

## Nanose Bay Peninsula Distribution Water Analysis

1566 Arbutus Drive (°Bulk Water online, \*\*Sample collected at 1358 Madrona Drive)

CDWG=Canadian Drinking Water Guidelines  
OG= Operational Guidance Value

MAC=Maximum Acceptable Concentration  
AO= Asthetic Objective.

**Orange font indicates non-compliance with the Aesthetic Objective in the Canadian Drinking Water Guidelines (CDWG)**  
**Red font indicates non-compliance with the Maximum Acceptable Concentration (MAC) in the CDWG**

|                                   | Units       | CDWG     |     | 2000    | June 28 2001** | March 6 2002 | 2003     | 2004     | April 20 2005 | May 17 2006° | May 22 2007° | May 27 2008 | May 13 2009 | May 18 2010 | May 25 2011 | May 15 2012 | June 5 2013° | May 14 2014 | May 20 2015° | May 11 2016° |
|-----------------------------------|-------------|----------|-----|---------|----------------|--------------|----------|----------|---------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|--------------|--------------|
| <b>Miscellaneous Inorganics</b>   |             |          |     |         |                |              |          |          |               |              |              |             |             |             |             |             |              |             |              |              |
| Fluoride                          | mg/L        | 1.5      | MAC | 0.07    | 0.09           | 0.16         | 0.1      | <1.0     | <1.0          | <0.1         | <1.0         | <1.0        | <1.0        | <1.0        | <1.0        | 0.1         | <0.05        | 0.1         | 0.044        | 0.036        |
| Alkalinity (total as CaCO )       | mg/L        |          |     | 141     | 131            | 132          | 136      | 140      | 140           | 19           | 21           | 140         | 140         | 150         | 140         | 150         | 60           | 150         | 70.4         | 45.8         |
| <b>Anions</b>                     |             |          |     |         |                |              |          |          |               |              |              |             |             |             |             |             |              |             |              |              |
| Dissolved Sulphate                | mg/L        | 500      | AO  | 5.9     | 12.4           | 2.52         | 3.33     | 10.5     | 2.6           | 1.3          | <2.0         | 6.6         | 8           | 7           | 6.8         | 10.7        | 4.4          | 14.1        | 5.67         | 3.51         |
| Dissolved Chloride                | mg/L        | 250      | AO  | 14.8    | 15.5           | 27.82        | 24.7     | 23.3     | 22.9          | 4.2          | 4.4          | 16.7        | 14.5        | 11.1        | 13.4        | 10.5        | 7.1          | 7.6         | 14           | 7.6          |
| Nitrite                           | mg/L        | 1        | MAC | <0.002  | <0.002         | <0.006       | <0.01    | <0.1     | <0.1          | <0.01        | <0.1         | <0.1        | <0.1        | <0.1        | <0.1        | <0.05       | <0.05        | <0.05       | <0.0050      | <0.0050      |
| <b>Miscellaneous</b>              |             |          |     |         |                |              |          |          |               |              |              |             |             |             |             |             |              |             |              |              |
| Apparent Colour                   | Colour Unit |          |     | 7       | 4              | 4            | 9        | 16       | 6             | 7            | 11           | 6           | <5          | 20          | 10          | 16          | <5           | 12          | 5            | 10           |
| <b>Nutrients</b>                  |             |          |     |         |                |              |          |          |               |              |              |             |             |             |             |             |              |             |              |              |
| Total Ammonia                     | mg/L        |          |     |         |                |              |          |          |               |              |              |             |             |             | <0.01       | <0.01       | 0.02         | <0.02       | 0.0072       | 0.012        |
| <b>Physical Properties</b>        |             |          |     |         |                |              |          |          |               |              |              |             |             |             |             |             |              |             |              |              |
| Conductivity                      | µS/cm       |          |     | 300     | 321            | 324          | 320      | 357      | 356           | 55.6         | 62.5         | 339         | 338         | 335         | 326         | 334         | 144          | 366         | 199          | 122          |
| pH                                | pH          | 7.0:10.5 | AO  | 8.02    | 7.92           | 8.35         | 8.28     | 8.1      | 7.9           | 6.3          | 6.8          | 7.76        | 8.1         | 8.1         | 8.2         | 8.1         | 7.4          | 7.9         | 7.9          | 7.8          |
| TDS                               | mg/L        | 500      | AO  | 191     | 180            | 173          | 173      | 233      | 230           | 53           | 38           | 214         | 226         | 224         | 194         | 188         | 104          | 222         | 100          | 64           |
| Turbidity                         | NTU         |          |     | 0.11    | <0.05          | 0.52         | 0.07     | 0.5      | <0.5          | 0.6          | <0.5         | <0.5        | <0.5        | 0.5         | 0.5         | 0.7         | <0.5         | <0.5        | 0.24         | 0.24         |
| <b>Microbiological Parameters</b> |             |          |     |         |                |              |          |          |               |              |              |             |             |             |             |             |              |             |              |              |
| E.coli                            | MPN/100mL   | <1       | MAC |         |                |              |          |          |               | <1           | <1           | <1.0        | <1.0        | <1.0        | <1.0        | <1.0        | <1.0         | <1.0        | <1.0         | <1.0         |
| Total Coliforms                   | MPN/100mL   | <1       | MAC | <2      | <1             |              |          | <1       | <1            | <1           | 12           | <1.0        | <1.0        | <1.0        | <1.0        | <1.0        | <1.0         | <1.0        | <1.0         | <1.0         |
| <b>Calculated Parameters</b>      |             |          |     |         |                |              |          |          |               |              |              |             |             |             |             |             |              |             |              |              |
| Total Hardness (CaCO )            | mg/L        |          |     | 77      | 124.4          | 29.5         | 37.3     | 51       | 62            | 21           | 27           | 110         | 130         | 110         | 85          | 130         | 57           | 75          | 70.9         | 46           |
| Nitrate                           | mg/L        | 10       | MAC | 0.18    | <0.004         | <0.002       | 0.19     | 0.2      | <0.1          | 0.03         | <0.1         | 0.7         | 0.9         | 0.2         | <0.1        | 0.1         | 0.15         | 0.11        | 0.301        | 0.043        |
| <b>Elements</b>                   |             |          |     |         |                |              |          |          |               |              |              |             |             |             |             |             |              |             |              |              |
| Total Mercury                     | mg/L        | 0.001    | MAC | <0.05   | <0.0001        | <0.0001      | <0.0002  | <0.0002  | <0.0002       | <0.0001      | <0.0001      | <0.01       | <0.01       | <0.01       | <0.00001    | <0.00001    | <0.00001     | <0.00001    | <0.00001     | <0.00001     |
| <b>Total Metals</b>               |             |          |     |         |                |              |          |          |               |              |              |             |             |             |             |             |              |             |              |              |
| Total Aluminum                    | mg/L        | 0.1      | OG  | 0.083   | 0.043          | 0.046        | 0.006    | 0.007    | 0.008         | 0.024        | 0.03         | <0.05       | <0.005      | 0.013       | <0.005      | <0.005      | 0.011        | <0.025      | 0.0056       | 0.0075       |
| Total Antimony                    | mg/L        | 0.006    | MAC |         | <0.006         | <0.006       | <0.0002  | <0.0002  | <0.0002       | <0.0002      | <0.0002      | <0.001      | <0.0002     | <0.0002     | <0.0002     | <0.0002     | <0.0002      | <0.0005     | <0.0005      | <0.0005      |
| Total Arsenic                     | mg/L        | 0.01     | MAC | 0.005   | <0.01          | 0.01         | 0.0093   | 0.0093   | 0.0069        | 0.0002       | <0.0002      | 0.005       | 0.0044      | 0.0039      | 0.0054      | 0.0034      | 0.0014       | 0.0036      | 0.00087      | 0.00062      |
| Total Barium                      | mg/L        | 1        | MAC | 0.012   | 0.014          | 0.0099       | 0.008    | 0.012    | 0.008         | 0.005        | 0.005        | 0.007       | 0.008       | 0.012       | 0.01        | 0.013       | 0.008        | 0.0169      | 0.0103       | 0.0073       |
| Total Beryllium                   | mg/L        |          |     |         |                |              |          |          |               |              |              |             |             |             |             | <0.00004    | <0.00004     | <0.00025    | <0.0001      | <0.0001      |
| Total Bismuth                     | mg/L        |          |     |         |                |              |          |          |               |              |              |             |             |             |             | <0.001      | <0.0010      | <0.0005     | <0.001       | <0.001       |
| Total Boron                       | mg/L        | 5        | MAC | 0.09    | 0.047          | 0.187        | 0.175    | 0.167    | 0.13          | 0.006        | 0.008        | 0.05        | 0.078       | 0.072       | 0.11        | 0.053       | 0.027        | 0.061       | <0.050       | <0.050       |
| Total Cadmium                     | mg/L        | 0.005    | MAC | <0.0002 | <0.0006        | <0.0006      | <0.00001 | <0.00001 | <0.00001      | <0.00001     | <0.00001     | <0.0003     | <0.00001    | <0.00001    | <0.00001    | <0.00001    | 0.00002      | <0.00005    | <0.00001     | <0.00001     |
| Total Chromium                    | mg/L        | 0.05     | MAC | <0.001  | <0.0009        | <0.0009      | <0.0005  | <0.0005  | <0.0005       | <0.0005      | <0.0005      | <0.003      | 0.0004      | <0.0004     | <0.0004     | 0.0004      | <0.0004      | <0.0025     | <0.001       | <0.001       |
| Total Cobalt                      | mg/L        |          |     |         |                |              |          |          |               |              |              |             |             |             |             | 0.00004     | 0.00005      | <0.0005     | <0.0005      | <0.0005      |
| Total Copper                      | mg/L        | 1        | AO  | 0.008   | 0.001          | 0.004        | 0.007    | 0.082    | 0.004         | 0.013        | 0.01         | <0.005      | 0.008       | 0.008       | 0.005       | 0.011       | 0.009        | 0.0167      | 0.0146       | 0.018        |
| Total Iron                        | mg/L        | 0.3      | AO  | <0.05   | 0.032          | 0.066        | <0.1     | 0.7      | 0.1           | <0.1         | <0.1         | 0.12        | <0.01       | <0.01       | 0.045       | 0.023       | 0.015        | 0.023       | 0.0289       | 0.0175       |
| Total Lead                        | mg/L        | 0.01     | MAC | <0.001  | <0.002         | <0.002       | 0.0003   | 0.0049   | 0.0003        | 0.0002       | 0.0003       | <0.0005     | 0.0003      | 0.0004      | 0.0003      | 0.0002      | 0.0003       | <0.0005     | <0.0002      | 0.00026      |
| Total Manganese                   | mg/L        | 0.05     | AO  | 0.038   | 0.0964         | 0.0154       | 0.017    | 0.101    | 0.055         | 0.006        | <0.005       | 0.0788      | 0.0031      | 0.0557      | 0.033       | 0.063       | 0.0139       | 0.0842      | 0.0131       | 0.0166       |
| Total Molybdenum                  | mg/L        |          |     |         |                |              |          |          |               |              |              |             |             |             |             | 0.0008      | 0.0006       | 0.00121     | <0.001       | <0.001       |
| Total Nickel                      | mg/L        |          |     |         |                |              |          |          |               |              |              |             | <0.001      | <0.001      | <0.001      | <0.001      | <0.001       | <0.0010     | <0.001       | <0.001       |
| Total Selenium                    | mg/L        | 0.05     | MAC | <0.002  | 0.005          | <0.0002      | <0.0002  | <0.0002  | <0.0002       | <0.0002      | <0.0002      | <0.003      | <0.0006     | <0.0006     | <0.0006     | <0.0006     | <0.0006      | <0.0005     | <0.0001      | <0.0001      |
| Total Silicon                     | mg/L        |          |     |         |                |              |          |          |               |              |              |             |             |             |             | 10.2        | 4.49         | 11.8        | 6.39         | 4.41         |
| Total Silver                      | mg/L        |          |     |         |                |              |          |          |               |              |              |             | <0.00001    | <0.00001    | <0.00001    | <0.00001    | 0.00007      | <0.00025    | <0.00002     | <0.00002     |
| Total Strontium                   | mg/L        |          |     |         |                |              |          |          |               |              |              |             |             |             |             | 0.104       | 0.053        | 0.122       | 0.0666       | 0.0488       |
| Total Thallium                    | mg/L        |          |     |         |                |              |          |          |               |              |              |             |             |             |             | <0.00001    | 0.00002      | <0.00005    | <0.00005     | <0.00005     |
| Total Tin                         | mg/L        |          |     |         |                |              |          |          |               |              |              |             |             |             |             | <0.00001    | 0.00005      | <0.00005    | <0.0005      | <0.0005      |
| Total Titanium                    | mg/L        |          |     |         |                |              |          |          |               |              |              |             |             |             |             | 0.003       | 0.0026       | <0.0025     | <0.005       | <0.005       |
| Total Uranium                     | mg/L        | 0.02     | MAC | <.0005  | <.06           | <.02         | <0.0005  | <0.0005  | <0.0005       | <0.0005      | <0.0005      | <0.002      | <0.0004     | <0.0004     | <0.0004     | <0.0004     | <0.0004      | 0.00029     | <0.0001      | <0.0001      |
| Total Vanadium                    | mg/L        |          |     |         |                |              |          |          |               |              |              |             |             |             |             | 0.0009      | 0.0009       | 0.001       | <0.005       | <0.005       |
| Total Zinc                        | mg/L        | 5        | AO  | <.005   | 0.0018         | 0.0053       | 0.002    | 0.006    | 0.007         | 0.006        | 0.015        | <0.005      | 0.008       | 1           | 0.005       | 0.001       | 0.003        | 0.0177      | <0.005       | <0.005       |
| Total Zirconium                   | mg/L        |          |     |         |                |              |          |          |               |              |              |             |             |             |             |             |              |             | <0.0005      | <0.0005      |
| Total Calcium                     | mg/L        |          |     | 20.1    | 32.5           | 8.1          | 10       | 13.6     | 16            | 6.7          | 8.1          | 27.8        | 34.9        | 29.3        | 22          | 33.9        | 15.9         | 39.2        | 20           | 13.4         |
| Total Magnesium                   | mg/L        |          |     | 7.23    | 10.5           | 2.26         | 3        | 4.2      | 5.4           | 1            | 1.6          | 8.8         | 9.36        | 9.48        | 7.37        | 11.4        | 4.14         | 13.3        | 5.08         | 3.04         |
| Total Potassium                   | mg/L        |          |     | 1.21    | 1.1            | 1.7          | 1.7      | 1.8      | 2             | <0.4         | <0.4         | 1.5         | 1.2         | 1.2         | 1.5         | 1.4         | 0.57         | 1.4         | 0.518        | 0.379        |
| Total Sodium                      | mg/L        | 200      | AO  | 33.3    | 11.5           | 66.9         | 61.5     | 59.8     | 53.3          | 2.3          | 2.5          | 26.5        | 28.8        | 27.9        | 37.5        | 20.6        | 10.3         | 25.1        | 8.38         | 5.99         |
| Total Sulphur                     | mg/L        |          |     |         |                |              |          |          |               |              |              |             |             |             |             |             |              |             | <3.0         | <3.0         |

