

AKRON DRINKING WATER

OHIO EPA REGULATED ANALYSES - 2007

This chart is available on-line at ci.akron.oh.us/PubUtil/pdf/2007allwatertests.pdf

Charts for other years are available at the same internet address by changing the year

INORGANIC CHEMICALS AT PLANT TAP	AKRON WATER	AKRON WATER	AKRON WATER	OHIO EPA	Did Akron water meet EPA primary limit?
	AVERAGE LEVEL	MINIMUM LEVEL	MAXIMUM LEVEL	MAXIMUM LIMIT	
	MILLIGRAMS PER LITER	MILLIGRAMS PER LITER	MILLIGRAMS PER LITER	MILLIGRAMS PER LITER	
Antimony	<0.004	<0.004	<0.004	0.006	yes
Arsenic	<0.003	<0.003	<0.003	0.01	yes
Barium	0.045	0.045	0.045	2	yes
Beryllium	<0.001	<0.001	<0.001	0.004	yes
Cadmium	<0.001	<0.001	<0.001	0.005	yes
Chlorine, free residual	2.57	1.65	3.74	0.2 minimum	yes
Chlorine, combined	0.25	0.02	0.63	no EPA limit	not applicable
Chromium	<0.004	<0.004	<0.004	0.1	yes
Copper	0.0115	<0.010	0.016	1.3	yes
Cyanide	<0.005	<0.005	<0.005	0.2	yes
Fluoride	0.94	0.07	1.26	4.0 primary 2.0 secondary	yes yes
Manganese	0.026	0.001	0.071	0.05 secondary	not applicable
Mercury	<0.0002	<0.0002	<0.0002	0.002	yes
Nickel	<0.004	<0.004	<0.004	0.1	yes
Nitrate	0.58	0.47	0.71	10	yes
Selenium	<0.004	<0.004	<0.004	0.05	yes
Sodium	58.2	58.2	58.2	no EPA limit	not applicable
Thallium	<0.001	<0.001	<0.001	0.002	yes

LEAD & COPPER AT CUSTOMER TAPS	AKRON WATER	AKRON WATER	AKRON WATER	OHIO EPA MAXIMUM	Did Akron water meet EPA limit?
	90th PERCENTILE LEVEL	MINIMUM LEVEL	MAXIMUM LEVEL	90th PERCENTILE	
	MICROGRAMS PER LITER	MICROGRAMS PER LITER	MICROGRAMS PER LITER	MICROGRAMS PER LITER	
Lead	Lead testing was not required in 2007. The next round of lead sampling will be in 2009.				not applicable
Copper	Copper testing was not required in 2007. The next round of copper sampling will be in 2009.				not applicable

DISINFECTION BYPRODUCTS STAGE 1 MONITORING DISTRIBUTION SYSTEM	AKRON WATER	AKRON WATER	AKRON WATER	OHIO EPA	Did Akron water meet EPA limit?
	AVERAGE LEVEL	MINIMUM LEVEL	MAXIMUM LEVEL	MAXIMUM LIMIT	
	MICROGRAMS PER LITER	MICROGRAMS PER LITER	MICROGRAMS PER LITER	MICROGRAMS PER LITER	
Trihalomethanes, total, running annual average	46.7	42.1	51.8	80	yes
Trihalomethanes, quarterly average	43.3	16.6	59.0	no EPA limit	not applicable
Haloacetic acids, HAA5, running annual average	32.0	21.6	40.0	60	yes
Haloacetic acids, HAA5, quarterly average	21.6	12.8	27.5	no EPA limit	not applicable

INORGANIC DISINFECTION BYPRODUCTS (DBPs)	AKRON WATER	AKRON WATER	AKRON WATER	OHIO EPA	Did Akron water meet EPA limit?
	AVERAGE LEVEL	MINIMUM LEVEL	MAXIMUM LEVEL	MAXIMUM LIMIT	
	MILLIGRAMS PER LITER	MILLIGRAMS PER LITER	MILLIGRAMS PER LITER	MILLIGRAMS PER LITER	
Chlorite, at plant tap	0.68	0.00	1.13	no EPA limit	not applicable
Chlorite, average of 3 samples in distribution system	0.525	0.219	0.733	1.0	yes
Chlorate	0.51	0.16	1.19	no EPA limit	not applicable

