



# Regional District of Nanaimo - Utilities Department

## Melrose Terrace Water Analysis - Monthly Report



| Date   | Sample Location<br>(Address) | Fecal Coli *<br>Health Dep | Total Coli *<br>Health Dep | Total Coli<br>RDN | E Coli<br>RDN | Temp<br>° C | pH  | Cl <sub>2</sub><br>ppm | TDS<br>ppm | Sal<br>% | Cond<br>uS/cm | Fe<br>ppm | Mn<br>ppm |
|--------|------------------------------|----------------------------|----------------------------|-------------------|---------------|-------------|-----|------------------------|------------|----------|---------------|-----------|-----------|
| Jan-07 |                              |                            |                            |                   |               |             |     |                        |            |          |               |           |           |
| 3-Jan  | 3927 Melrose                 | 0                          | 0                          | 0                 | 0             | 8           | 6.4 | 0.03                   | 174        | 0.2      | 370           | 0.11      | 0.008     |
| 9-Jan  | 3927 Melrose                 |                            |                            | 0                 | 0             | 6           | 6.6 | 0.01                   | 174        | 0.2      | 370           |           |           |
| 16-Jan | *3927 Melrose                |                            |                            |                   |               |             |     |                        |            |          |               |           |           |
| 23-Jan | 3927 Melrose                 |                            |                            |                   |               |             |     | 0.02                   |            |          |               |           |           |
|        | <b>Average</b>               | 0                          | 0                          | 0                 | 0             | 7.0         | 6.5 | 0.02                   | 174.0      | 0.2      | 370.0         | 0.11      | 0.008     |
|        | <b>Maximum</b>               | 0                          | 0                          | 0                 | 0             | 8           | 6.6 | 0.03                   | 174        | 0.2      | 370           | 0.11      | 0.008     |
|        | <b>Minimum</b>               | 0                          | 0                          | 0                 | 0             | 6           | 6.4 | 0.01                   | 174        | 0.2      | 370           | 0.11      | 0.008     |

Red font indicates non-compliance with Canadian Drinking Water Guidelines / BC Approved Water Quality Guidelines

Coliforms are measured in colony forming units (CFU) per 100 millilitres of water

\* Yellow Column Coliform tests are done by Health Department

Green tests are completed by RDN

**Comments:**

Not all bacteria test results are returned from Health Department therefore some data may be missing.

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

\* Note - Jan 16/07 Sample not available. Sample port frozen.



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|--------|---------------------------|----------------------------|----------------------------|-------------------|---------------|-------------|-----|------------------------|------------|----------|---------------|-----------|-----------|
| Feb-07 |                           |                            |                            |                   |               |             |     |                        |            |          |               |           |           |
| 6-Feb  | 3927 Melrose              | 0                          | 0                          | 0                 | 0             | 5           | 6.9 | 0.02                   | 177        | 0.2      | 379           | 0.19      | 0.029     |
| 13-Feb | Pumphouse                 |                            |                            | 0                 | 0             | 10          | 6.9 | 0.01                   | 181        | 0.2      | 385           |           |           |
| 20-Feb | 3927 Melrose              |                            |                            | 0                 | 0             | 7           | 6.7 | 0.02                   | 178        | 0.2      | 379           |           |           |
| 27-Feb | Pumphouse                 |                            |                            | 0                 | 0             | 11          | 6.8 | 0.04                   | 179        | 0.2      | 375           |           |           |
|        | <b>Average</b>            | 0                          | 0                          | 0                 | 0             | 8.3         | 6.8 | 0.02                   | 178.8      | 0.2      | 379.5         | 0.19      | 0.029     |
|        | <b>Maximum</b>            | 0                          | 0                          | 0                 | 0             | 11          | 6.9 | 0.04                   | 181        | 0.2      | 385           | 0.19      | 0.029     |
|        | <b>Minimum</b>            | 0                          | 0                          | 0                 | 0             | 5           | 6.7 | 0.01                   | 177        | 0.2      | 375           | 0.19      | 0.029     |