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|                                   | Units       | CDWG     |     | 2002         | 2003         | 2004         | April 20<br>2005 | May 17<br>2006 | May 22<br>2007 | May 27<br>2008 | May 13<br>2009 | May 18<br>2010 | May 25<br>2011 | May 23<br>2012 | June 5<br>2013° | May 14<br>2014 | May 20<br>2015° | May 11<br>2016~° |
|-----------------------------------|-------------|----------|-----|--------------|--------------|--------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|-----------------|------------------|
| <b>Miscellaneous Inorganics</b>   |             |          |     |              |              |              |                  |                |                |                |                |                |                |                |                 |                |                 |                  |
| Fluoride                          | mg/L        | 1.5      | MAC | 0.14         | 0.08         | <1.0         | <1.0             | 0.2            | <1.0           | <1.0           | <1.0           | <1.0           | <1.0           | 0.14           | <0.05           | 0.15           | 0.14            | 0.11             |
| Alkalinity (total as CaCO )       | mg/L        |          |     | 144          | 150          | 150          | 150              | 150            | 150            | 150            | 150            | 150            | 150            | 140            | 50              | 140            | 120             | 116              |
| <b>Anions</b>                     |             |          |     |              |              |              |                  |                |                |                |                |                |                |                |                 |                |                 |                  |
| Dissolved Sulphate                | mg/L        | 500      | AO  | 12.07        | 23.65        | 22.8         | 15.5             | 14.9           | 15.3           | 15.4           | 21.2           | 18.6           | 14.1           | 10.1           | 3.9             | 8              | 6.45            | 6.92             |
| Dissolved Chloride                | mg/L        | 250      | AO  | 11.28        | 9.42         | 11.6         | 10.9             | 12.8           | 9              | 13.1           | 14.2           | 9.9            | 10.5           | 13             | 6.7             | 41.7           | 29              | 26               |
| Nitrite                           | mg/L        | 1        | MAC | 0.04         | <0.01        | <0.01        | <0.1             | <0.01          | <0.1           | <0.1           | 0.1            | <0.1           | <0.1           | <0.05          | <0.05           | <0.05          | <0.0050         | <0.0050          |
| <b>Miscellaneous</b>              |             |          |     |              |              |              |                  |                |                |                |                |                |                |                |                 |                |                 |                  |
| Apparent Colour                   | Colour Unit |          |     | 45           | 14           | 22           | 6                | 14             | 12             | 18             | 19             | 6              | 20             | 16             | 5               | 6              | <5              | 10               |
| <b>Nutrients</b>                  |             |          |     |              |              |              |                  |                |                |                |                |                |                |                |                 |                |                 |                  |
| Total Ammonia                     | mg/L        |          |     |              |              |              |                  |                |                |                |                |                | 0.58           | 0.82           | 0.04            | <0.02          | 0.024           | 0.011            |
| <b>Physical Properties</b>        |             |          |     |              |              |              |                  |                |                |                |                |                |                |                |                 |                |                 |                  |
| Conductivity                      | µS/cm       |          |     | 304          | 362          | 357          | 356              | 357            | 358            | 372            | 385            | 368            | 350            | 341            | 131             | 415            | 350             | 321              |
| pH                                | pH          | 7.0:10.5 | AO  | 7.52         | 7.68         | 7.8          | 7.6              | 7.7            | 7.7            | 7.86           | 7.8            | 7.8            | 8              | 7.9            | 7.3             | 7.6            | 8.11            | 8.05             |
| TDS                               | mg/L        | 500      | AO  | 193          | 187          | 233          | 210              | 233            | 206            | 238            | 260            | 236            | 214            | 218            | 92              | 270            | 196             | 186              |
| Turbidity                         | NTU         |          |     | 0.27         | 0.36         | 0.6          | <0.5             | <0.5           | <0.5           | <0.5           | <0.5           | <0.5           | <0.5           | 0.5            | <0.5            | <0.5           | 0.12            | 0.11             |
| <b>Microbiological Parameters</b> |             |          |     |              |              |              |                  |                |                |                |                |                |                |                |                 |                |                 |                  |
| E.coli                            | MPN/100mL   | <1       | MAC |              |              |              |                  | <1             | <1             | <1.0           | <1.0           | <1.0           | <1.0           | <1.0           | <1.0            | <1.0           | <1.0            | <1.0             |
| Total Coliforms                   | MPN/100mL   | <1       | MAC |              |              | <1           | <1               | <1             | <1             | <1.0           | <1.0           | <1.0           | <1.0           | <1.0           | <1.0            | <1.0           | <1.0            | <1.0             |
| <b>Calculated Parameters</b>      |             |          |     |              |              |              |                  |                |                |                |                |                |                |                |                 |                |                 |                  |
| Total Hardness (CaCO )            | mg/L        |          |     | 128          | 149.3        | 140          | 140              | 140            | 150            | 130            | 170            | 150            | 160            | 130            | 57              | 120            | 98.7            | 96.2             |
| Nitrate                           | mg/L        | 10       | MAC | 0.04         | 0.1          | 0.2          | 0.3              | 0.04           | <0.1           | <0.1           | 0.2            | <0.1           | <0.1           | 0.08           | 0.08            | <0.05          | <0.020          | 0.04             |
| <b>Elements</b>                   |             |          |     |              |              |              |                  |                |                |                |                |                |                |                |                 |                |                 |                  |
| Total Mercury                     | mg/L        | 0.001    | MAC | <0.0001      | <0.0002      | <0.0002      | <0.0002          | <0.0001        | <0.0001        | <0.01          | <0.01          | <0.01          | <0.00001       | <0.00001       | <0.00001        | <0.00001       | <0.00001        | <0.00001         |
| <b>Total Metals</b>               |             |          |     |              |              |              |                  |                |                |                |                |                |                |                |                 |                |                 |                  |
| Total Aluminum                    | mg/L        | 0.1      | OG  | <0.009       | 0.006        | <0.005       | <0.005           | <0.005         | 0.013          | <0.05          | <0.005         | 0.009          | <0.005         | <0.005         | 0.009           | <0.025         | <0.003          | <0.003           |
| Total Antimony                    | mg/L        | 0.006    | MAC | <0.006       | 0.0003       | <0.0002      | <0.0002          | <0.0002        | <0.0002        | <0.001         | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002         | <0.0005        | <0.0005         | <0.0005          |
| Total Arsenic                     | mg/L        | 0.01     | MAC | <.01         | 0.001        | 0.0011       | 0.001            | 0.0011         | 0.0009         | 0.004          | 0.0009         | 0.0013         | 0.0014         | 0.0014         | 0.0006          | 0.00149        | 0.00113         | 0.00088          |
| Total Barium                      | mg/L        | 1        | MAC | 0.0121       | 0.033        | 0.015        | 0.023            | 0.028          | 0.03           | 0.02           | 0.032          | 0.026          | 0.013          | 0.01           | 0.007           | 0.00805        | 0.0059          | 0.0049           |
| Total Beryllium                   | mg/L        |          |     |              |              |              |                  |                |                |                |                |                |                | <0.00004       | <0.00004        | <0.00025       | <0.0001         | <0.0001          |
| Total Bismuth                     | mg/L        |          |     |              |              |              |                  |                |                |                |                |                |                | <0.001         | <0.0010         | <0.0005        | <0.001          | <0.001           |
| Total Boron                       | mg/L        | 5        | MAC | 0.058        | 0.055        | 0.065        | 0.052            | 0.058          | 0.069          | 0.05           | 0.074          | 0.06           | 0.065          | 0.064          | 0.019           | 0.074          | 0.055           | <0.050           |
| Total Cadmium                     | mg/L        | 0.005    | MAC | <0.0006      | <0.00001     | <0.00001     | <0.00001         | <0.00001       | <0.00001       | <0.0003        | <0.00001       | <0.00001       | <0.00001       | <0.00001       | <0.00001        | <0.00005       | <0.00001        | <0.00001         |
| Total Chromium                    | mg/L        | 0.05     | MAC | <0.0009      | <0.0005      | <0.0005      | <0.0005          | <0.0005        | <0.0005        | <0.003         | <0.0004        | <0.0004        | <0.0004        | <0.0004        | <0.0004         | <0.0025        | <0.001          | <0.001           |
| Total Cobalt                      | mg/L        |          |     |              |              |              |                  |                |                |                |                |                |                | 0.00004        | <0.00002        | <0.0005        | <0.0005         | <0.0005          |
| Total Copper                      | mg/L        | 1        | AO  | 0.002        | 0.004        | 0.004        | 0.002            | 0.004          | 0.005          | <0.005         | 0.004          | 0.003          | 0.003          | 0.002          | 0.005           | 0.0058         | 0.00951         | 0.0011           |
| Total Iron                        | mg/L        | 0.3      | AO  | 0.199        | 0.2          | <0.1         | <0.1             | <0.1           | <0.1           | 0.07           | 0.03           | 0.094          | 0.069          | 0.042          | <0.010          | 0.037          | 0.0434          | 0.0243           |
| Total Lead                        | mg/L        | 0.01     | MAC | <0.002       | 0.0002       | 0.0003       | 0.0003           | 0.0004         | 0.0005         | <0.0005        | 0.0005         | 0.0002         | 0.0002         | 0.0002         | 0.0002          | <0.0005        | 0.00053         | <0.0002          |
| Total Manganese                   | mg/L        | 0.05     | AO  | <b>0.175</b> | <b>0.118</b> | <b>0.102</b> | <b>0.083</b>     | <b>0.11</b>    | <b>0.123</b>   | <b>0.134</b>   | <b>0.0997</b>  | <b>0.0921</b>  | <b>0.104</b>   | <b>0.099</b>   | <0.0050         | 0.009          | 0.0149          | 0.0065           |
| Total Molybdenum                  | mg/L        |          |     |              |              |              |                  |                |                |                |                |                |                | 0.0005         | 0.0002          | 0.00033        | <0.001          | <0.001           |
| Total Nickel                      | mg/L        |          |     |              |              |              |                  |                |                |                | <0.001         | <0.001         | <0.001         | <0.001         | <0.001          | <0.0010        | 0.0017          | <0.001           |
| Total Selenium                    | mg/L        | 0.05     | MAC | 0.0002       | <0.0002      | <0.0002      | <0.0002          | <0.0002        | <0.0002        | <0.003         | <0.0006        | <0.0006        | <0.0006        | <0.0006        | <0.0006         | <0.0005        | <0.0001         | <0.0001          |
| Total Silicon                     | mg/L        |          |     |              |              |              |                  |                |                |                |                |                |                | 12.2           | 4.62            | 14.6           | 13.6            | 12.5             |
| Total Silver                      | mg/L        |          |     |              |              |              |                  |                |                |                | <0.00001       | <0.00001       | <0.00001       | <0.00001       | <0.00001        | <0.00025       | <0.00002        | <0.00002         |
| Total Strontium                   | mg/L        |          |     |              |              |              |                  |                |                |                |                |                |                | 0.132          | 0.058           | 0.118          | 0.102           | 0.102            |
| Total Thallium                    | mg/L        |          |     |              |              |              |                  |                |                |                |                |                |                | <0.00001       | <0.00001        | <0.00005       | <0.00005        | <0.00005         |
| Total Tin                         | mg/L        |          |     |              |              |              |                  |                |                |                |                |                |                | <0.0001        | <0.0001         | <0.0005        | <0.005          | <0.005           |
| Total Titanium                    | mg/L        |          |     |              |              |              |                  |                |                |                |                |                |                | 0.004          | 0.0068          | <0.0025        | <0.005          | <0.005           |
| Total Uranium                     | mg/L        | 0.02     | MAC | <0.02        | <0.0005      | <0.0005      | <0.0005          | <0.0005        | <0.0005        | <0.002         | <0.0004        | <0.0004        | <0.0004        | <0.0004        | <0.0004         | <0.00005       | <0.0001         | <0.0001          |
| Total Vanadium                    | mg/L        |          |     |              |              |              |                  |                |                |                |                |                |                | 0.0004         | 0.0005          | 0.0009         | <0.005          | <0.005           |
| Total Zinc                        | mg/L        | 5        | AO  | 0.0028       | 0.017        | 0.004        | 0.013            | 0.022          | 0.025          | 0.01           | 0.017          | 0.008          | 0.003          | <0.001         | 0.004           | 0.0215         | 0.0059          | 0.0069           |
| Total Zirconium                   | mg/L        |          |     |              |              |              |                  |                |                |                |                |                |                |                |                 |                | <0.0005         | <0.0005          |
| Total Calcium                     | mg/L        |          |     | 32.1         | 45.3         | 35           | 41.1             | 40.7           | 44.6           | 37.6           | 51.8           | 44.3           | 32.8           | 33.2           | 15.8            | 29.7           | 25.6            | 24.2             |
| Total Magnesium                   | mg/L        |          |     | 11.6         | 8.8          | 11.6         | 9.5              | 8.2            | 9.5            | 9              | 9.66           | 9.05           | 10.9           | 11.1           | 4.27            | 10.8           | 8.43            | 8.7              |
| Total Potassium                   | mg/L        |          |     | 2.4          | 2            | 2.5          | 2                | 2.1            | 2.2            | 2              | 2.2            | 1.9            | 2.3            | 2.3            | 0.62            | 2.5            | 2.06            | 1.97             |
| Total Sodium                      | mg/L        | 200      | AO  | 23.3         | 16.2         | 22.3         | 19               | 21.1           | 19.7           | 21.9           | 23.6           | 20.2           | 21.1           | 23.1           | 8.2             | 44.3           | 28.1            | 27.1             |
| Total Sulphur                     | mg/L        |          |     |              |              |              |                  |                |                |                |                |                |                |                |                 |                | <3.0            | <3.0             |

