

TABLE 3. 2007 TREATED WATER QUALITY BELOW CHARTERS PLANT

| PARAMETER | | 2007 ANALYTICAL RESULTS | | | | 2007 CANADIAN GUIDELINES | TEN YEAR RESULTS (1998-2007) | | | |
|----------------------------------|-------------------------|------------------------------|----------|-------|------|---------------------------|------------------------------|----------|-------------|--------------|
| Parameter | Units of | Median | Samples | Range | | ≤ = Less than or equal to | Ten Year | Samples | Range | Sampling |
| Name | Measure | Value | Analyzed | Min. | Max. | | Median | Analyzed | Min.-Max. | Frequency |
| Physical Parameters | | | | | | | | | | |
| Alkalinity, Tota | mg/L | 12.8 | 16 | 11.6 | 14 | | 13.8 | 317 | 4.44 - 17.1 | 12/yr |
| Colour, True | TCU | 6.6 | 52 | 3.8 | 8.8 | ≤ 15 AO | 6.2 | 511 | 2.1 - 18 | 52/yr |
| Conductivity @ 25 C | uS/cm | 41.8 | 52 | 40.2 | 44.2 | | 43.4 | 503 | 27.7 - 56 | 52/yr |
| pH | pH units | 7.22 | 52 | 6.96 | 7.4 | 6.5 - 8.5 AO | 7.25 | 509 | 6.61 - 7.71 | 52/yr |
| Turbidity, Grab Samples | NTU | 0.33 | 52 | 0.22 | 1.11 | | 0.31 | 512 | 0.10 - 6.4 | 52/yr |
| Water Temperature, Grab Sample: | degrees C | 10.9 | 51 | 3.5 | 18.1 | ≤ 15 AO | 10.6 | 518 | 2.0 - 22.2 | 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 | (Discontinued in April 2006) | | | | 0 MAC | 0 | 425 | 0 - 1 | Discontinued |
| <i>E. coli</i> | CFU/100 mL | 0 | 52 | | | 0 MAC | 0 | 92 | | 52/yr |
| Coliform, Background | CFU/100 mL | 0 | 52 | | | No Guideline Required | 0 | 517 | 0 - 122 | 52/yr |
| Heterotrophic Bacteria | | | | | | | | | | |
| Hetero. Plate Count, 28C (7 day) | CFU/1 mL | 0 | 24 | 0 | 20 | No Guideline Required | 10 | 438 | 0 - 5,800 | 26/yr |
| Hetero. Plate Count, 35C (2 day) | CFU/1 mL | Discontinued in 2005 | | | | | 1 | 345 | 0 - 361 | Discontinued |
| Disinfectants | | | | | | | | | | |
| Disinfectants | | | | | | | | | | |
| Chlorine, Total Residual | mg/L as Cl ₂ | 1.27 | 52 | 0.75 | 1.51 | 3.0 MAC (chloramines) | 1.19 | 522 | 0.14 - 1.75 | 52/yr |
| Disinfection By-Products | | | | | | | | | | |
| Trihalomethanes (THMs) | | | | | | | | | | |
| Bromodichloromethane | ug/L | Not analyzed in 2007 | | | | 16 MAC | 0.3 | 9 | 0.1 - 0.8 | Special |
| Bromoform | ug/L | Not analyzed in 2007 | | | | | <0.2 | 9 | <0.2 - <0.6 | Special |
| Chloroform | ug/L | Not analyzed in 2007 | | | | | 4.3 | 9 | 2.8 - 18.2 | Special |
| Dibromochloromethane | ug/L | Not analyzed in 2007 | | | | | <0.1 | 9 | <0.1 - <0.5 | Special |
| Total Trihalomethanes | ug/L | Not analyzed in 2007 | | | | 100 MAC | 4.5 | 9 | 3.0 - 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
MAC = Max. Acceptable Concentration