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|--------|---------------------------|----------------------------|----------------------------|-------------------|---------------|-------------|-----|------------------------|------------|----------|---------------|-----------|-----------|
| Mar-07 | 3927 Melrose              | 0                          | 0                          |                   |               |             | 6.5 |                        | 178        | 0.2      | 379           | 0.07      | 0.01      |
| 6-Mar  | Pumphouse                 |                            |                            | 0                 | 0             | 8           | 6.6 | 0.02                   | 176        | 0.2      | 372           |           |           |
| 13-Mar | Pumphouse                 |                            |                            | 0                 | 0             | 11          | 6.6 | 0.01                   | 177        | 0.2      | 372           |           |           |
| 20-Mar | 3927 Melrose              |                            |                            | 0                 | 0             | 9           | 6.7 | 0.03                   | 178        | 0.2      | 376           |           |           |
| 27-Mar |                           |                            |                            | 0                 | 0             | 9           | 6.7 | 0.03                   | 178        | 0.2      | 376           |           |           |
|        | <b>Average</b>            | 0                          | 0                          | 0                 | 0             | 9.3         | 6.6 | 0.02                   | 177.3      | 0.2      | 374.8         | 0.07      | 0.01      |
|        | <b>Maximum</b>            | 0                          | 0                          | 0                 | 0             | 11          | 6.7 | 0.03                   | 178        | 0.2      | 379           | 0.07      | 0.01      |
|        | <b>Minimum</b>            | 0                          | 0                          | 0                 | 0             | 8           | 6.5 | 0.01                   | 176        | 0.2      | 372           | 0.07      | 0.01      |

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| Date<br>Apr-07 | Sample Location<br>(Address) | Fecal Coli *<br>Health Dep | Total Coli *<br>Health Dep | Total Coli<br>RDN | E Coli<br>RDN | Temp<br>° C | pH  | Cl <sub>2</sub><br>ppm | TDS<br>ppm | Sal<br>% | Cond<br>uS/cm | Fe<br>ppm | Mn<br>ppm |
|----------------|------------------------------|----------------------------|----------------------------|-------------------|---------------|-------------|-----|------------------------|------------|----------|---------------|-----------|-----------|
| 3-Apr          | Pumphouse                    |                            |                            | 0                 | 0             | 11          | 6.6 | 0.03                   | 163        | 0.2      | 345           | 0.29      | 0.016     |
| 11-Apr         | 3927 Melrose                 | 0                          | 0                          | 0                 | 0             | 9           | 6.7 | 0.03                   | 157        | 0.2      | 332           |           |           |
| 17-Apr         | Pumphouse                    |                            |                            | 0                 | 0             | 10          | 6.8 | 0.03                   | 169        | 0.2      | 358           |           |           |
| 24-Apr         | 3927 Melrose                 |                            |                            | 0                 | 0             | 10          | 6.9 | 0.02                   | 173        | 0.2      | 368           |           |           |
|                | <b>Average</b>               | 0                          | 0                          | 0                 | 0             | 10.0        | 6.8 | 0.03                   | 165.5      | 0.2      | 350.8         | 0.29      | 0.016     |
|                | <b>Maximum</b>               | 0                          | 0                          | 0                 | 0             | 11          | 6.9 | 0.03                   | 173        | 0.2      | 368           | 0.29      | 0.016     |
|                | <b>Minimum</b>               | 0                          | 0                          | 0                 | 0             | 9           | 6.6 | 0.02                   | 157        | 0.2      | 332           | 0.29      | 0.016     |

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|--------|---------------------------|----------------------------|----------------------------|-------------------|---------------|-------------|-----|------------------------|------------|----------|---------------|-----------|-----------|
| 1-May  | 3927 Melrose              | 0                          | 0                          | 0                 | 0             | 11          | 6.9 | 0.02                   | 179        | 0.2      | 377           | 0.21      | 0.026     |
| 8-May  | Pumphouse                 |                            |                            | 0                 | 0             | 12          | 6.8 | 0.02                   | 173        | 0.2      | 364           |           |           |
| 15-May | Pumphouse                 |                            |                            | 0                 | 0             | 14          | 6.9 | 0.03                   | 170        | 0.2      | 356           |           |           |
| 23-May | 3927 Melrose              |                            |                            | 0                 | 0             |             | 6.9 | 0.02                   | 159        | 0.2      | 334           |           |           |
| 29-May | Pumphouse                 |                            |                            | 0                 | 0             | 12          | 7.1 | 0.02                   | 198        | 0.2      | 368           |           |           |
|        | <b>Average</b>            | 0                          | 0                          | 0                 | 0             | 12.3        | 6.9 | 0.02                   | 175.8      | 0.2      | 359.8         | 0.21      | 0.026     |
|        | <b>Maximum</b>            | 0                          | 0                          | 0                 | 0             | 14          | 7.1 | 0.03                   | 198        | 0.2      | 377           | 0.21      | 0.026     |
|        | <b>Minimum</b>            | 0                          | 0                          | 0                 | 0             | 11          | 6.8 | 0.02                   | 159        | 0.2      | 334           | 0.21      | 0.026     |