CDWG=Canadian Drinking Water Guidelines

MAC=Maximum Acceptable Concentration

OG= Operational Guidance Value

AO= Aesthetic Objective.

Orange font indicates non-compliance with the Aesthetic Objective in the Canadian Drinking Water Guidelines (CDWG)

Red font indicates non-compliance with the Maximum Acceptable Concentration (MAC) in the CDWG

|                                   | Units       | CDWG     |     | June 28<br>2001 | May 10<br>2010 | May 25<br>2011 | May 15<br>2012 | June 5<br>2013° | May 14<br>2014 | May 20<br>2015° | May 11<br>2016° |
|-----------------------------------|-------------|----------|-----|-----------------|----------------|----------------|----------------|-----------------|----------------|-----------------|-----------------|
| <b>Miscellaneous Inorganics</b>   |             |          |     |                 |                |                |                |                 |                |                 |                 |
| Fluoride                          | mg/L        | 1.5      | MAC | 0.15            | <1.0           | <1.0           | 0.16           | <0.05           | 0.16           | 0.036           | 0.03            |
| Alkalinity (total as CaCO )       | mg/L        |          |     | 145             | 150            | 150            | 160            | 48              | 140            | 49.3            | 48              |
| <b>Anions</b>                     |             |          |     |                 |                |                |                |                 |                |                 |                 |
| Dissolved Sulphate                | mg/L        | 500      | AO  | 15.4            | 14.2           | 13.7           | 15.2           | 3.9             | 7.1            | 4.49            | 3.67            |
| Dissolved Chloride                | mg/L        | 250      | AO  | 14.4            | 9.8            | 10.8           | 11.9           | 5.9             | 43.5           | 11              | 7.4             |
| Nitrite                           | mg/L        | 1        | MAC | <0.002          | <0.1           | <0.1           | <0.05          | <0.05           | <0.05          | <0.0050         | <0.0050         |
| <b>Miscellaneous</b>              |             |          |     |                 |                |                |                |                 |                |                 |                 |
| Apparent Colour                   | Colour Unit |          |     | 27              | <5             | 19             | 25             | 5               | 6              | <5              | 10              |
| <b>Nutrients</b>                  |             |          |     |                 |                |                |                |                 |                |                 |                 |
| Total Ammonia                     | mg/L        |          |     |                 |                | 0.56           | 0.91           | 0.02            | <0.02          | 0.012           | 0.014           |
| <b>Physical Properties</b>        |             |          |     |                 |                |                |                |                 |                |                 |                 |
| Conductivity                      | µS/cm       |          |     | 349             | 354            | 347            | 362            | 119             | 416            | 143             | 124             |
| pH                                | pH          | 7.0:10.5 | AO  | 7.69            | 8              | 8              | 8              | 7.3             | 7.6            | 7.69            | 7.75            |
| TDS                               | mg/L        | 500      | AO  | 200             | 236            | 210            | 210            | 92              | 278            | 68              | 80              |
| Turbidity                         | NTU         |          |     | 0.84            | <0.5           | 0.6            | 1              | <0.5            | <0.5           | 0.19            | 0.17            |
| <b>Microbiological Parameters</b> |             |          |     |                 |                |                |                |                 |                |                 |                 |
| E.coli                            | MPN/100mL   | <1       | MAC |                 | <1.0           | <1.0           | <1.0           | <1.0            | <1.0           | <1.0            | <1.0            |
| Total Coliforms                   | MPN/100mL   | <1       | MAC | <1.0            | <1.0           | <1.0           | <1.0           | <1.0            | <1.0           | <1.0            | <1.0            |
| <b>Calculated Parameters</b>      |             |          |     |                 |                |                |                |                 |                |                 |                 |
| Total Hardness (CaCO )            | mg/L        |          |     | 132.1           | 130            | 130            | 140            | 50              | 120            | 49.2            | 45.7            |
| Nitrate                           | mg/L        | 10       | MAC | 0.092           | <0.1           | <0.1           | <0.05          | <0.05           | <0.05          | 0.037           | 0.053           |
| <b>Elements</b>                   |             |          |     |                 |                |                |                |                 |                |                 |                 |
| Total Mercury                     | mg/L        | 0.001    | MAC | <0.0001         | <0.01          | <0.00001       | <0.00001       | <0.00001        | <0.00001       | <0.00001        | <0.00001        |
| <b>Total Metals</b>               |             |          |     |                 |                |                |                |                 |                |                 |                 |
| Total Aluminum                    | mg/L        | 0.1      | OG  | 0.014           | 0.009          | <0.005         | <0.005         | 0.01            | <0.025         | 0.0043          | 0.0045          |
| Total Antimony                    | mg/L        | 0.006    | MAC | <0.006          | <0.0002        | <0.0002        | <0.0002        | <0.0002         | <0.0005        | <0.0005         | <0.0005         |
| Total Arsenic                     | mg/L        | 0.01     | MAC | <0.01           | 0.0014         | 0.0013         | 0.0017         | 0.0005          | 0.0016         | 0.00039         | 0.0004          |
| Total Barium                      | mg/L        | 1        | MAC | 0.0169          | 0.014          | 0.014          | 0.016          | 0.006           | 0.00679        | 0.0067          | 0.0054          |
| Total Beryllium                   | mg/L        |          |     |                 |                |                | <0.00004       | <0.00004        | <0.00025       | <0.0001         | <0.0001         |
| Total Bismuth                     | mg/L        |          |     |                 |                |                | <0.001         | <0.0010         | <0.0005        | <0.001          | <0.001          |
| Total Boron                       | mg/L        | 5        | MAC | 0.065           | 0.066          | 0.064          | 0.063          | 0.016           | 0.083          | <0.05           | <0.050          |
| Total Cadmium                     | mg/L        | 0.005    | MAC | <0.0006         | <0.00001       | <0.00001       | <0.00001       | <0.00001        | <0.00005       | <0.00001        | <0.00001        |
| Total Chromium                    | mg/L        | 0.05     | MAC | <0.0009         | <0.0004        | <0.0004        | <0.0004        | <0.0004         | <0.0025        | <0.001          | <0.001          |
| Total Cobalt                      | mg/L        |          |     |                 |                |                | 0.00003        | <0.00002        | <0.0005        | <0.0005         | <0.0005         |
| Total Copper                      | mg/L        | 1        | AO  | 0.002           | 0.005          | 0.002          | <0.001         | 0.004           | 0.0015         | 0.00137         | 0.00131         |
| Total Iron                        | mg/L        | 0.3      | AO  | 0.507           | 0.044          | 0.07           | 0.357          | 0.027           | 0.072          | 0.0358          | 0.0286          |
| Total Lead                        | mg/L        | 0.01     | MAC | <0.002          | 0.0003         | 0.0002         | 0.0001         | 0.0004          | <0.0005        | <0.0002         | <0.0002         |
| Total Manganese                   | mg/L        | 0.05     | AO  | 0.208           | 0.106          | 0.116          | 0.175          | 0.006           | 0.017          | 0.0063          | 0.0041          |
| Total Molybdenum                  | mg/L        |          |     |                 |                |                | 0.0003         | 0.0002          | <0.00025       | <0.001          | <0.001          |
| Total Nickel                      | mg/L        |          |     |                 | <0.001         | <0.001         | <0.001         | <0.001          | <0.0010        | <0.001          | <0.001          |
| Total Selenium                    | mg/L        | 0.05     | MAC | <0.004          | <0.0006        | <0.0006        | <0.0006        | <0.0006         | <0.0005        | <0.0001         | <0.0001         |
| Total Silicon                     | mg/L        |          |     |                 |                |                | 12.1           | 4.08            | 15.7           | 4.28            | 4.34            |
| Total Silver                      | mg/L        |          |     |                 | <0.00001       | <0.00001       | <0.00001       | <0.00001        | <0.00025       | <0.00002        | <0.00002        |
| Total Strontium                   | mg/L        |          |     |                 |                |                | 0.132          | 0.051           | 0.119          | 0.0605          | 0.0483          |
| Total Thallium                    | mg/L        |          |     |                 |                |                | <0.00001       | <0.00001        | <0.00005       | <0.00005        | <0.00005        |
| Total Tin                         | mg/L        |          |     |                 |                |                | <0.0001        | <0.0001         | <0.0005        | <0.005          | <0.005          |
| Total Titanium                    | mg/L        |          |     |                 |                |                | <0.001         | 0.0011          | <0.0025        | <0.005          | <0.005          |
| Total Uranium                     | mg/L        | 0.02     | MAC | <0.06           | <0.0004        | <0.0004        | <0.0004        | <0.0004         | <0.00005       | <0.0001         | <0.0001         |
| Total Vanadium                    | mg/L        |          |     |                 |                |                | 0.0004         | 0.0004          | 0.0009         | <0.005          | <0.005          |
| Total Zinc                        | mg/L        | 5        | AO  | 0.0029          | 0.002          | 0.003          | <0.001         | 0.002           | 0.0203         | <0.005          | <0.005          |
| Total Zirconium                   | mg/L        |          |     |                 |                |                |                |                 |                | <0.0005         | <0.0005         |
| Total Calcium                     | mg/L        |          |     | 34.6            | 35.2           | 33             | 37.1           | 14              | 30.2           | 14.6            | 12.8            |
| Total Magnesium                   | mg/L        |          |     | 11.1            | 10.9           | 11             | 11.9           | 3.69            | 11             | 3.08            | 3.32            |
| Total Potassium                   | mg/L        |          |     | 2.2             | 2.3            | 2.2            | 2.4            | 0.49            | 2.8            | 0.358           | 0.37            |
| Total Sodium                      | mg/L        | 200      | AO  | 20.1            | 23.6           | 21.4           | 22.6           | 7.42            | 48.6           | 6.34            | 5.82            |
| Total Sulphur                     | mg/L        |          |     |                 |                |                |                |                 |                | <3.0            | <3.0            |

