

PARAMETERS	HEALTH CANADA RECOMMENDATIONS (2008)	QUEBEC REGULATION DRINKING WATER QUALITY (Q-2,r.40)	MONTREAL'S DRINKING WATER CONCENTRATION		
			MIN.	AVE.	MAX
PHYSICAL PROPERTIES					
Color (T.C.U.) **	≤ 15 ¹	-	0	0,54	3
pH	6,5-8,5	6,5-8,5	6,9	7,1	7,2
Turbidity (N.T.U.) (Pierrefonds)	≤ 1 ⁵	≤ 5 / ≤ 1 ²	0,15	0,24	0,38
Turbidity (N.T.U.) (Dollard-des-Ormeaux)	≤ 1 ⁵	≤ 5 / ≤ 1 ²	0,15	0,22	0,30
Turbidity (N.T.U.) (Senneville)	≤ 1 ⁵	≤ 5 / ≤ 1 ²	0,17	0,30	0,46
BIOLOGICAL CHARACTERISTICS					
Pierrefonds-Roxboro			ANNUAL AVERAGE		
Total coliforms (C.F.U./100mL)	> 90 % ABS ⁴	> 90 % ABS ⁴	99.9 % ABS ⁴		
E.coli (C.F.U./100mL)	ABS ⁴	< 1 or ABS ⁴	100 % ABS ⁴		
HPC (C.F.U./mL)	-	-	< 0.9 (geometric mean)		
Dollard-Des-Ormeaux					
Total coliforms (C.F.U./100mL)	> 90 % ABS ⁴	> 90 % ABS ⁴	100 % ABS ⁴		
E.coli (C.F.U./100mL)	ABS ⁴	< 1 or ABS ⁴	100 % ABS ⁴		
HPC (C.F.U./mL)	-	-	< 0.9 (geometric mean)		
Senneville (aqueduc Phillips)					
Total coliforms (C.F.U./100mL)	> 90 % ABS ⁴	> 90 % ABS ⁴	100 % ABS ⁴		
E.coli (C.F.U./100mL)	ABS ⁴	< 1 or ABS ⁴	100 % ABS ⁴		
HPC (C.F.U./mL)	-	-	< 0.9 (geometric mean)		

INORGANIC AND ORGANIC CHEMICAL CHARACTERISTICS (mg/L)

			MIN	AVE.	MAX
Antimony	≤ 0,006	≤ 0,006	0,00006	0,00006	0,00006
Alkalinity (eq.CaCO ₃) **	-	-	18	31	48
Aluminum (Al)	≤ 0,1	-	0,01777	0,03043	0,06110
Silver (Ag)	-	-	<0.00003	0,00003	0,00004
Arsenic (As)	≤ 0,01	≤ 0,010	0,00025	0,00025	0,00025
Barium (Ba)	≤ 1	≤ 1,0	0,01625	0,01625	0,01625
Bore (B)	≤ 5	≤ 5,0	0,05	0,05	0,05
Bromated (BrO ₃)*	≤ 0,01	≤ 0,010	<0,1	<0,1	<0,1
Cadmium (Cd)	≤ 0,005	≤ 0,005	<0.00003	<0.00003	<0.00003
Calcium (Ca)	-	-	11,52	16,59	21,23
Total Organic Carbon (TOC) **	-	-	1,86	2,30	3,18
Chromium (Cr)	≤ 0,05	≤ 0,050	0,0001	0,0001	0,0001
Cobalt (Co)	-	-	<0.00003	0,00080	0,00626
Copper (Cu)	≤ 1,0 ¹	≤ 1,0	0,0205	0,0205	0,0205
Cyanides (CN)	≤ 0,2	≤ 0,20	<0.004	<0.004	<0.004
Total Hardness (eq.CaCO ₃) **	-	-	30	54	81
Iron (Fe)	≤ 0,3 ¹	-	0,01	0,02	0,04
Fluorides (F)	≤ 1,5	≤ 1,50	0,03	0,03	0,03
Magnesium (Mg)	-	-	1,72	2,60	3,53
Manganese (Mn)	≤ 0,05 ¹	-	0,00251	0,00722	0,03000
Mercury (Hg)	≤ 0,001	≤ 0,001	<0.00003	<0.00003	<0.00003
Nickel (Ni)	-	-	0,00024	0,00100	0,00371
Nitrites + nitrates (N)	≤ 45	≤ 10,0	0,188	0,310	0,430
Lead (Pb)	≤ 0,01	≤ 0,010	0,00154	0,00154	0,00154
Potassium (K)	-	-	0,63	0,78	1,09
Selenium (Se)	≤ 0,01	≤ 0,010	<0,0002	<0,0002	<0,0002
Sodium (Na)	≤ 200 ¹	-	3,39	5,41	7,75
Uranium (U)	≤ 0,02	≤ 0,020	0,00001	0,00001	0,00001
Zinc (Zn)	≤ 5,0 ¹	-	0,00049	0,00220	0,01048