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| Date   | Sample Location (Address) | Fecal Coli *<br>Health Dep | Total Coli *<br>Health Dep | Total Coli<br>RDN | E Coli<br>RDN | Temp<br>° C | pH  | Cl <sub>2</sub><br>ppm | TDS<br>ppm | Sal<br>% | Cond<br>uS/cm | Fe<br>ppm | Mn<br>ppm |
|--------|---------------------------|----------------------------|----------------------------|-------------------|---------------|-------------|-----|------------------------|------------|----------|---------------|-----------|-----------|
| 5-Jun  | 3927 Melrose Ter          | 0                          | 0                          | 0                 | 0             | 15          | 6.3 | 0.03                   | 167        | 0.2      | 350           | 0.33      | 0.076     |
| 12-Jun | Pumphouse                 |                            |                            | 0                 | 0             | 13          | 6.8 | 0.02                   | 167        | 0.2      | 351           |           |           |
| 19-Jun | 3927 Melrose Ter          |                            |                            | 0                 | 0             | 15          | 6.8 | 0.02                   | 171        | 0.2      | 358           |           |           |
| 26-Jun | Pumphouse                 |                            |                            | 0                 | 0             |             | 6.7 | 0.01                   | 173        | 0.2      | 361           |           |           |
|        | <b>Average</b>            | 0                          | 0                          | 0                 | 0             | 14.3        | 6.7 | 0.02                   | 169.5      | 0.2      | 355.0         | 0.33      | 0.076     |
|        | <b>Maximum</b>            | 0                          | 0                          | 0                 | 0             | 15          | 6.8 | 0.03                   | 173        | 0.2      | 361           | 0.33      | 0.076     |
|        | <b>Minimum</b>            | 0                          | 0                          | 0                 | 0             | 13          | 6.3 | 0.01                   | 167        | 0.2      | 350           | 0.33      | 0.076     |

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| Date<br>Jul-07 | Sample Location<br>(Address) | Fecal Coli *<br>Health Dep | Total Coli *<br>Health Dep | Total Coli<br>RDN | E Coli<br>RDN | Temp<br>° C | pH  | Cl <sub>2</sub><br>ppm | TDS<br>ppm | Sal<br>% | Cond<br>uS/cm | Fe<br>ppm | Mn<br>ppm |
|----------------|------------------------------|----------------------------|----------------------------|-------------------|---------------|-------------|-----|------------------------|------------|----------|---------------|-----------|-----------|
| 4-Jul          | 3927 Melrose Ter             | 0                          | 0                          | 0                 | 0             | 16          | 6.6 | 0.02                   | 159        | 0.2      | 334           | 0.43      | 0.074     |
| 10-Jul         | Pumphouse                    |                            |                            | 0                 | 0             | 18          | 6.9 | 0.04                   | 166        | 0.2      | 349           |           |           |
| 17-Jul         | 3927 Melrose Ter             |                            |                            | 0                 | 0             | 19          | 6.6 | 0.03                   | 170        | 0.2      | 357           |           |           |
| 25-Jul         | 3847 Melrose                 |                            |                            | 0                 | 0             | 19          | 6.7 | 0.01                   | 169        | 0.2      | 355           |           |           |
|                | <b>Average</b>               | 0                          | 0                          | 0                 | 0             | 18.0        | 6.7 | 0.03                   | 166.0      | 0.2      | 348.8         | 0.43      | 0.074     |
|                | <b>Maximum</b>               | 0                          | 0                          | 0                 | 0             | 19          | 6.9 | 0.04                   | 170        | 0.2      | 357           | 0.43      | 0.074     |
|                | <b>Minimum</b>               | 0                          | 0                          | 0                 | 0             | 16          | 6.6 | 0.01                   | 159        | 0.2      | 334           | 0.43      | 0.074     |

