

TABLE 3. 2005 TREATED WATER QUALITY BELOW CHARTERS PLANT

PARAMETER		2005 ANALYTICAL RESULTS				2005 CANADIAN GUIDELINES	TEN YEAR RESULTS (1996-2005)			Division
Parameter	Units of	Median	Samples	Range			Median	Samples	Range	Sampling
Name	Measure	Value	Analyzec	Min.	Max.		Value	Analyzec	Min.-Max.	Frequency
Physical Parameters										
Alkalinity, Tota	mg/L	14.6	30	12.8	16.5		13.9	356	4.44 - 17.1	26/yr
Colour, True	TCU	6.0	51	3.8	8.1	≤15 AO	6.2	513	2.1 - 27	52/yr
Conductivity @ 25 C	uS/cm	44.6	50	41.0	48.0		43.1	503	27.7 - 56.0	52/yr
pH	pH units	7.20	51	6.91	7.43	6.5 - 8.5 AO	7.25	508	6.61 - 7.76	52/yr
Turbidity, Grab Samples	NTU	0.32	51	0.20	0.46	1 MAC and ≤ 5 AO	0.29	510	0.10 - 6.4	52/yr
Water Temp., Field	degrees C	11.0	52	2.9	17.3	≤ 15 AO	10.5	521	2.0 - 22.5	52/yr
Microbial Parameters										
Coliform Bacteria										
Coliform, Tota	CFU/100 mL	0	52			0 MAC	0	517	0 - 4	52/yr
Coliform, Feca	CFU/100 mL	0	52			0 MAC	0	516	0 - 1	52/yr
Coliform, Background	CFU/100 mL	0	52	0	5	200 MAC	0	517	0 - 3000	52/yr
Heterotrophic Bacteria										
Hetero. Plate Count, 35C (2 day)	CFU/1 mL	Discontinued in 2005				500 MAC	1	432	0 - 430	52/yr
Hetero. Plate Count, 28C (7 day)	CFU/1 mL	0	46	0	670		10	485	0 - 5,800	52/yr
Disinfectants										
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Chlorine, Total Residual	mg/L as Cl ₂	1.33	52	0.9	1.52	3.0 MAC (chloramines)	1.15	525	0.14 - 1.75	52/yr
Disinfection By-Products										
Trihalomethanes (THMs)										
Bromodichloromethane	ug/L					16 MAC	0.3	15	0.1 - 0.8	Special
Bromoform	ug/L						<0.2	15	<0.2 - <0.6	Special
Chloroform	ug/L						4	15	2.1 - 18.2	Special
Dibromochloromethane	ug/L						<0.1	15	<0.1 - <0.5	Special
Total Trihalomethanes	ug/L					100 MAC	4.4	15	2.3 - 19.0	Special

mg/L = milligrams per litre
ug/L = micrograms per litre

CFU = Colony Forming Units
TCU = True Colour Units
NTU = Nephelometric Turbidity Units

AO = Aesthetic Objective
IMAC = Interim Max. Acceptable Concentration
MAC = Max. Acceptable Concentration