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			MAXIMUM DETECTED
ORGANIC COMPOUNDS			
CARBAMATES (µg/L)			
Bendiocarb*	≤ 40	≤ 40	N.D.
Carbaryl*	≤ 90	≤ 90	N.D.
Carbofuran*	≤ 90	≤ 90	N.D.
VOLATILE ORGANIC COMPOUNDS (VOC) (µg/L)			
1,1,1,2-Tétrachloroethane	-	-	N.D.
1,1,1-Trichloroethane	-	-	N.D.
1,1,2,2-Tétrachloroethane	-	-	N.D.
1,1,2-Trichloroethane	-	-	N.D.
1,1-Dichloroethane	-	-	N.D.
1,1-Dichloroethylene	≤ 14	≤ 14	N.D.
1,1-Dichloropropene	-	-	N.D.
1,2,3-Trichlorobenzene	-	-	N.D.
1,2,3-Trichloropropane	-	-	N.D.
1,2,4-Trichlorobenzene	-	-	N.D.
1,2,4-Triméthylbenzene	-	-	N.D.
1,2-Dibromo-3-chloropropane	-	-	N.D.
1,2-Dibromoethane	-	-	N.D.
1,2-Dichlorobenzene	≤ 200	≤ 200	N.D.
1,2-Dichloroethane	≤ 5	≤ 5	N.D.
1,2-Dichloropropane	-	-	N.D.
1,3,5-Triméthylbenzene	-	-	N.D.
1,3-Dichlorobenzene	-	-	N.D.
1,3-Dichloropropane	-	-	N.D.
1,4-Dichlorobenzene	≤ 5	≤ 5	N.D.
1-Chlorobutane	-	-	N.D.
1-Propene,3-chloro	-	-	N.D.
2,2-Dichloropropane	-	-	N.D.
2-Butanone	-	-	N.D.
2-Chlorotoluene	-	-	N.D.
2-Nitropropane	-	-	N.D.
4-Chlorotoluene	-	-	N.D.
4-Isopropyltoluene	-	-	N.D.
Acrylonitrile	-	-	N.D.
Benzene	≤ 5	≤ 5	N.D.
Bromobenzene	-	-	N.D.
Bromochloromethane	-	-	N.D.
Bromoform (Pierrefonds)	-	See note 3	N.D.
Bromoform (Dollard-des-Ormeaux)	-	See note 3	N.D.
Bromoform (Senneville)	-	See note 3	N.D.
Bromodichloromethane (Pierrefonds)	-	See note 3	7,2
Bromodichloromethane (Dollard-des-Ormeaux)	-	See note 3	7,7
Bromodichloromethane (Senneville)	-	See note 3	6,5
Bromomethane	-	-	N.D.
Chloroacetonitrile	-	-	N.D.
Chlorobenzene	≤ 80	≤ 80	N.D.

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Chlorodibromomethane (Pierrefonds)	-	See note 3	1,3
Chlorodibromomethane (Dollard-des-Ormeaux)	-	See note 3	1,5
Chlorodibromomethane (Senneville)	-	See note 3	1,2
Chloroethane	-	See note 3	N.D.
Chloroform (Pierrefonds)	-	See note 3	43,9
Chloroform (Dollard-des-Ormeaux)	-	See note 3	41,2
Chloroform (Senneville)	-	See note 3	35,8
Chloromethane	-	-	N.D.
Vinyl chloride	≤ 2	≤ 2	N.D.
cis-1,2-Dichloroethylene	-	-	N.D.
cis-1,3-Dichloropropene	-	-	N.D.
Dibromomethane	-	-	N.D.
Dichlorodifluoromethane	-	-	N.D.
Dichloromethane	≤ 50	≤ 50	N.D.
Diethylether	-	-	N.D.
Carbon disulfide	-	-	N.D.
Ethylbenzene	≤ 2,4 ¹	-	N.D.
Hexachlorobutadiene	-	-	N.D.
Hexachloroethane	-	-	N.D.
Isopropylbenzene	-	-	N.D.
Methacrylonitrile	-	-	N.D.
Methyl acrylate	-	-	N.D.
Methyl methacrylate	-	-	N.D.
MTBE(methyl tert-butyl ether)	-	-	N.D.
m-Xylene + p-Xylene + o-Xylene	≤ 300 ¹	-	N.D.
Naphthalene	-	-	N.D.
n-Butylbenzene	-	-	N.D.
n-Propylbenzene	-	-	N.D.
Propionitrile	-	-	N.D.
sec-Butylbenzene	-	-	N.D.
Styrene	-	-	N.D.
tert-Butylbenzene	-	-	N.D.
Tetrachloroethylene	≤ 30	≤ 30	N.D.
Carbon tetrachloride	5	≤ 5	N.D.
Tetrahydrofurane	-	-	N.D.
Toluene	≤ 24 ¹	-	N.D.
trans-1,2-Dichloroethylene	-	-	N.D.
trans-1,3-Dichloropropene	-	-	N.D.
Trans-1,4-dichloro-2-butene	-	-	N.D.
Trichloroethylene	≤ 5	≤ 50	N.D.
Trichlorofluoromethane	-	-	N.D.
Trihalomethanes (THM) (total) (Pierrefonds)	-	Voir note 3	52,3 ⁶
Trihalomethanes (THM) (total) (Dollard-des-Ormeaux)	-	Voir note 3	49,6 ⁶

