

Analytical Averages of Distribution System Water - 2022

Schedule 1 - Microbiological Parameters

Analysis	Unit	MECP MAC Standard	MECP Aesthetic Objective	MECP Operational Guideline	Detection Limit	Acton Distribution	Burlington Distribution	Campbellville Distribution	Georgetown Distribution	Milton Distribution Well Based	Milton Distribution Lake Based	Oakville Distribution	Bridgeview Distribution	North Aldershot Distribution	Snake Road Distribution
Presence/Absence - E. coli	P/A/100mL	Absent			NA	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
Presence/Absence - Total Coliform	P/A/100mL	Absent			NA	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
Heterotrophic Plate Count	CFU/1 mL			500 ²	0	0	0	0	0	0	0	1	2	56	2
Chlorine - Free	mg/L	0.05 - 4.0		0.2	0.01	1.19	1.12	1.16	1.18	1.24	1.12	1.02			
Chlorine - Total	mg/L				0.01	1.32	1.30	1.28	1.30	1.37	1.28	1.19	1.22	0.94	0.97
Chlorine - Combined	mg/L	0.25 - 3.0		1.0	0.01								1.16 *	0.87 *	0.91 *

Table 4 - Chemical / Physical Parameters

Parameter	Unit	MECP Standard	Acton	Burlington	Campbellville	Georgetown	Milton Well Based	Milton Lake Based	Oakville	Bridgeview	North Aldershot	Snake Road		
Alkalinity	mg/L		30 - 500	2.0	262	92.2	312	265	250	94.0	91.0	86.4	88.8	84.8
Ammonia Nitrogen	mg/L			0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.24	0.11	0.29
Calcium	mg/L			0.5	87.1	35.1	90.4	94.8	74.0	37.2	35.2	32.4	34.3	32.4
Chloride	mg/L	250		1.0	69.8	30.1	267	115	92.2	32.0	30.6	30.9	30.5	29.9
Colour	TCU	5		1	1	1	1	1	1	1	1	<1	<1	<1
Conductivity	µS/cm			0.5	688	323	1400	890	792	330	328	330	335	331
Dissolved Organic Carbon	mg/L	5		0.20	1.4	1.6	0.82	0.72	0.80	1.5	1.5	1.8	1.8	1.9
pH			6.5 - 8.5	1.00	7.37	7.77	7.45	7.53	7.55	7.93	7.77	7.56	7.79	7.59
Sulphate	mg/L	500		10	22.3	23.5	23.1	38.6	39.6	22.8	23.4	20.9	21.0	21.0
TKN (Total Kjeldhal Nitrogen)	mg/L			0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.3	0.2	0.4
Total Dissolved Solids	mg/L	500		25	428	181	777	519	450	185	188	200	207	199
Total Hardness	mg/L		80 - 100	1.5	313	122	351	341	309	124	122	121	123	123
(for Dishwashers)	grains/gal				22.0	8.6	24.6	23.9	21.7	8.7	8.6	8.5	8.6	8.6
Aluminum	mg/L		0.1	0.002	<0.002	0.074	0.003	0.002	0.002	0.042	0.080	0.051	0.031	0.039
Cobalt	mg/L			0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Copper	mg/L	1		0.001	0.048	0.002	0.009	0.004	0.005	0.007	0.003	0.002	0.002	0.001
Iron	mg/L	0.3		0.001	0.007	0.008	0.008	0.003	0.003	0.003	0.005	0.031	0.043	0.059
Manganese	mg/L	0.05		0.0005	0.0011	0.0006	<0.0005	0.0016	0.0005	0.0006	0.0006	0.0014	0.0019	0.0024
Molybdenum	mg/L			0.0005	0.0007	0.0011	0.0005	0.0005	0.0009	0.0012	0.0011	0.0013	0.0012	0.0013
Nickel	mg/L			0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	<0.001	<0.001	<0.001
Zinc	mg/L	5		0.001	0.020	0.002	0.005	0.002	0.001	0.002	0.001	<0.001	<0.001	<0.001