CDWG=Canadian Drinking Water Guidelines  
OG= Operational Guidance Value

MAC=Maximum Acceptable Concentration  
AO= Aesthetic Objective.

**Orange font indicates non-compliance with the Aesthetic Objective in the Canadian Drinking Water Guidelines (CDWG)**  
**Red font indicates non-compliance with the Maximum Acceptable Concentration (MAC) in the CDWG**

|                                   | Units       | CDWG     |     | June 28<br>2001 | April 23<br>2003 | 2004         | April 20<br>2005 | May 17<br>2006 | May 22<br>2007 | May 27<br>2008 | May 13<br>2009 | May 18<br>2010 | May 25<br>2011 | May 15<br>2012 | June 5<br>2013° | May 14<br>2014 | May 20<br>2015° | May 11<br>2016° |
|-----------------------------------|-------------|----------|-----|-----------------|------------------|--------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|-----------------|-----------------|
| <b>Miscellaneous Inorganics</b>   |             |          |     |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Fluoride                          | mg/L        | 1.5      | MAC | 0.17            | 0.11             | <1.0         | <1.0             | 0.2            | <1.0           | <1.0           | <1.0           | <1.0           | <1.0           | 0.15           | 0.12            | 0.16           | 0.088           | 0.1             |
| Alkalinity (total as CaCO )       | mg/L        |          |     | 145             | 147              | 140          | 150              | 160            | 310            | 140            | 150            | 150            | 140            | 140            | 130             | 140            | 85.1            | 113             |
| <b>Anions</b>                     |             |          |     |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Dissolved Sulphate                | mg/L        | 500      | AO  | 1.48            | 1.81             | 11.9         | <2               | 2.6            | 2.9            | <2.0           | 5              | 5.8            | 4.7            | 5.5            | 5.4             | 6.3            | 5.44            | 7.13            |
| Dissolved Chloride                | mg/L        | 250      | AO  | 10.8            | 17.62            | 24.3         | 17.7             | 27.3           | 19.3           | 10.8           | 15.6           | 15.7           | 16.1           | 16.5           | 39.2            | 47.4           | 20              | 25              |
| Nitrite                           | mg/L        | 1        | MAC | <0.002          | <0.01            | <0.1         | <0.1             | <0.01          | <0.1           | <0.1           | 0.1            | <0.1           | <0.1           | <0.05          | <0.05           | <0.05          | <0.0050         | <0.0050         |
| <b>Miscellaneous</b>              |             |          |     |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Apparent Colour                   | Colour Unit |          |     | 8               | 11               | 8            | 6                | 18             | 14             | 20             | 12             | 12             | 25             | 15             | 6               | 6              | 5               | 10              |
| <b>Nutrients</b>                  |             |          |     |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Total Ammonia                     | mg/L        |          |     |                 |                  |              |                  |                |                |                |                |                | 0.52           | 0.75           | 0.03            | <0.02          | 0.01            | 0.023           |
| <b>Physical Properties</b>        |             |          |     |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Conductivity                      | µS/cm       |          |     | 361             | 361              | 374          | 345              | 380            | 352            | 324            | 341            | 349            | 340            | 347            | 371             | 430            | 246             | 310             |
| pH                                | pH          | 7.0:10.5 | AO  | 7.7             | 7.78             | 7.7          | 7.7              | 7.8            | 7.7            | 7.97           | 8.1            | 7.9            | 8              | 8              | 7.7             | 7.6            | 8.02            | 8.03            |
| TDS                               | mg/L        | 500      | AO  | 187             | 187              | 250          | 220              | 213            | 202            | 212            | 230            | 232            | 202            | 204            | 240             | 268            | 128             | 164             |
| Turbidity                         | NTU         |          |     | 0.11            | 0.16             | 0.6          | <0.5             | <0.5           | <0.5           | 0.9            | <0.5           | <0.5           | 0.7            | 0.9            | <0.5            | <0.5           | 0.22            | 0.23            |
| <b>Microbiological Parameters</b> |             |          |     |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| E.coli                            | MPN/100mL   | <1       | MAC |                 |                  |              |                  | <1             | <1             | <1.0           | <1.0           | <1.0           | <1.0           | <1.0           | <1.0            | <1.0           | <1.0            | <1.0            |
| Total Coliforms                   | MPN/100mL   | <1       | MAC | <1              |                  | <1           | <1               | <1             | <1             | <1.0           | <1.0           | <1.0           | <1.0           | <1.0           | <1.0            | <1.0           | <1.0            | <1.0            |
| <b>Calculated Parameters</b>      |             |          |     |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Total Hardness (CaCO )            | mg/L        |          |     | 109.9           | 110.2            | 110          | 110              | 110            | 120            | 100            | 140            | 120            | 110            | 120            | 110             | 120            | 75.3            | 92.5            |
| Nitrate                           | mg/L        | 10       | MAC | 0.593           | <0.01            | <0.1         | <0.1             | 0.04           | <0.1           | <0.1           | <0.1           | <0.1           | <0.1           | <0.05          | <0.05           | <0.05          | 0.037           | 0.049           |
| <b>Elements</b>                   |             |          |     |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Total Mercury                     | mg/L        | 0.001    | MAC | <0.0001         | <0.0002          | <0.0002      | <0.0002          | <0.0001        | <0.0001        | <0.01          | <0.01          | <0.01          | <0.00001       | <0.00001       | <0.00001        | <0.00001       | <0.00001        | <0.00001        |
| <b>Total Metals</b>               |             |          |     |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Total Aluminum                    | mg/L        | 0.1      | OG  | 0.014           | 0.005            | <0.005       | <0.005           | <0.005         | <0.005         | <0.05          | <0.005         | 0.015          | <0.005         | <0.005         | <0.005          | <0.025         | 0.0038          | <0.003          |
| Total Antimony                    | mg/L        | 0.006    | MAC | <0.006          | <0.0002          | <0.0002      | <0.0002          | <0.0002        | <0.0002        | <0.001         | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002         | <0.0005        | <0.0005         | <0.0005         |
| Total Arsenic                     | mg/L        | 0.01     | MAC | <0.01           | 0.0009           | 0.0012       | 0.0009           | 0.0013         | 0.0008         | 0.002          | 0.0018         | 0.001          | 0.0009         | 0.0011         | 0.0012          | 0.0008         | 0.0008          | 0.0009          |
| Total Barium                      | mg/L        | 1        | MAC | <0.0006         | 0.005            | 0.005        | 0.005            | 0.005          | 0.005          | <0.005         | 0.007          | 0.006          | 0.006          | 0.006          | 0.006           | 0.00574        | 0.0052          | 0.0062          |
| Total Beryllium                   | mg/L        |          |     |                 |                  |              |                  |                |                |                |                |                |                | <0.00004       | <0.00004        | <0.00025       | <0.0001         | <0.0001         |
| Total Bismuth                     | mg/L        |          |     |                 |                  |              |                  |                |                |                |                |                |                | <0.001         | <0.0010         | <0.0005        | <0.001          | <0.001          |
| Total Boron                       | mg/L        | 5        | MAC | <0.008          | 0.08             | 0.084        | 0.066            | 0.07           | 0.078          | 0.05           | 0.063          | 0.068          | 0.071          | 0.074          | 0.068           | 0.082          | <0.05           | <0.050          |
| Total Cadmium                     | mg/L        | 0.005    | MAC | <0.0006         | <0.00001         | <0.00001     | <0.00001         | <0.00001       | <0.00001       | <0.0003        | <0.00001       | <0.00001       | <0.00001       | <0.00001       | <0.00001        | <0.00005       | <0.00001        | <0.00001        |
| Total Chromium                    | mg/L        | 0.05     | MAC | <0.0009         | <0.0005          | <0.0003      | <0.0005          | <0.0005        | <0.0005        | <0.003         | <0.0004        | 0.0004         | <0.0004        | 0.0004         | <0.0004         | <0.0025        | <0.001          | <0.001          |
| Total Cobalt                      | mg/L        |          |     |                 |                  |              |                  |                |                |                |                |                |                | 0.00004        | 0.00002         | <0.0005        | <0.0005         | <0.0005         |
| Total Copper                      | mg/L        | 1        | AO  | 0.002           | 0.002            | 0.001        | 0.002            | 0.005          | 0.002          | <0.005         | 0.001          | 0.003          | 0.002          | 0.003          | 0.005           | 0.0041         | 0.00276         | 0.00243         |
| Total Iron                        | mg/L        | 0.3      | AO  | 0.092           | 0.2              | <0.1         | 0.2              | <0.1           | <0.1           | <b>0.35</b>    | 0.19           | 0.046          | 0.082          | 0.073          | 0.099           | 0.096          | 0.0722          | 0.0781          |
| Total Lead                        | mg/L        | 0.01     | MAC | <0.002          | 0.0003           | 0.0001       | 0.0003           | 0.0001         | 0.0001         | <0.0005        | 0.0002         | 0.0002         | 0.0003         | <0.0001        | 0.0002          | <0.0005        | <0.0002         | 0.00023         |
| Total Manganese                   | mg/L        | 0.05     | AO  | <b>0.13</b>     | <b>0.174</b>     | <b>0.142</b> | <b>0.15</b>      | <b>0.087</b>   | <b>0.099</b>   | <b>0.208</b>   | <b>0.136</b>   | <b>0.0912</b>  | <b>0.103</b>   | <b>0.11</b>    | 0.0167          | 0.017          | 0.0114          | 0.0158          |
| Total Molybdenum                  | mg/L        |          |     |                 |                  |              |                  |                |                |                |                |                |                | 0.0002         | 0.0002          | 0.00037        | <0.001          | <0.001          |
| Total Nickel                      | mg/L        |          |     |                 |                  |              |                  |                |                |                | <0.001         | <0.001         | <0.001         | <0.001         | <0.001          | 0.0024         | <0.001          | <0.001          |
| Total Selenium                    | mg/L        | 0.05     | MAC | <0.004          | <0.0002          | <0.0002      | <0.0002          | <0.0002        | <0.0002        | <0.003         | <0.0006        | <0.0006        | <0.0006        | <0.0006        | <0.0006         | <0.0005        | <0.0001         | <0.0001         |
| Total Silicon                     | mg/L        |          |     |                 |                  |              |                  |                |                |                |                |                |                | 13.9           | 13.3            | 15.9           | 8.91            | 11.7            |
| Total Silver                      | mg/L        |          |     |                 |                  |              |                  |                |                |                | <0.00001       | <0.00001       | <0.00001       | <0.00001       | <0.00001        | <0.00025       | <0.00002        | <0.00002        |
| Total Strontium                   | mg/L        |          |     |                 |                  |              |                  |                |                |                |                |                |                | 0.109          | 0.115           | 0.124          | 0.0815          | 0.094           |
| Total Thallium                    | mg/L        |          |     |                 |                  |              |                  |                |                |                |                |                |                | <0.00001       | <0.00001        | <0.00005       | <0.00005        | <0.00005        |
| Total Tin                         | mg/L        |          |     |                 |                  |              |                  |                |                |                |                |                |                | 0.0002         | <0.0001         | <0.0005        | <0.005          | <0.005          |
| Total Titanium                    | mg/L        |          |     |                 |                  |              |                  |                |                |                |                |                |                | 0.002          | 0.0041          | <0.0025        | <0.005          | <0.005          |
| Total Uranium                     | mg/L        | 0.02     | MAC | <0.06           | <0.0005          | <0.0005      | <0.0005          | <0.0005        | <0.0005        | <0.002         | <0.0004        | <0.0004        | <0.0004        | <0.0004        | <0.0004         | <0.00005       | <0.0001         | <0.0001         |
| Total Vanadium                    | mg/L        |          |     |                 |                  |              |                  |                |                |                |                |                |                | 0.0006         | 0.0006          | 0.0007         | <0.005          | <0.005          |
| Total Zinc                        | mg/L        | 5        | AO  | 0.0018          | 0.003            | 0.004        | 0.006            | 0.005          | 0.009          | <0.005         | 0.006          | 0.003          | 0.003          | 0.002          | 0.004           | 0.0159         | <0.005          | 0.0076          |
| Total Zirconium                   | mg/L        |          |     |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                | <0.0005         | <0.0005         |
| Total Calcium                     | mg/L        |          |     | 27.5            | 27.3             | 28.9         | 27.8             | 28.6           | 30.6           | 25.5           | 35.8           | 31.2           | 28.6           | 32.8           | 29.5            | 31.2           | 21.3            | 24.5            |
| Total Magnesium                   | mg/L        |          |     | 10              | 10.2             | 10.3         | 10.3             | 9.7            | 10.8           | 8.9            | 11.3           | 9.82           | 9.51           | 10.1           | 9.36            | 10.3           | 5.35            | 7.63            |
| Total Potassium                   | mg/L        |          |     | 2.3             | 2.7              | 2.6          | 2                | 2.7            | 2.6            | 2.3            | 2.3            | 2.4            | 2.4            | 2.6            | 2.69            | 2.9            | 1.4             | 1.74            |
| Total Sodium                      | mg/L        | 200      | AO  | 30.7            | 28.9             | 35.4         | 29               | 34.9           | 31.3           | 23.5           | 26.9           | 26.7           | 25.8           | 27             | 42.2            | 51.6           | 17.2            | 24.5            |
| Total Sulphur                     | mg/L        |          |     |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                | <3.0            | <3.0            |