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| Date<br>Aug-07 | Sample Location<br>(Address) | Fecal Coli *<br>Health Dep | Total Coli *<br>Health Dep | Total Coli<br>RDN | E Coli<br>RDN | Temp<br>° C | pH  | Cl <sub>2</sub><br>ppm | TDS<br>ppm | Sal<br>% | Cond<br>uS/cm | Fe<br>ppm | Mn<br>ppm |
|----------------|------------------------------|----------------------------|----------------------------|-------------------|---------------|-------------|-----|------------------------|------------|----------|---------------|-----------|-----------|
| 8-Aug          | 3927 Melrose Ter             | 0                          | 0                          | 0                 | 0             | 18          | 6.7 | 0.04                   | 171        | 0.2      | 358           | 0.35      | 0.071     |
| 14-Aug         | Pumphouse                    |                            |                            | 0                 | 0             | 18          | 6.7 | 0.01                   | 162        | 0.2      | 340           |           |           |
| 21-Aug         | 3927 Melrose Ter             |                            |                            | 0                 | 0             |             | 6.6 | 0.02                   | 173        | 0.2      | 362           |           |           |
| 28-Aug         | 3847 Melrose                 |                            |                            | 0                 | 0             | 20          | 6.8 | 0.02                   | 180        | 0.2      | 377           |           |           |
|                | <b>Average</b>               | 0                          | 0                          | 0                 | 0             | 18.7        | 6.7 | 0.02                   | 171.5      | 0.2      | 359.3         | 0.35      | 0.071     |
|                | <b>Maximum</b>               | 0                          | 0                          | 0                 | 0             | 20          | 6.8 | 0.04                   | 180        | 0.2      | 377           | 0.35      | 0.071     |
|                | <b>Minimum</b>               | 0                          | 0                          | 0                 | 0             | 18          | 6.6 | 0.01                   | 162        | 0.2      | 340           | 0.35      | 0.071     |

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|--------|---------------------------|----------------------------|----------------------------|-------------------|---------------|-------------|-----|------------------------|------------|----------|---------------|-----------|-----------|
| 5-Sep  | 3927 Melrose              | 0                          | 0                          | 0                 | 0             | 18          | 6.8 | 0.01                   | 181        | 0.2      | 379           | 0.21      | 0.112     |
| 11-Sep | 3847 Melrose              |                            |                            | 0                 | 0             | 19          | 6.8 | 0.02                   | 180        | 0.2      | 378           |           |           |
| 18-Sep | Pumphouse                 |                            |                            |                   |               | 17          | 6.8 | 0.02                   | 196        | 0.2      | 414           |           |           |
| 25-Sep | 3927 Melrose              |                            |                            | 0                 | 0             | 17          | 6.9 | 0.02                   | 197        | 0.2      | 412           |           |           |
|        | <b>Average</b>            | 0                          | 0                          | 0                 | 0             | 17.8        | 6.8 | 0.02                   | 188.5      | 0.2      | 395.8         | 0.21      | 0.112     |
|        | <b>Maximum</b>            | 0                          | 0                          | 0                 | 0             | 19          | 6.9 | 0.02                   | 197        | 0.2      | 414           | 0.21      | 0.112     |
|        | <b>Minimum</b>            | 0                          | 0                          | 0                 | 0             | 17          | 6.8 | 0.01                   | 180        | 0.2      | 378           | 0.21      | 0.112     |