Schedule 13 - Chemical Parameters

Parameter	Unit	MECP Standard	Acton	Burlington	Campbellville	Georgetown	Milton Well Based	Milton Lake Based	Oakville	Bridgeview	North Aldershot	Snake Road		
Fluoride	mg/L	1.5	0.5 - 0.8 ³	0.02	0.74	0.74	0.08	0.75	0.11	0.69	0.64	0.66	0.64	0.65
Nitrate Nitrogen	mg/L	10		0.04	1.46	0.34	1.24	1.79	0.42	0.36	0.33	0.34	0.37	0.38
Nitrite Nitrogen	mg/L	1		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01
Sodium	mg/L	20 ⁴	200 ⁵	1.0	33.3	16.0	159	55.2	47.0	17.4	15.9	14.3	14.0	13.5
Turbidity	NTU	1 ⁶	5 ⁷	0.05	0.08	0.09	0.10	0.10	0.11	0.10	0.09	0.19	0.43	0.47
Bromodichloromethane ⁹	µg/L			0.10	10.0	7.9	3.9	5.2	7.3	11.5	9.1	8.7	8.7	8.8
Bromoform ⁹	µg/L			0.20	1.9	0.5	1.0	3.5	5.2	0.9	0.6	0.3	0.3	0.3
Chloroform ⁹	µg/L			0.10	18.2	13.8	3.6	2.0	7.5	19.2	14.9	10.5	10.7	10.7
Dibromochloromethane ⁹	µg/L			0.20	5.7	4.0	4.0	7.5	9.0	6.2	4.8	3.6	3.6	3.6
Total THMs	µg/L	100 ⁸		0.20	40.7	30.0 ¹⁰	12.8	19.7	27.9	30.0 ¹⁰	30.0 ¹⁰	21.6	22.3	22.2
Dibromoacetic Acid ⁹	µg/L			5.0		<5.0				<5.0	<5.0	<5.0	<5.0	<5.0
Dichloroacetic Acid ⁹	µg/L			5.0		5.5				9.9	6.9	<5.0	<5.0	<5.0
Monobromoacetic Acid ⁹	µg/L			5.0		<5.0				<5.0	<5.0	<5.0	<5.0	<5.0
Monochloroacetic Acid ⁹	µg/L			5.0		<5.0				<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroacetic Acid ⁹	µg/L			5.0		5.0				5.5	5.2	<5.0	<5.0	<5.0
Total HAAs	µg/L	80		5.0		8.1 ¹⁰				8.1 ¹⁰	8.1 ¹⁰	<5.0	<5.0	<5.0

Schedule 23 - Inorganic Parameters

Parameter	Unit	MECP Standard	Acton	Burlington	Campbellville	Georgetown	Milton Well Based	Milton Lake Based	Oakville	Bridgeview	North Aldershot	Snake Road
Cadmium	mg/L	0.005		0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Chromium	mg/L	0.05		0.001	<0.001	<0.001	0.001	0.001	0.001	0.001	<0.001	<0.001

NOTES:

- ¹ This is an internal Halton Region guideline and is not reportable to the Ministry of the Environment, Conservation and Parks (MECP) if adverse.
- ² This is an internal Halton Region guideline and is not reportable to the MECP if adverse. Increases in HPC concentrations above baseline levels are considered undesirable.
- ³ This guideline applies only when Fluoride is added. Campbellville and well based Milton do not have Fluoride added to the water supply.
- ⁴ Defined as adverse under Reg. 170/03. At 20 mg/L, the Medical Officer of Health is to be notified, who in turn notifies local physicians so that patients on sodium restricted diets can be informed.
- ⁵ At 200 mg/L, MECP Aesthetic Objective.
- ⁶ This standard applies to treated water entering the distribution system.
- ⁷ This objective applies to water in the distribution system.
- ⁸ This standard applies to a running annual average for all distribution sites, as per MECP calculation.
- ⁹ This result is based on an annual average.
- ¹⁰ This is a running average for the South Halton Water Distribution System (Oakville, Burlington, Milton Lake Based) as per MECP calculation.

* This system operates under chloramination.

MAC = Maximum Acceptable Concentration

Schedule 23 and 24 from the Ontario Drinking Water Quality Standards Reg. 169/03 and 170/03 have been analyzed for all treated waters entering the distribution system, where required, and were found to be below the MAC health standard or aesthetic objective required.

To convert mg/L to grains/gallon: mg/L x 0.07016 = grains/imperial gallon