## Nanose Bay Peninsula Distribution Water Analysis 3500 Fairwinds Drive (\*Sample collected at 3541 Shelby Lane)

CDWG=Canadian Drinking Water Guidelines  
OG= Operational Guidance Value

MAC=Maximum Acceptable Concentration  
AO= Asthetic Objective.

**Orange font indicates non-compliance with the Aesthetic Objective in the Canadian Drinking Water Guidelines (CDWG)**  
**Red font indicates non-compliance with the Maximum Acceptable Concentration (MAC) in the CDWG**

|                                   | Units       | CDWG     |     | April 14<br>2000 | June 28<br>2001* | March 6<br>2002 | April 23<br>2003 | 2004         | April 20<br>2005 | May 17<br>2006 | May 22<br>2007 | May 27<br>2008 | May 13<br>2009 | May 18<br>2010 | May 25<br>2011 | May 15<br>2012 | June 5<br>2013° | May 14<br>2014 | May 20<br>2015° | May 11<br>2016° |
|-----------------------------------|-------------|----------|-----|------------------|------------------|-----------------|------------------|--------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|-----------------|-----------------|
| <b>Miscellaneous Inorganics</b>   |             |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Fluoride                          | mg/L        | 1.5      | MAC | 0.12             | 0.17             | 0.19            | 0.12             | <1.0         | <1.0             | 0.2            | <1.0           | <1.0           | <1.0           | <1.0           | <1.0           | 0.16           | 0.16            | 0.15           | 0.14            | 0.12            |
| Alkalinity (total as CaCO )       | mg/L        |          |     | 151              | 138              | 138             | 142              | 140          | 150              | 150            | 150            | 140            | 140            | 140            | 150            | 140            | 140             | 140            | 118             | 120             |
| <b>Anions</b>                     |             |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Dissolved Sulphate                | mg/L        | 500      | AO  | 0.5              | 1.26             | 0.91            | 1.36             | 16.8         | <2               | 2.6            | 2.9            | 3.4            | 4.5            | 4.6            | 4.1            | 4.2            | 5.7             | 6.3            | 6.75            | 7.11            |
| Dissolved Chloride                | mg/L        | 250      | AO  | 12.5             | 21.9             | 21.52           | 17.16            | 25.6         | 27.9             | 29.4           | 20.6           | 28.7           | 35.6           | 20.1           | 20.9           | 23.2           | 43.9            | 46             | 32              | 27              |
| Nitrite                           | mg/L        | 1        | MAC | 0.068            | 0.309            | 0.03            | <0.01            | <0.1         | <0.1             | <0.01          | <0.1           | <0.1           | <0.1           | <0.1           | <0.1           | <0.05          | <0.05           | <0.05          | <0.0050         | <0.0050         |
| <b>Miscellaneous</b>              |             |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Apparent Colour                   | Colour Unit |          |     | 15               | 12               | 13              | 10               | 24           | 20               | 28             | 19             | 24             | 55             | 19             | 26             | 36             | 6               | 6              | <5              | 15              |
| <b>Nutrients</b>                  |             |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Total Ammonia                     | mg/L        |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                | <0.01          | 0.11           | 0.02            | <0.02          | 0.019           | 0.027           |
| <b>Physical Properties</b>        |             |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Conductivity                      | µS/cm       |          |     | 291              | 352              | 327             | 355              | 376          | 380              | 386            | 352            | 380            | 394            | 354            | 348            | 353            | 401             | 426            | 348             | 329             |
| pH                                | pH          | 7.0:10.5 | AO  | 7.35             | 7.63             | 7.53            | 7.58             | 7.8          | 7.7              | 7.7            | 7.4            | 7.86           | 7.8            | 7.7            | 7.9            | 7.8            | 7.7             | 7.7            | 8.2             | 8.09            |
| TDS                               | mg/L        | 500      | AO  | 211              | 193              | 193             | 187              | 210          | 200              | 260            | 200            | 250            | 258            | 234            | 218            | 218            | 262             | 276            | 190             | 194             |
| Turbidity                         | NTU         |          |     | 1.1              | 0.15             | 0.4             | 0.38             | 0.9          | 1                | 0.9            | <0.5           | 1.2            | 1.5            | 0.9            | 1.1            | 0.9            | <0.5            | <0.5           | 0.17            | 0.16            |
| <b>Microbiological Parameters</b> |             |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| E.coli                            | MPN/100mL   | <1       | MAC |                  |                  |                 |                  |              |                  | <1             | <1             | <1.0           | <1.0           | <1.0           | <1.0           | <1.0           | <1.0            | <1.0           | <1.0            | <1.0            |
| Total Coliforms                   | MPN/100mL   | <1       | MAC | <1               | <1               |                 |                  | <1           | <1               | <1             | <1             | <1.0           | <1.0           | <1.0           | <1.0           | <1.0           | <1.0            | <1.0           | <1.0            | <1.0            |
| <b>Calculated Parameters</b>      |             |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Total Hardness (CaCO )            | mg/L        |          |     | 88               | 109.8            | 108             | 110.4            | 110          | 110              | 110            | 120            | 100            | 120            | 120            | 110            | 120            | 110             | 130            | 92.2            | 104             |
| Nitrate                           | mg/L        | 10       | MAC | 0.33             | 0.053            | 0.03            | 0.17             | <0.1         | <0.1             | 0.02           | <0.1           | <0.1           | 0.1            | <0.1           | <0.1           | <0.05          | <0.05           | <0.05          | 0.024           | 0.047           |
| <b>Elements</b>                   |             |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Total Mercury                     | mg/L        | 0.001    | MAC |                  | <0.0001          | <0.0001         | <0.0002          | <0.0002      | <0.0002          | <0.0001        | <0.0001        | <0.01          | <0.01          | <0.01          | <0.00001       | <0.00001       | <0.00001        | <0.00001       | <0.00001        | <0.00001        |
| <b>Total Metals</b>               |             |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Total Aluminum                    | mg/L        | 0.1      | OG  |                  | 0.015            | <0.009          | 0.006            | <0.005       | <0.005           | <0.005         | <0.005         | <0.05          | <0.005         | 0.01           | <0.005         | <0.005         | <0.005          | <0.025         | 0.0034          | <0.003          |
| Total Antimony                    | mg/L        | 0.006    | MAC |                  | <0.006           | <0.006          | <0.0002          | <0.0002      | <0.0002          | <0.0002        | <0.0002        | <0.001         | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002         | <0.0005        | <0.0005         | <0.0005         |
| Total Arsenic                     | mg/L        | 0.01     | MAC | 0.001            | <.01             | <.01            | 0.0009           | 0.0015       | 0.001            | 0.0014         | 0.0009         | <0.001         | 0.0013         | 0.001          | 0.001          | 0.001          | 0.0013          | 0.00136        | 0.00111         | 0.00106         |
| Total Barium                      | mg/L        | 1        | MAC | 0.005            | 0.0049           | 0.0079          | 0.006            | 0.007        | 0.007            | 0.007          | 0.007          | 0.006          | 0.007          | 0.007          | 0.008          | 0.007          | 0.005           | 0.00503        | 0.0053          | 0.0053          |
| Total Beryllium                   | mg/L        |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                | <0.00004       | <0.00004        | <0.00025       | <0.0001         | <0.0001         |
| Total Bismuth                     | mg/L        |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                | <0.001         | <0.0010         | <0.0005        | <0.001          | <0.001          |
| Total Boron                       | mg/L        | 5        | MAC | 0.1              | 0.071            | 0.074           | 0.081            | 0.085        | 0.07             | 0.07           | 0.075          | 0.06           | 0.071          | 0.071          | 0.072          | 0.07           | 0.078           | 0.089          | 0.056           | 0.053           |
| Total Cadmium                     | mg/L        | 0.005    | MAC |                  | <0.0006          | <0.0006         | <0.00001         | <0.00001     | <0.00001         | <0.00001       | <0.00001       | <0.0003        | <0.00001       | <0.00001       | <0.00001       | <0.00001       | <0.00001        | <0.00005       | <0.00001        | <0.00001        |
| Total Chromium                    | mg/L        | 0.05     | MAC |                  | <0.009           | <0.0009         | <0.0005          | <0.0005      | <0.0005          | <0.0005        | <0.0005        | <0.003         | <0.0004        | 0.0005         | <0.0004        | 0.0004         | <0.0004         | <0.0025        | <0.001          | <0.001          |
| Total Cobalt                      | mg/L        |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                | 0.00003        | 0.00003         | <0.0005        | <0.0005         | <0.0005         |
| Total Copper                      | mg/L        | 1        | AO  |                  | 0.002            | 0.003           | 0.005            | 0.006        | 0.006            | 0.004          | 0.003          | <0.005         | 0.002          | 0.004          | 0.003          | 0.002          | 0.008           | 0.0179         | 0.00399         | 0.00749         |
| Total Iron                        | mg/L        | 0.3      | AO  | 0.17             | 0.107            | <b>0.686</b>    | <b>0.3</b>       | <b>0.5</b>   | <b>0.5</b>       | <b>0.5</b>     | <b>0.6</b>     | <b>0.51</b>    | <b>0.47</b>    | <b>0.556</b>   | <b>0.64</b>    | <b>0.52</b>    | 0.057           | 0.068          | 0.0709          | 0.0752          |
| Total Lead                        | mg/L        | 0.01     | MAC |                  | <0.002           | 0.003           | 0.0004           | 0.0003       | 0.0005           | 0.0001         | 0.0001         | <0.0005        | 0.0001         | 0.0001         | 0.0002         | <0.0001        | 0.0002          | <0.0005        | <0.0002         | 0.00086         |
| Total Manganese                   | mg/L        | 0.05     | AO  | <b>0.11</b>      | <b>0.0796</b>    | <b>0.259</b>    | <b>0.101</b>     | <b>0.186</b> | <b>0.19</b>      | <b>0.182</b>   | <b>0.224</b>   | <b>0.22</b>    | <b>0.228</b>   | <b>0.209</b>   | <b>0.197</b>   | <b>0.163</b>   | 0.0176          | 0.016          | 0.0163          | 0.021           |
| Total Molybdenum                  | mg/L        |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                | <0.0001        | 0.0002          | 0.00025        | <0.001          | <0.001          |
| Total Nickel                      | mg/L        |          |     |                  |                  |                 |                  |              |                  |                |                |                | <0.001         | <0.001         | <0.001         | <0.001         | <0.001          | <0.0010        | <0.001          | <0.001          |
| Total Selenium                    | mg/L        | 0.05     | MAC |                  | 0.013            | <.0002          | <.0002           | <.0002       | <.0002           | 0.0002         | <.0002         | <.003          | <.0006         | <.0006         | <.0006         | <.0006         | <.0006          | <.0005         | <.0001          | <.0001          |
| Total Silicon                     | mg/L        |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                | 14.3           | 14.4            | 17.1           | 12.3            | 12.9            |
| Total Silver                      | mg/L        |          |     |                  |                  |                 |                  |              |                  |                |                |                | <0.00001       | <0.00001       | <0.00001       | <0.00001       | <0.00001        | <0.00025       | <0.00002        | <0.00002        |
| Total Strontium                   | mg/L        |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                | 0.107          | 0.125           | 0.131          | 0.103           | 0.113           |
| Total Thallium                    | mg/L        |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                | <0.00001       | <0.00001        | <0.00005       | <0.00005        | <0.00005        |
| Total Tin                         | mg/L        |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                | <0.0001        | <0.0001         | 0.0006         | <0.005          | <0.005          |
| Total Titanium                    | mg/L        |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                | 0.002          | 0.0029          | <0.0025        | <0.005          | <0.005          |
| Total Uranium                     | mg/L        | 0.02     | MAC |                  | <.06             | <.02            | <.0005           | <.0005       | <.0005           | <.0005         | <.0005         | <.002          | <.0004         | <.0004         | <.0004         | <.0004         | <.0004          | <.00005        | <.0001          | <.0001          |
| Total Vanadium                    | mg/L        |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                | 0.0006         | 0.0006          | 0.001          | <0.005          | <0.005          |
| Total Zinc                        | mg/L        | 5        | AO  | 0.009            | 0.0037           | 0.0046          | 0.007            | 0.007        | 0.006            | 0.006          | 0.01           | 0.007          | 0.006          | 0.003          | 0.004          | 0.001          | 0.006           | 0.0326         | <0.005          | 0.029           |
| Total Zirconium                   | mg/L        |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                | <0.0005         | <0.0005         |
| Total Calcium                     | mg/L        |          |     |                  | 27.3             | 27.4            | 26.9             | 28.1         | 28.1             | 26.9           | 29.5           | 25             | 31.2           | 29.2           | 27.4           | 29.6           | 28.5            | 31.6           | 23.7            | 25.4            |
| Total Magnesium                   | mg/L        |          |     | 9.24             | 10.1             | 9.61            | 10.5             | 10.4         | 10.6             | 9.5            | 10.8           | 9.5            | 10.9           | 10.5           | 10.3           | 10.6           | 10.6            | 11.6           | 8               | 9.98            |
| Total Potassium                   | mg/L        |          |     |                  | 2.4              | 2.6             | 2.5              | 2.6          | 2                | 2.6            | 2.5            | 2.4            | 2.7            | 2.6            | 2.5            | 2.5            | 2.76            | 3.1            | 1.94            | 2.34            |
| Total Sodium                      | mg/L        | 200      | AO  |                  | 29.8             | 31              | 28.6             | 36           | 36               | 34.8           | 31.6           | 35             | 40.7           | 31.6           | 29.6           | 31             | 46.2            | 54             | 27.2            | 32.4            |
| Total Sulphur                     | mg/L        |          |     |                  |                  |                 |                  |              |                  |                |                |                |                |                |                |                |                 |                | <3.0            | 3.2             |