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Trihalomethanes (THM) (total) (Senneville)	-	Voir note 3	43,5 ⁶
Trihalomethanes (THM) (total) – Annual mean concentration (Pierrefonds)	≤ 100	≤ 80 ³	26,9
Trihalomethanes (THM) (total) – Annual mean concentration (Dollard-des-Ormeaux)	≤ 100	≤ 80 ³	32,2
Trihalomethanes (THM) (total) – Annual mean concentration (Senneville)	≤ 100	≤ 80 ³	29,6
PHENOLIC COMPOUNDS (µg/L)			
2,3,4,6-Tetrachlorophenol *	≤ 100	≤ 100	N.D.
2,4 -Dichlorophenol *	≤ 900	≤ 900	N.D.
2,4,6-Trichlorophenol *	≤ 5	≤ 5	N.D.
Pentachlorophenol *	≤ 60	≤ 60	N.D.
GLYPHOSATE (µg/L)			
Glyphosate*	≤ 280	≤ 280	N.D.
PAH (µg/L)			
Benzo(a)pyrene *	≤ 0,01	≤ 0,01	N.D.
TRIAZINES HERBICIDES (µg/L)			
Atrazine and metabolites*	≤ 5	≤ 5	N.D.
Cyanazine*	≤ 10	≤ 10	N.D.
Metribuzine*	≤ 80	≤ 80	N.D.
Simazine*	≤ 10	≤ 10	N.D.
CHLOROPHENOXY ACID AND TRICHLOROACETATE PESTICIDES (µg/L)			
2,4-D*	≤ 100	≤ 100	N.D.
Dicamba*	≤ 120	≤ 120	N.D.
Dinoseb*	≤ 10	≤ 10	N.D.
Picloram*	≤ 190	≤ 190	N.D.
ORGANOCHLORINE PESTICIDES (µg/L)			
Metolachlor*	≤ 50	≤ 50	N.D.
Methoxychlor *	≤ 900	≤ 900	N.D.
Trifluralin*	≤ 45	≤ 45	N.D.
ORGANOPHOSPHORUS PESTICIDES (µg/L)			
Azinphos-methyl*	≤ 20	≤ 20	N.D.
Chlorpyrifos*	≤ 90	≤ 90	N.D.
Diazinon *	≤ 20	≤ 20	N.D.
Dimethoate*	≤ 20	≤ 20	N.D.
Diuron*	≤ 150	≤ 150	N.D.
Malathion*	≤ 190	≤ 190	N.D.
Parathion *	≤ 50	≤ 50	N.D.
Phorate*	≤ 2	≤ 2	N.D.
Terbufos*	≤ 1	≤ 1	N.D.
OTHERS (µg/L)			
Bromoxynil*	≤ 5	≤ 5	N.D.
Methyl-Diclofop*	≤ 9	≤ 9	N.D.
Diquat *	≤ 70	≤ 70	N.D.
Paraquat *	≤ 10	≤ 10	1,1

* : Analyzed by an outside accredited laboratory
** : At the exit of water treatment plant
N.D. : Not detected, lower than the detection limit method
D. : Detected, but cannot determine quantity

Notes :

- 1 Esthetical or organoleptic reasons
- 2 Turbidity must be equal or under 5 NTU and must not overpass 1,0 NTU for more than 5 % of total measures taken within 30 days.
- 3 The annual mean concentration of total THM (chloroform, bromodichloromethane, chlorodibromomethane and bromoform) must not exceed 80 µg/L (samples taken at the end of drinking water distribution network)
- 4 ABS : absence
- 5 Health reasons objectives
- 6 Maximum obtained for a sampling site