DISINFECTANT RESIDUALS	AKRON WATER AVERAGE LEVEL MILLIGRAMS PER LITER	AKRON WATER MINIMUM LEVEL MILLIGRAMS PER LITER	AKRON WATER MAXIMUM LEVEL MILLIGRAMS PER LITER	OHIO EPA MAXIMUM LIMIT MILLIGRAMS PER LITER	Did Akron water meet EPA limit?
Free Chlorine, of 2445 distribution samples	1.13	0.11	4.40	no EPA limit	not applicable
Free Chlorine, percent less than 0.2 milligrams per liter for each month, distribution samples	0.4%	0.0%	1.8%	5%	yes
Total Chlorine, running annual average calculated quarterly	1.30	1.28	1.32	4.0	yes
Chlorine Dioxide, at plant tap, daily 1-day reading	0.18	0.00	0.53	no EPA limit	not applicable
Chlorine Dioxide, plant tap, lowest of 2 consecutive days	0.15	0.00	0.40	0.8	yes
Chlorine Dioxide, closest customer, highest of 3 readings, 6 hrs apart, after a daily plant tap over 1.0 mg/L	no test required, because no plant tap readings above 0.8 mg/L	no test required, because no plant tap readings above 0.8 mg/L	no test required, because no plant tap readings above 0.8 mg/L	0.8	yes

MICROBIOLOGY (TOTAL COLIFORM) DISTRIBUTION SYSTEM	AKRON WATER AVERAGE LEVEL	AKRON WATER MINIMUM LEVEL	AKRON WATER MAXIMUM LEVEL	OHIO EPA MAXIMUM LIMIT	Did Akron water meet EPA limit?
Coliform positives, percent per month	0.0%	0.0%	0.0%	5%	yes
Repeat coliform positives	0	0	0	0	yes

TURBIDITY	AKRON WATER AVERAGE LEVEL NEPHELOMETRIC UNITS	AKRON WATER MINIMUM LEVEL NEPHELOMETRIC UNITS	AKRON WATER MAXIMUM LEVEL NEPHELOMETRIC UNITS	OHIO EPA MAXIMUM LIMIT NEPHELOMETRIC UNITS	Did Akron water meet EPA limit?
Turbidity	0.069	0.042	0.222	1	yes
Turbidity, percent of tests greater than 0.3 Nephelometric Units for each month	0.00%	0.00%	0.00%	5%	yes

PESTICIDES, SYNTHETIC ORGANIC CHEMICALS (SOCs)	AKRON WATER AVERAGE LEVEL MICROGRAMS PER LITER	AKRON WATER MINIMUM LEVEL MICROGRAMS PER LITER	AKRON WATER MAXIMUM LEVEL MICROGRAMS PER LITER	OHIO EPA MAXIMUM LIMIT MICROGRAMS PER LITER	Did Akron water meet EPA limit?
Alachlor	<0.20	<0.20	<0.20	2	yes
Atrazine	0.32	<0.30	0.37	3	yes
Simazine	<0.40	<0.40	<0.40	4	yes

OTHER PARAMETERS	AKRON WATER AVERAGE LEVEL MILLIGRAMS PER LITER	AKRON WATER MINIMUM LEVEL MILLIGRAMS PER LITER	AKRON WATER MAXIMUM LEVEL MILLIGRAMS PER LITER	OHIO EPA GUIDELINE LEVEL	Did Akron water meet EPA limit?
Alkalinity	77	34	108	no EPA limit	not applicable
Hardness in milligrams per liter	117	52	152	no EPA limit	not applicable
Hardness in grains per gallon	6.8 grains/gallon	3.0 grains/gallon	8.9 grains/gallon	no EPA limit	not applicable
Orthophosphate	0.889	0.489 (29 of 30, 96.7%, greater	1.550	0.6 or more for 90% of samples	yes
pH	7.34	7.01	7.80	7.0-10.5 for 90% of samples	yes
Temperature, degrees Celsius	13.7	1.3	26.0	no EPA limit	not applicable
Total Organic Carbon	2.55	1.82	3.25	no EPA limit	not applicable