## Nanoose Bay Peninsula Distribution Water Analysis

### 3383 Redden Road (~Sample Collected at 3429 Redden Road)

CDWG=Canadian Drinking Water Guidelines  
OG= Operational Guidance Value

MAC=Maximum Acceptable Concentration  
AO= Asthetic Objective.

Orange font indicates non-compliance with the Aesthetic Objective in the Canadian Drinking Water Guidelines (CDWG)  
Red font indicates non-compliance with the Maximum Acceptable Concentration (MAC) in the CDWG

|                                   | Units       | CDWG     |     | May 18<br>2010~ | May 25<br>2011 | May 15<br>2012 | June 5<br>2013° | May 14<br>2014 | May 20<br>2015° | May 11<br>2016° |
|-----------------------------------|-------------|----------|-----|-----------------|----------------|----------------|-----------------|----------------|-----------------|-----------------|
| <b>Miscellaneous Inorganics</b>   |             |          |     |                 |                |                |                 |                |                 |                 |
| Fluoride                          | mg/L        | 1.5      | MAC | <1.0            | <1.0           | 0.16           | 0.13            | 0.15           | 0.14            | 0.12            |
| Alkalinity (total as CaCO )       | mg/L        |          |     | 140             | 140            | 140            | 140             | 140            | 116             | 121             |
| <b>Anions</b>                     |             |          |     |                 |                |                |                 |                |                 |                 |
| Dissolved Sulphate                | mg/L        | 500      | AO  | 4.5             | 3.9            | 4              | 5.4             | 6.4            | 6.35            | 7.35            |
| Dissolved Chloride                | mg/L        | 250      | AO  | 20.7            | 21.8           | 23.2           | 42.5            | 46.8           | 29              | 27              |
| Nitrite                           | mg/L        | 1        | MAC | <0.1            | <0.1           | <0.05          | <0.05           | <0.05          | <0.0050         | <0.0050         |
| <b>Miscellaneous</b>              |             |          |     |                 |                |                |                 |                |                 |                 |
| Apparent Colour                   | Colour Unit |          |     | 7               | 21             | 81             | 8               | 5              | 5               | 15              |
| <b>Nutrients</b>                  |             |          |     |                 |                |                |                 |                |                 |                 |
| Total Ammonia                     | mg/L        |          |     |                 | <0.01          | 0.13           | 0.02            | <0.02          | 0.024           | 0.012           |
| <b>Physical Properties</b>        |             |          |     |                 |                |                |                 |                |                 |                 |
| Conductivity                      | µS/cm       |          |     | 360             | 349            | 353            | 399             | 428            | 341             | 337             |
| pH                                | pH          | 7.0:10.5 | AO  | 7.7             | 7.9            | 7.9            | 7.7             | 7.6            | 8.12            | 8.12            |
| TDS                               | mg/L        | 500      | AO  | 224             | 210            | 212            | 252             | 284            | 176             | 204             |
| Turbidity                         | NTU         |          |     | <0.5            | 0.6            | 2.2            | <0.5            | <0.5           | 0.21            | 0.18            |
| <b>Microbiological Parameters</b> |             |          |     |                 |                |                |                 |                |                 |                 |
| E.coli                            | MPN/100mL   | <1       | MAC | <1.0            | <1.0           | <1.0           | <1.0            | <1.0           | <1.0            | <1.0            |
| Total Coliforms                   | MPN/100mL   | <1       | MAC | <1.0            | <1.0           | <1.0           | <1.0            | <1.0           | <1.0            | <1.0            |
| <b>Calculated Parameters</b>      |             |          |     |                 |                |                |                 |                |                 |                 |
| Total Hardness (CaCO )            | mg/L        |          |     | 120             | 110            | 120            | 120             | 120            | 94.7            | 99.4            |
| Nitrate                           | mg/L        | 10       | MAC | <0.1            | <0.1           | <0.05          | <0.05           | <0.05          | 0.024           | 0.045           |
| <b>Elements</b>                   |             |          |     |                 |                |                |                 |                |                 |                 |
| Total Mercury                     | mg/L        | 0.001    | MAC | <0.01           | <0.00001       | <0.00001       | <0.00001        | <0.00001       | <0.00001        | <0.00001        |
| <b>Total Metals</b>               |             |          |     |                 |                |                |                 |                |                 |                 |
| Total Aluminum                    | mg/L        | 0.1      | OG  | 0.008           | <0.005         | <0.005         | <0.005          | <0.025         | <0.003          | 0.0093          |
| Total Antimony                    | mg/L        | 0.006    | MAC | <0.0002         | <0.0002        | <0.0002        | <0.0002         | <0.0005        | <0.0005         | <0.0005         |
| Total Arsenic                     | mg/L        | 0.01     | MAC | 0.0008          | 0.0009         | 0.0013         | 0.0013          | 0.00138        | 0.00112         | 0.00108         |
| Total Barium                      | mg/L        | 1        | MAC | 0.005           | 0.005          | 0.009          | 0.006           | 0.00472        | 0.0051          | 0.0051          |
| Total Beryllium                   | mg/L        |          |     |                 |                | <0.00004       | <0.00004        | <0.00025       | <0.0001         | <0.0001         |
| Total Bismuth                     | mg/L        |          |     |                 |                | <0.001         | <0.0010         | <0.0005        | <0.001          | <0.001          |
| Total Boron                       | mg/L        | 5        | MAC | 0.063           | 0.07           | 0.069          | 0.077           | 0.084          | 0.052           | 0.053           |
| Total Cadmium                     | mg/L        | 0.005    | MAC | <0.00001        | <0.00001       | <0.00001       | <0.00001        | <0.00005       | <0.00001        | <0.00001        |
| Total Chromium                    | mg/L        | 0.05     | MAC | <0.0004         | <0.0004        | 0.0005         | <0.0004         | <0.0025        | <0.001          | <0.001          |
| Total Cobalt                      | mg/L        |          |     |                 |                | 0.00004        | 0.00012         | <0.0005        | <0.0005         | <0.0005         |
| Total Copper                      | mg/L        | 1        | AO  | 0.003           | 0.002          | 0.002          | <0.001          | 0.004          | 0.00345         | 0.00117         |
| Total Iron                        | mg/L        | 0.3      | AO  | 0.093           | 0.24           | 1.23           | 0.07            | 0.073          | 0.0816          | 0.0782          |
| Total Lead                        | mg/L        | 0.01     | MAC | 0.0001          | 0.0002         | 0.0002         | <0.0001         | <0.0005        | 0.00021         | <0.0002         |
| Total Manganese                   | mg/L        | 0.05     | AO  | 0.044           | 0.071          | 0.354          | 0.0208          | 0.016          | 0.0192          | 0.0205          |
| Total Molybdenum                  | mg/L        |          |     |                 |                | <0.0001        | 0.0002          | 0.00037        | <0.001          | <0.001          |
| Total Nickel                      | mg/L        |          |     | <0.001          | <0.001         | <0.001         | <0.001          | <0.0010        | <0.001          | <0.001          |
| Total Selenium                    | mg/L        | 0.05     | MAC | <0.0006         | <0.0006        | <0.0006        | <0.0006         | <0.0005        | <0.0001         | <0.0001         |
| Total Silicon                     | mg/L        |          |     |                 |                | 14.6           | 14.6            | 16.5           | 12.8            | 13.3            |
| Total Silver                      | mg/L        |          |     | <0.00001        | <0.00001       | <0.00001       | <0.00001        | <0.00025       | <0.00002        | <0.00002        |
| Total Strontium                   | mg/L        |          |     |                 |                | 0.108          | 0.124           | 0.127          | 0.101           | 0.105           |
| Total Thallium                    | mg/L        |          |     |                 |                | <0.00001       | <0.00001        | <0.00005       | <0.00005        | <0.00005        |
| Total Tin                         | mg/L        |          |     |                 |                | <0.0001        | 0.0003          | <0.0005        | <0.005          | <0.005          |
| Total Titanium                    | mg/L        |          |     |                 |                | 0.004          | 0.0031          | <0.0025        | <0.005          | <0.005          |
| Total Uranium                     | mg/L        | 0.02     | MAC | <0.0004         | <0.0004        | <0.0004        | <0.0004         | <0.00005       | <0.0001         | <0.0001         |
| Total Vanadium                    | mg/L        |          |     |                 |                | 0.0007         | 0.0006          | 0.001          | <0.005          | <0.005          |
| Total Zinc                        | mg/L        | 5        | AO  | 0.004           | 0.003          | 0.003          | <0.001          | 0.0482         | <0.005          | <0.005          |
| Total Zirconium                   | mg/L        |          |     |                 |                |                |                 |                | <0.0005         | <0.0005         |
| Total Calcium                     | mg/L        |          |     | 28.9            | 26.5           | 29.6           | 28.7            | 30.5           | 25              | 24.9            |
| Total Magnesium                   | mg/L        |          |     | 10.4            | 10             | 10.6           | 10.6            | 11.2           | 7.86            | 9.08            |
| Total Potassium                   | mg/L        |          |     | 2.5             | 2.5            | 2.6            | 2.76            | 3.1            | 1.93            | 2.13            |
| Total Sodium                      | mg/L        | 200      | AO  | 31.8            | 29.5           | 31             | 46.8            | 52.8           | 28.2            | 29.6            |
| Total Sulphur                     | mg/L        |          |     |                 |                |                |                 |                | <3.0            | <3.0            |