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|----------------|------------------------------|----------------------------|----------------------------|-------------------|---------------|-------------|-----|------------------------|------------|----------|---------------|-----------|-----------|
| 2-Oct          | 3927 Melrose Ter             | 0                          | 0                          | 0                 | 0             | 15          | 6.8 | 0.01                   | 196.2      | 0.2      | 410           | 0.24      | 0.027     |
| 10-Oct         | 3847 Melrose Ter             |                            |                            | 0                 | 0             | 14          | 6.9 | 0.02                   | 195        | 0.2      | 410           |           |           |
| 16-Oct         | Pumphouse                    |                            |                            | 0                 | 0             | 15          | 6.9 | 0.02                   | 196        | 0.2      | 412           |           |           |
| 30-Oct         | 3927 Melrose Ter             |                            |                            | 0                 | 0             | 13          | 6.7 | 0.02                   | 198        | 0.2      | 415           |           |           |
|                | <b>Average</b>               | 0                          | 0                          | 0                 | 0             | 14.3        | 6.8 | 0.02                   | 196.3      | 0.2      | 411.8         | 0.24      | 0.027     |
|                | <b>Maximum</b>               | 0                          | 0                          | 0                 | 0             | 15          | 6.9 | 0.02                   | 198        | 0.2      | 415           | 0.24      | 0.027     |
|                | <b>Minimum</b>               | 0                          | 0                          | 0                 | 0             | 13          | 6.7 | 0.01                   | 195        | 0.2      | 410           | 0.24      | 0.027     |

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|--------|------------------------------|----------------------------|----------------------------|-------------------|---------------|-------------|-----|------------------------|------------|----------|---------------|-----------|-----------|
| 6-Nov  | 3927 Melrose Ter             | 0                          | 0                          | 0                 | 0             | 12          | 6.8 | 0.01                   | 199        | 0.2      | 418           | 0.19      | 0.024     |
| 14-Nov | Pumphouse                    |                            |                            | 0                 | 0             | 13          | 6.8 | 0.03                   | 199        | 0.2      | 419           |           |           |
| 20-Nov | 3847 Melrose Ter             |                            |                            | 0                 | 0             | 8           | 6.7 | 0.01                   | 195        | 0.2      | 415           |           |           |
| 27-Nov | 3927 Melrose Ter             |                            |                            | 0                 | 0             | 9           | 6.8 | 0.01                   | 188        | 0.2      | 403           |           |           |
|        | <b>Average</b>               | 0                          | 0                          | 0                 | 0             | 10.5        | 6.8 | 0.02                   | 195.3      | 0.2      | 413.8         | 0.19      | 0.024     |
|        | <b>Maximum</b>               | 0                          | 0                          | 0                 | 0             | 13          | 6.8 | 0.03                   | 199        | 0.2      | 419           | 0.19      | 0.024     |
|        | <b>Minimum</b>               | 0                          | 0                          | 0                 | 0             | 8           | 6.7 | 0.01                   | 188        | 0.2      | 403           | 0.19      | 0.024     |

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|--------|---------------------------|----------------------------|----------------------------|-------------------|---------------|-------------|-----|------------------------|------------|----------|---------------|-----------|-----------|
| 4-Dec  | 3927 Melrose              | 0                          | 0                          | 0                 | 0             | 7           | 6.8 | 0.02                   | 186        | 0.2      | 397           | 0.2       | 0.023     |
| 11-Dec | Pumphouse                 |                            |                            | 0                 | 0             | 7           | 6.8 | 0.03                   | 190        | 0.2      | 405           |           |           |
| 18-Dec | 3847 Melrose              |                            |                            | 0                 | 0             | 6           | 6.8 | 0.01                   | 186        | 0.2      | 396           |           |           |
|        | <b>Average</b>            | 0                          | 0                          | 0                 | 0             | 6.7         | 6.8 | 0.02                   | 187.3      | 0.2      | 399.3         | 0.20      | 0.023     |
|        | <b>Maximum</b>            | 0                          | 0                          | 0                 | 0             | 7           | 6.8 | 0.03                   | 190        | 0.2      | 405           | 0.2       | 0.023     |
|        | <b>Minimum</b>            | 0                          | 0                          | 0                 | 0             | 6           | 6.8 | 0.01                   | 186        | 0.2      | 396           | 0.2       | 0.023     |

Red font indicates non-compliance with Canadian Drinking Water Guidelines / BC Approved Water Quality Guidelines

Coliforms are measured in colony forming units (CFU) per 100 millilitres of water

\* Yellow Column Coliform tests are done by Health Department

Green tests are completed by RDN

**Comments:**

Not all bacteria test results are returned from Health Department therefore some data may be missing.

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.