limit Met by CCMWA?	Sources of Contaminant in Drinking Water	Frequency of Test
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Perfluorooctanoic acid (PFOA) <sup>1</sup>	2.4	Not detected	n/a	No EPA Limit	n/a	PFOAs come from a wide range of consumer products, stain-resistant carpet, water-repellent clothes, paper and cardboard packaging, ski wax, and foams used to fight fires. PFOA is also created when other chemicals break down.	No requirement
Perfluorooctanesulfonic acid (PFOS) <sup>1</sup>	2.3	Not detected	n/a	No EPA Limit	n/a	PFOA can still be found in older consumer products in which it was used before phase-out. PFOA is used in household goods including non-stick coatings like Gore-Tex or cookware (think Teflon), or in carpet and furniture that have been treated to be stain resistant.	No requirement
Perfluorobutanesulfonic acid (PFBS) <sup>2</sup>	2.2	Not detected	n/a	No EPA Limit	n/a	PFBS is the replacement chemical for Scotchguard water repellent. It has been used as a surfactant in industrial processes and in water-resistant or stain-resistant coatings on consumer products such as fabrics, carpets, and paper.	No requirement
Perfluoroheptanoic acid (PFHpA)	Not detected	Not detected	n/a	No EPA Limit	n/a	Breakdown product of stain- and grease-proof coatings on food packaging, couches, carpets. A 7-carbon version of PFOA	No requirement
Perfluorohexanesulfonic acid (PFHxS)	Not detected	Not detected	n/a	No EPA Limit	n/a	Sources include firefighting foams, textile coating, metal plating and in polishing agents	No requirement
Perfluorononanoic acid (PFNA)	Not detected	Not detected	n/a	No EPA Limit	n/a	PFNA is used as surfactant for the production of the fluoropolymer polyvinylidene fluoride	No requirement
Perfluorodecanoic acid (PFDA)	Not detected	Not detected	n/a	No EPA Limit	n/a	PFDA is a fluorosurfactant and has been used in industry, with applications as wetting agent and flame retardant.	No requirement
Perfluorohexanoic acid (PFHxA) <sup>3</sup>	3.4	Not detected	n/a	No EPA Limit	n/a	PFHxA is breakdown product of stain- and grease-proof coatings on food packaging and household products.	No requirement
Perfluorododecanoic acid (PFDoA)	Not detected	Not detected	n/a	No EPA Limit	n/a	PFDoA is a product of stain- and grease-proof coatings on food packaging, soft furnishings and carpets.	No requirement
Perfluorotridecanoic acid (PFTTrDA)	Not detected	Not detected	n/a	No EPA Limit	n/a	PFTTrDA is a product of stain- and grease-proof coatings on food packaging, soft furnishings and carpets.	No requirement
Perfluoroundecanoic acid (PFUnA)	Not detected	Not detected	n/a	No EPA Limit	n/a	PFUnA is a product of stain- and grease-proof coatings on food packaging, soft furnishings and carpets.	No requirement

N-ethyl Perfluorooctanesulfonamidoacetic acid	Not detected	Not detected	n/a	No EPA Limit	n/a	Sources include stain- and grease-proof coatings on food packaging, soft furnishings and carpets.	No requirement
N-methyl Perfluorooctanesulfonamidoacetic acid	Not detected	Not detected	n/a	No EPA Limit	n/a	Sources include stain- and grease-proof coatings on food packaging, soft furnishings and carpets.	No requirement
HFPO-DA/GenX	Not detected	Not detected	n/a	No EPA Limit	n/a	Sources include food packaging, paints, cleaning products, non-stick coatings, outdoor fabrics and firefighting foam.	No requirement
4,8-dioxia-3H-perflouoronanoic acid (ADONA)	Not detected	Not detected	n/a	No EPA Limit	n/a	Sources include food packaging, paints, cleaning products, non-stick coatings, outdoor fabrics and firefighting foam.	No requirement
9Cl-PF3ONS/F-53B Major	Not detected	Not detected	n/a	No EPA Limit	n/a	Sources include food packaging, paints, cleaning products, non-stick coatings, outdoor fabrics and firefighting foam.	No requirement
11Cl-PF3OUs/F-53B Minor	Not detected	Not detected	n/a	No EPA Limit	n/a	Sources include food packaging, paints, cleaning products, non-stick coatings, outdoor fabrics and firefighting foam.	No requirement
Perfluorotetradecanoic acid (PFTeDA)	Not detected	Not detected	n/a	No EPA Limit	n/a	Sources include food packaging, paints, cleaning products, non-stick coatings, outdoor fabrics and firefighting foam.	No requirement