CDWG=Canadian Drinking Water Guidelines  
OG= Operational Guidance Value

MAC=Maximum Acceptable Concentration  
AO= Aesthetic Objective.

**Orange font indicates non-compliance with the Aesthetic Objective in the Canadian Drinking Water Guidelines (CDWG)**  
**Red font indicates non-compliance with the Maximum Acceptable Concentration (MAC) in the CDWG**

|                                   | Units       | CDWG     |     | June 28<br>2001 | 2004    | April 20<br>2005 | May 17<br>2006 | May 22<br>2007 | May 27<br>2008 | May 13<br>2009 | May 18<br>2010 | May 25<br>2011 | May 23<br>2012 | June 5<br>2013° | May 14<br>2014 | May 20<br>2015° | May 11<br>2016° |
|-----------------------------------|-------------|----------|-----|-----------------|---------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|-----------------|-----------------|
| <b>Miscellaneous Inorganics</b>   |             |          |     |                 |         |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Fluoride                          | mg/L        | 1.5      | MAC | 0.17            | <1.0    | <1.0             | 0.2            | <1.0           | <1.0           | <1.0           | <1.0           | <1.0           | 0.16           | 0.13            | 0.15           | 0.18            | 0.12            |
| Alkalinity (total as CaCO )       | mg/L        |          |     | 137             | 140     | 150              | 150            | 51             | 140            | 140            | 140            | 140            | 140            | 140             | 140            | 141             | 121             |
| <b>Anions</b>                     |             |          |     |                 |         |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Dissolved Sulphate                | mg/L        | 500      | AO  | 1.27            | 9.4     | <2               | 2.6            | 2.8            | 3.3            | 4              | 4.3            | 4.1            | 3.8            | 5.7             | 6.4            | 7.26            | 7.19            |
| Dissolved Chloride                | mg/L        | 250      | AO  | 20.5            | 23.4    | 2.8              | 27.9           | 19.4           | 22.9           | 22.9           | 20.1           | 17.1           | 15.5           | 46.5            | 48.9           | 36              | 27              |
| Nitrite                           | mg/L        | 1        | MAC | <0.002          | <0.1    | <0.1             | <0.01          | <0.1           | <0.1           | <1.0           | <0.1           | <0.1           | <0.05          | <0.05           | <0.05          | <0.0050         | <0.0050         |
| <b>Miscellaneous</b>              |             |          |     |                 |         |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Apparent Colour                   | Colour Unit |          |     | 23              | 13      | 7                | 37             | 13             | 15             | 25             | 9              | 19             | 13             | 8               | 6              | <5.0            | 10              |
| <b>Nutrients</b>                  |             |          |     |                 |         |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Total Ammonia                     | mg/L        |          |     |                 |         |                  |                |                |                |                |                | 0.42           | 0.78           | 0.02            | <0.02          | 0.022           | 0.012           |
| <b>Physical Properties</b>        |             |          |     |                 |         |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Conductivity                      | µS/cm       |          |     | 351             | 381     | 377              | 379            | 348            | 365            | 354            | 352            | 332            | 329            | 414             | 431            | 412             | 331             |
| pH                                | pH          | 7.0:10.5 | AO  | 7.53            | 7.7     | 7.6              | 7.7            | 7.6            | 7.8            | 7.7            | 7.8            | 7.9            | 7.8            | 7.6             | 7.6            | 8.15            | 8.13            |
| TDS                               | mg/L        | 500      | AO  | 187             | 220     | 210              | 220            | 202            | 238            | 242            | 222            | 206            | 216            | 262             | 284            | 224             | 188             |
| Turbidity                         | NTU         |          |     | 0.37            | 0.8     | <0.5             | 0.9            | <0.5           | <0.5           | 0.7            | <0.5           | 1              | 0.5            | <0.5            | <0.5           | 0.15            | 0.17            |
| <b>Microbiological Parameters</b> |             |          |     |                 |         |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| E.coli                            | MPN/100mL   | <1       | MAC |                 |         |                  | <1             | <1             | <1             | <1.0           | <1.0           | <1.0           | <1.0           | <1.0            | <1.0           | <1.0            | <1.0            |
| Total Coliforms                   | MPN/100mL   | <1       | MAC | <1              | <1      | <1               | <1             | <1             | <1             | <1.0           | <1.0           | <1.0           | <1.0           | <1.0            | <1.0           | <1.0            | <1.0            |
| <b>Calculated Parameters</b>      |             |          |     |                 |         |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Total Hardness (CaCO )            | mg/L        |          |     | 108.3           | 110     | 120              | 110            | 120            | 110            | 120            | 120            | 110            | 120            | 110             | 130            | 102             | 98.9            |
| Nitrate                           | mg/L        | 10       | MAC | 0.041           | <0.1    | <0.1             | 0.06           | <0.1           | <0.1           | <1.0           | <0.1           | <0.1           | <0.05          | <0.05           | <0.05          | <0.020          | 0.055           |
| <b>Elements</b>                   |             |          |     |                 |         |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Total Mercury                     | mg/L        | 0.001    | MAC | <0.0001         | <0.0002 | <0.0002          | <0.0001        | <0.0001        | <0.01          | <0.01          | <0.01          | <0.00001       | <0.00001       | <0.00001        | <0.00001       | <0.00001        | <0.00001        |
| <b>Total Metals</b>               |             |          |     |                 |         |                  |                |                |                |                |                |                |                |                 |                |                 |                 |
| Total Aluminum                    | mg/L        | 0.1      | OG  | 0.015           | <0.005  | <0.005           | <0.005         | <0.005         | <0.05          | 0.005          | 0.011          | <0.005         | <0.005         | <0.005          | <0.025         | <0.003          | <0.003          |
| Total Antimony                    | mg/L        | 0.006    | MAC | 0.007           | <0.0002 | <0.0002          | <0.0002        | <0.0002        | <0.001         | <0.0002        | <0.0002        | <0.0002        | <0.0002        | <0.0002         | <0.0005        | <0.0005         | <0.0005         |
| Total Arsenic                     | mg/L        | 0.01     | MAC | <0.01           | 0.0019  | 0.0021           | 0.0014         | 0.001          | <0.001         | 0.002          | 0.0014         | 0.0014         | 0.0013         | 0.0018          | 0.00214        | 0.00128         | 0.0013          |
| Total Barium                      | mg/L        | 1        | MAC | 0.0087          | 0.006   | 0.006            | 0.009          | 0.008          | 0.005          | 0.007          | 0.006          | 0.006          | 0.002          | 0.005           | 0.00537        | 0.0052          | 0.0048          |
| Total Beryllium                   | mg/L        |          |     |                 |         |                  |                |                |                |                |                |                | <0.00004       | <0.00004        | <0.00025       | <0.0001         | <0.0001         |
| Total Bismuth                     | mg/L        |          |     |                 |         |                  |                |                |                |                |                |                | <0.001         | <0.0010         | <0.0005        | <0.001          | <0.001          |
| Total Boron                       | mg/L        | 5        | MAC | 0.073           | 0.084   | 0.07             | 0.072          | 0.079          | 0.06           | 0.072          | 0.072          | 0.073          | 0.068          | 0.077           | 0.081          | 0.066           | 0.051           |
| Total Cadmium                     | mg/L        | 0.005    | MAC | <0.0006         | <0.0001 | <0.00001         | <0.00001       | <0.00001       | <0.0003        | <0.00001       | <0.00001       | <0.00001       | <0.00001       | <0.00001        | <0.00005       | <0.00001        | <0.00001        |
| Total Chromium                    | mg/L        | 0.05     | MAC | <0.0009         | <0.0005 | <0.0005          | <0.0005        | <0.0005        | <0.003         | <0.0004        | 0.0004         | <0.0004        | 0.0009         | <0.0004         | <0.0025        | <0.001          | <0.001          |
| Total Cobalt                      | mg/L        |          |     |                 |         |                  |                |                |                |                |                |                | 0.00005        | <0.00002        | <0.0005        | <0.0005         | <0.0005         |
| Total Copper                      | mg/L        | 1        | AO  | 0.003           | 0.002   | <0.001           | 0.002          | 0.002          | <0.005         | 0.001          | 0.002          | 0.004          | <0.001         | 0.002           | 0.0047         | 0.00265         | 0.0022          |
| Total Iron                        | mg/L        | 0.3      | AO  | 0.878           | 0.4     | 0.2              | 0.5            | 0.6            | 0.35           | 0.36           | 0.233          | 0.221          | 0.169          | 0.081           | 0.082          | 0.0706          | 0.0788          |
| Total Lead                        | mg/L        | 0.01     | MAC | 0.003           | 0.0003  | 0.0003           | 0.0001         | 0.0001         | <0.0005        | 0.0001         | 0.0004         | 0.0002         | <0.0001        | 0.0001          | <0.0005        | <0.0002         | <0.0002         |
| Total Manganese                   | mg/L        | 0.05     | AO  | 0.282           | 0.184   | 0.18             | 0.209          | 0.257          | 0.201          | 0.245          | 0.11           | 0.118          | 0.157          | 0.0212          | 0.021          | 0.0154          | 0.0252          |
| Total Molybdenum                  | mg/L        |          |     |                 |         |                  |                |                |                |                |                |                | 0.0003         | 0.0002          | <0.00025       | <0.001          | <0.001          |
| Total Nickel                      | mg/L        |          |     |                 |         |                  |                |                |                | <0.001         | <0.001         | <0.001         | <0.001         | <0.001          | <0.0010        | <0.001          | <0.001          |
| Total Selenium                    | mg/L        | 0.05     | MAC | 0.009           | <0.0002 | <0.0002          | <0.0002        | <0.0002        | <0.003         | <0.00001       |                | <0.0006        | <0.0006        | <0.0006         | <0.0005        | <0.0001         | <0.0001         |
| Total Silicon                     | mg/L        |          |     |                 |         |                  |                |                |                |                |                |                | 14             | 14.7            | 17.2           | 14.6            | 13              |
| Total Silver                      | mg/L        |          |     |                 |         |                  |                |                |                | 0.00001        | <0.00001       | <0.00001       | <0.00001       | <0.00001        | <0.00025       | <0.00002        | <0.00002        |
| Total Strontium                   | mg/L        |          |     |                 |         |                  |                |                |                |                |                |                | 0.113          | 0.124           | 0.131          | 0.112           | 0.103           |
| Total Thallium                    | mg/L        |          |     |                 |         |                  |                |                |                |                |                |                | <0.00001       | <0.00001        | <0.00005       | <0.00005        | <0.00005        |
| Total Tin                         | mg/L        |          |     |                 |         |                  |                |                |                |                |                |                | <0.0001        | <0.0001         | <0.0005        | <0.005          | <0.005          |
| Total Titanium                    | mg/L        |          |     |                 |         |                  |                |                |                |                |                |                | <0.001         | <0.0010         | <0.0025        | <0.005          | <0.005          |
| Total Uranium                     | mg/L        | 0.02     | MAC | <0.06           | <0.0005 | <0.0005          | <0.0005        | <0.0005        | <0.002         | <0.0004        | <0.0004        | <0.0004        | <0.0004        | <0.0004         | <0.00005       | <0.0001         | <0.0001         |
| Total Vanadium                    | mg/L        |          |     |                 |         |                  |                |                |                |                |                |                | 0.0005         | 0.0006          | 0.0009         | <0.005          | <0.005          |
| Total Zinc                        | mg/L        | 5        | AO  | 0.0047          | 0.008   | 0.006            | 0.006          | 0.01           | <0.005         | 0.007          | 0.003          | 0.005          | <0.001         | 0.002           | 0.0236         | <0.005          | <0.005          |
| Total Zirconium                   | mg/L        |          |     |                 |         |                  |                |                |                |                |                |                |                |                 |                | <0.0005         | <0.0005         |
| Total Calcium                     | mg/L        |          |     | 27              | 27.4    | 28.5             | 27.8           | 29.8           | 26             | 31.2           | 28.9           | 27             | 29.1           | 28.5            | 31.9           | 26.3            | 25.3            |
| Total Magnesium                   | mg/L        |          |     | 9.93            | 10.2    | 10.8             | 9.7            | 11             | 9.7            | 11             | 10.5           | 10.2           | 10.6           | 10.6            | 11.5           | 8.86            | 8.64            |
| Total Potassium                   | mg/L        |          |     | 2.3             | 2.6     | 3                | 2.7            | 2.6            | 2.4            | <0.0006        | 2.4            | 2.5            | 2.4            | 2.84            | 3.2            | 2.39            | 2.07            |
| Total Sodium                      | mg/L        | 200      | AO  | 29.3            | 35      | 35               | 34.4           | 31.7           | 32.4           | 31.2           | 29.6           | 27.3           | 26.4           | 47.4            | 56.9           | 35.4            | 28.7            |
| Total Sulphur                     | mg/L        |          |     |                 |         |                  |                |                |                |                |                |                |                |                 |                | <3.0            | <3.0            |