VOLATILE ORGANIC CHEMICALS (VOCs)	AKRON WATER	AKRON WATER	AKRON WATER	OHIO EPA	Did Akron
	AVERAGE LEVEL	MINIMUM LEVEL	MAXIMUM LEVEL	MAXIMUM LIMIT	water meet
	MICROGRAMS PER LITER	MICROGRAMS PER LITER	MICROGRAMS PER LITER	MICROGRAMS PER LITER	EPA limit?
Benzene	<0.50	<0.50	<0.50	5	yes
Bromobenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Bromochloromethane	<0.50	<0.50	<0.50	no EPA limit	not applicable
Bromodichloromethane	11.3	<0.5	20.6	no EPA limit	not applicable
Bromoform	<0.5	<0.5	<0.5	no EPA limit	not applicable
Bromomethane	<0.50	<0.50	<0.50	no EPA limit	not applicable
n-Butylbenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
sec-Butylbenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
tert-Butylbenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Carbon Tetrachloride	<0.50	<0.50	<0.50	5	yes
Chlorobenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Chloroethane	<0.50	<0.50	<0.50	no EPA limit	not applicable
Chloroform	24.4	<0.5	59.4	no EPA limit	not applicable
Chloromethane	<0.50	<0.50	<0.50	no EPA limit	not applicable
2-Chlorotoluene	<0.50	<0.50	<0.50	no EPA limit	not applicable
4-Chlorotoluene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Dibromoacetic acid	1.5	<1	9	no EPA limit	not applicable
Dibromochloromethane	3.0	<0.5	5.1	no EPA limit	not applicable
Dibromomethane	<0.50	<0.50	<0.50	5	yes
Dichloroacetic acid	12.4	<1	18	no EPA limit	not applicable
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
1,4-Dichlorobenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Dichlorodifluoromethane	<0.50	<0.50	<0.50	no EPA limit	not applicable
1,1-Dichloroethane	<0.50	<0.50	<0.50	5	yes
1,2-Dichloroethane	<0.50	<0.50	<0.50	no EPA limit	not applicable
1,1-Dichloroethene	<0.50	<0.50	<0.50	no EPA limit	not applicable
cis-1,2-Dichloroethene	<0.50	<0.50	<0.50	no EPA limit	not applicable
trans-1,2-Dichloroethene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Dichloromethane	<0.50	<0.50	<0.50	5	yes
1,2-Dichloropropane	<0.50	<0.50	<0.50	5	yes
1,3-Dichloropropane	<0.50	<0.50	<0.50	no EPA limit	not applicable
2,2-Dichloropropane	<0.50	<0.50	<0.50	no EPA limit	not applicable
1,1-Dichloropropene	<0.50	<0.50	<0.50	no EPA limit	not applicable
cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	no EPA limit	not applicable
trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Ethylbenzene	<0.50	<0.50	<0.50	700	yes
Hexachlorobutadiene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Isopropylbenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
4-Isopropyltoluene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Methyl-t-butyl ether	<0.50	<0.50	<0.50	no EPA limit	not applicable
Monobromoacetic acid	<1.0	<1.0	<1.0	no EPA limit	not applicable
Monochloroacetic acid	<2.0	<2.0	<2.0	no EPA limit	not applicable
Napthalene	<0.50	<0.50	<0.50	no EPA limit	not applicable
n-Propylbenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Styrene	<0.50	<0.50	<0.50	100	yes
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	no EPA limit	not applicable
1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	no EPA limit	not applicable
Tetrachloroethene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Toluene	<0.50	<0.50	<0.50	1,000	yes
Trichloroacetic acid	9.3	<1	19.5	no EPA limit	not applicable
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	no EPA limit	not applicable
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	70	yes
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	5	yes
Trichloroethene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Trichlorofluoromethane	<0.50	<0.50	<0.50	no EPA limit	not applicable
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	no EPA limit	not applicable
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Vinyl Chloride	<0.50	<0.50	<0.50	2	yes
m+p-Xylene	<1.0	<1.0	<1.0	no EPA limit	not applicable
o-Xylene	<0.5	<0.5	<0.5	no EPA limit	not applicable
m+p-Xylene + o-Xylene = Xylene (total)	<1.5	<1.5	<1.5	10	yes

DEFINITIONS:

"Plant tap" is the sampling point at the water treatment plant after the last treatment process.

A "primary EPA limit" is the maximum level above which adverse health effects may occur.

A "secondary EPA limit" is the maximum limit above which adverse aesthetic (staining, color, odor, taste), non-health related effects may occur.

< is a symbol meaning "less than" the detection limit of the lab instrument, or so low that it is below the detection limit.