**1**PFOA and PFOS- The EPA only has health advisories for PFOA and PFOS, which are 70 ppt (ng/L). This is combined or individual. The detects for these compounds for Quarles were 2.4 and 2.3 ng/L respectively. Well below the health advisory level.

**2**PFHxA- The State of Illinois has a health advisory for PFHxA, while EPA does not. The Illinois health advisory is 560,000 ppt (ng/L). The detected amount for Quarles was 3.4 ng/L.

**3**PFBS- The State of Illinois has a health advisory for PFBS, while EPA does not. The Illinois health advisory is 2,100 ppt (ng/L). The detected amount for Quarles was 2.2 ng/L.

## Definitions and Terms

<b>Action Level (AL)</b>	The concentration of a contaminant, which if exceeded, triggers treatment or other requirements that a water system must follow.
<b>Maximum Contaminant Level (MCL)</b>	The highest level of contaminant that is allowed in drinking water. MCLs are set as close to the MCLG as feasible using the best available treatment technology. These are enforceable standards.
<b>Secondary MCL (SMCL)</b>	A nonenforceable numerical limit set by the USEPA for a contaminant on the basis of aesthetic effects to prevent an undesirable taste, odor, or appearance.
<b>Maximum Contaminant Level Goal (MCLG)</b>	The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.
<b>N/A</b>	Not Applicable
<b>NTU</b>	Nephelometric Turbidity Unit (a measure of particles held in suspension in water.)
<b>Parts per Million (ppm) or Milligrams per Liter (mg/L)</b>	Are units of measurement for concentration of a contaminant. A part per million corresponds to one second in roughly 11.5 days.
<b>PFAS</b>	Per- and Polyfluoroalkyl Substances (PFAS) Are a group of manufactured chemicals that have been used in industry and consumer products since the 1940s because of their useful properties.
<b>Grains per Gallon (gpg)</b>	A non-metric unit of measurement for hardness used in North America.

<b>The "&gt;" symbol</b>	This symbol means "greater than."
<b>The "&lt;" symbol</b>	This symbol means "less than." For example, a result of < 5 means that the lowest level that could be detected was 5 and the contaminant in that sample was not detected.
<b>Treatment Technique (TT)</b>	A required process intended to reduce the level of a contaminant in drinking water. For Total Organic Carbon (TOC) the level must be above 1. For turbidity the level must be under 0.3 NTU 95% of the time, and always < 1 NTU. Lead and copper are regulated by a treatment technique that requires systems to control the corrosiveness of their water. If more than 10% of tap water samples exceed the action level, water systems must take additional steps. For copper, the action level is 1.3 mg/L, and for lead is 0.015 mg/L.
<b>Turbidity</b>	A measurement of the cloudiness of the water. We monitor turbidity because it is a good indication of water quality and the effectiveness of our treatment process.
<b>Reporting Limit (RL)</b>	Defined as the smallest concentration of a chemical that can be reported by a laboratory.
<b>RTCR</b>	Revised Total Coliform Rule
<b>Inorganic Chemicals (IOCs)</b>	Consist of salts and metals, which may be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
<b>Volatile Organic Compounds (VOCs)</b>	Volatile Organic Compounds include both regulated and unregulated compounds which are listed in the National Primary Drinking Water Regulations.
<b>Picocuries per liter (pCi/L)</b>	A unit for measuring radioactive concentrations.
<b>CCMWA</b>	Cobb County-Marietta Water Authority- is a regional public utility that provides potable (drinking and fire protection) water on a wholesale basis to 11 retail water suppliers, one industrial customer and one institutional customer.