Nanoose Bay Peninsula Distribution Water Analysis  
Water Treatment Plant: 2480 Nanoose Road  
Treated Water

CDWG=Canadian Drinking Water Guidelines  
OG= Operational Guidance Value

MAC=Maximum Acceptable Concentration  
AO= Asthetic Objective.

Orange font indicates non-compliance with the Aesthetic Objective in the Canadian Drinking Water Guidelines (CDWG)  
Red font indicates non-compliance with the Maximum Acceptable Concentration (MAC) in the CDWG

|  | Units       | CDWG     |     | October 31<br>2012 | June 5<br>2013 | May 14<br>2014 | May 25<br>2015 | May 11<br>2016 |
|--|-------------|----------|-----|--------------------|----------------|----------------|----------------|----------------|
| <b>Miscellaneous Inorganics</b>          |             |          |     |                    |                |                |                |                |
| Fluoride                                 | mg/L        | 1.5      | MAC | 0.2                | 0.15           | 0.16           | 0.15           | 0.15           |
| Alkalinity (total as CaCO <sub>3</sub> ) | mg/L        |          |     | 180                | 140            | 140            | 136            | 156            |
| <b>Anions</b>                            |             |          |     |                    |                |                |                |                |
| Dissolved Sulphate                       | mg/L        | 500      | AO  | 5.8                | 5.6            | 6.4            | 7.29           | 8.2            |
| Dissolved Chloride                       | mg/L        | 250      | AO  | 27.7               | 45.4           | 45.8           | 39             | 30             |
| Nitrite                                  | mg/L        | 1        | MAC | <0.05              | <0.05          | <0.05          | <0.050         | <0.0050        |
| <b>Miscellaneous</b>                     |             |          |     |                    |                |                |                |                |
| Apparent Colour                          | Colour Unit |          |     | 5                  | 7              | 6              | <5             | 10             |
| <b>Nutrients</b>                         |             |          |     |                    |                |                |                |                |
| Total Ammonia                            | mg/L        |          |     | 0.2                | 0.1            | <0.02          | 0.062          | 0.023          |
| <b>Physical Properties</b>               |             |          |     |                    |                |                |                |                |
| Conductivity                             | µS/cm       |          |     | 407                | 409            | 424            | 413            | 403            |
| pH                                       | pH          | 7.0:10.5 | AO  | 9.1                | 7.6            | 7.6            | 8.02           | 8.11           |
| TDS                                      | mg/L        | 500      | AO  | 258                | 266            | 272            | 238            | 216            |
| Turbidity                                | NTU         |          |     | <0.5               | <0.5           | <0.5           | 0.26           | 0.23           |
| <b>Microbiological Parameters</b>        |             |          |     |                    |                |                |                |                |
| E.coli                                   | MPN/100mL   | <1       | MAC | <1.0               | <1.0           | <1.0           | <1.0           | <1.0           |
| Total Coliforms                          | MPN/100mL   | <1       | MAC | <1.0               | <1.0           | <1.0           | <1.0           | <1.0           |
| <b>Calculated Parameters</b>             |             |          |     |                    |                |                |                |                |
| Total Hardness (CaCO <sub>3</sub> )      | mg/L        |          |     | 150                | 120            | 120            | 120            | 111            |
| Nitrate                                  | mg/L        | 10       | MAC | <0.05              | <0.05          | <0.05          | <0.050         | <0.020         |
| <b>Elements</b>                          |             |          |     |                    |                |                |                |                |
| Total Mercury                            | mg/L        | 0.001    | MAC | <0.0001            | <0.00001       | <0.00001       | <0.00001       | <0.00001       |
| <b>Total Metals</b>                      |             |          |     |                    |                |                |                |                |
| Total Aluminum                           | mg/L        | 0.1      | OG  | 0.077              | <0.005         | <0.025         | <0.003         | <0.003         |
| Total Antimony                           | mg/L        | 0.006    | MAC | <0.0001            | <0.0002        | <0.0005        | <0.0005        | <0.0005        |
| Total Arsenic                            | mg/L        | 0.01     | MAC | 0.0012             | 0.0014         | 0.00136        | 0.00138        | 0.00112        |
| Total Barium                             | mg/L        | 1        | MAC | 0.00538            | 0.005          | 0.00534        | 0.0049         | 0.0049         |
| Total Beryllium                          | mg/L        |          |     | <0.00005           | <0.00004       | <0.00025       | <0.0001        | <0.0001        |
| Total Bismuth                            | mg/L        |          |     | 0.0001             | <0.0010        | <0.0005        | <0.001         | <0.001         |
| Total Boron                              | mg/L        | 5        | MAC | 0.073              | 0.083          | 0.084          | 0.066          | 0.062          |
| Total Cadmium                            | mg/L        | 0.005    | MAC | 0.00001            | <0.00001       | <0.00005       | <0.00001       | <0.00001       |
| Total Chromium                           | mg/L        | 0.05     | MAC | <0.0005            | <0.0004        | <0.0025        | <0.001         | <0.001         |
| Total Cobalt                             | mg/L        |          |     | <0.0001            | 0.00005        | <0.0005        | <0.0005        | <0.0005        |
| Total Copper                             | mg/L        | 1        | AO  | 0.0004             | 0.002          | 0.0083         | 0.00322        | 0.00258        |
| Total Iron                               | mg/L        | 0.3      | AO  | 0.032              | 0.09           | 0.103          | 0.16           | 0.107          |
| Total Lead                               | mg/L        | 0.01     | MAC | <0.0001            | <0.0001        | 0.0006         | 0.00197        | 0.00121        |
| Total Manganese                          | mg/L        | 0.05     | AO  | 0.0091             | 0.0258         | 0.025          | 0.0413         | 0.0292         |
| Total Molybdenum                         | mg/L        |          |     | 0.00031            | 0.0003         | 0.00038        | <0.001         | <0.001         |
| Total Nickel                             | mg/L        |          |     | 0.0006             | <0.001         | <0.0010        | <0.001         | <0.001         |
| Total Selenium                           | mg/L        | 0.05     | MAC | <0.0001            | <0.0006        | <0.0005        | <0.0001        | <0.0001        |
| Total Silicon                            | mg/L        |          |     | 15.6               | 14.9           | 16.8           | 16.1           | 16.6           |
| Total Silver                             | mg/L        |          |     | <0.00001           | <0.00001       | <0.00025       | <0.00002       | <0.00002       |
| Total Strontium                          | mg/L        |          |     | 0.121              | 0.132          | 0.13           | 0.121          | 0.124          |
| Total Thallium                           | mg/L        |          |     | <0.00001           | <0.00001       | <0.00005       | <0.00005       | <0.00005       |
| Total Tin                                | mg/L        |          |     | <0.0001            | <0.0001        | <0.0005        | <0.005         | <0.005         |
| Total Titanium                           | mg/L        |          |     | <0.0005            | 0.0029         | <0.0025        | <0.005         | <0.005         |
| Total Uranium                            | mg/L        | 0.02     | MAC | <0.00001           | <0.0004        | <0.00005       | <0.0001        | <0.0001        |
| Total Vanadium                           | mg/L        |          |     | 0.0012             | 0.0006         | 0.0008         | <0.005         | <0.005         |
| Total Zinc                               | mg/L        | 5        | AO  | <0.0005            | 0.005          | 0.0281         | 0.0055         | <0.005         |
| Total Zirconium                          | mg/L        |          |     |                    |                |                | <0.0005        | <0.0005        |
| Total Calcium                            | mg/L        |          |     | 29                 | 29.3           | 31.2           | 29.6           | 27.7           |
| Total Magnesium                          | mg/L        |          |     | 18.7               | 10.8           | 11.4           | 11.1           | 10.3           |
| Total Potassium                          | mg/L        |          |     | 2.6                | 3.03           | 3.1            | 2.7            | 2.65           |
| Total Sodium                             | mg/L        | 200      | AO  | 35.3               | 48.2           | 53.5           | 39.6           | 35.3           |
| Total Sulphur                            | mg/L        |          |     |                    |                |                | 3.1            | <3.0           |