



# Regional District of Nanaimo - Water Services Department

## Melrose Terrace Water Analysis - 2015 Monthly Report



| Date      | Sample Location (Address) | Health Department |                  | In-House |                  |            |      |                               |                               |              |                      |                   |                  |
|-----------|---------------------------|-------------------|------------------|----------|------------------|------------|------|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | E. coli *         | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH   | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Total Iron (mg/L) | Manganese (mg/L) |
| 1-Dec-15  | 3927 Melrose              | 0                 | 0                | 0        | 0                | 8          | 6.76 | 0.01                          | 241.0                         | 0.24         | 500.0                | 0.07              | 0.016            |
| 8-Dec-15  | 3927 Melrose              |                   |                  | 0        | 0                | 10         | 6.77 | 0.01                          | 250.0                         | 0.25         | 516.0                |                   |                  |
| 15-Dec-15 | 3927 Melrose              |                   |                  | 0        | 0                | 8          | 6.70 | 0.01                          | 237.0                         | 0.24         | 488.0                |                   |                  |
|           |                           |                   |                  |          |                  |            |      |                               |                               |              |                      |                   |                  |
|           |                           |                   |                  |          |                  |            |      |                               |                               |              |                      |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 8.7        | 6.7  | 0.01                          | 242.7                         | 0.2          | 501.3                | 0.07              | 0.016            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 10         | 6.77 | 0.01                          | 250                           | 0.25         | 516                  | 0.07              | 0.016            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 8          | 6.7  | 0.01                          | 237                           | 0.24         | 488                  | 0.07              | 0.016            |

**Red font indicates non-compliance with Canadian Drinking Water Guidelines**

Aesthetic Objective for Iron is ≤0.3 mg/L

Aesthetic Objective for Manganese is ≤0.05mg/L

\*Coliforms are measured in colony forming units (CFU) per 100 millilitres of water (CFU/100mL)

Yellow Column Coliform tests are completed by Health Department

Blue column tests are completed by RDN

**Comments:**

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



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|-----------|---------------------------|-------------------|------------------|----------|------------------|------------|------|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | E. coli *         | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH   | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Total Iron (mg/L) | Manganese (mg/L) |
| 2-Nov-15  | 3927 Melrose              | 0                 | 0                | 0        | 0                | 13         | 6.73 | 0.01                          | 253.0                         | 0.25         | 522.0                |                   |                  |
| 9-Nov-15  | 3927 Melrose              |                   |                  | 0        | 0                | 14         | 7.01 | 0.03                          | 251.0                         | 0.25         | 517.0                |                   |                  |
| 17-Nov-15 | 3927 Melrose              |                   |                  | 0        | 0                | 10         | 6.66 | 0.01                          | 247.0                         | 0.25         | 510.0                | 0.04              | 0.005            |
| 24-Nov-15 | 3927 Melrose              |                   |                  | 0        | 0                | 8          | 6.81 | 0.01                          | 238.0                         | 0.24         | 493.0                |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 11.3       | 6.8  | 0.02                          | 247.3                         | 0.2          | 510.5                | 0.04              | 0.005            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 14         | 7.01 | 0.03                          | 253                           | 0.25         | 522                  | 0.04              | 0.005            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 8          | 6.66 | 0.01                          | 238                           | 0.24         | 493                  | 0.04              | 0.005            |

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Aesthetic Objective for Iron is ≤0.3 mg/L

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|-----------|---------------------------|-------------------|------------------|----------|------------------|------------|------|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | E. coli *         | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH   | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Total Iron (mg/L) | Manganese (mg/L) |
| 6-Oct-15  | 3927 Melrose              | 0                 | 0                | 0        | 0                | 16         | 6.89 | 0.01                          | 263.0                         | 0.26         | 542.0                |                   |                  |
| 13-Oct-15 | 3927 Melrose              |                   |                  | 0        | 0                | 15         | 6.75 | 0.02                          | 260.0                         | 0.26         | 537.0                |                   |                  |
| 19-Oct-15 | 3927 Melrose              |                   |                  | 0        | 0                | 15         | 6.68 | 0.02                          | 261.0                         | 0.26         | 540.0                |                   |                  |
| 27-Oct-15 | 3927 Melrose              |                   |                  | 0        | 0                | 14         | 6.92 | 0.01                          | 257.0                         | 0.26         | 529.0                |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 15.0       | 6.8  | 0.02                          | 260.3                         | 0.3          | 537.0                | -                 | -                |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 16         | 6.92 | 0.02                          | 263                           | 0.26         | 542                  | 0                 | 0                |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 14         | 6.68 | 0.01                          | 257                           | 0.26         | 529                  | 0                 | 0                |

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Aesthetic Objective for Iron is ≤0.3 mg/L

Aesthetic Objective for Manganese is ≤0.05mg/L

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Yellow Column Coliform tests are completed by Health Department

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**Comments:**

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



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|-----------|---------------------------|-------------------|------------------|----------|------------------|------------|------|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | E. coli *         | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH   | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Total Iron (mg/L) | Manganese (mg/L) |
| 1-Sep-15  | 3927 Melrose              | 0                 | 0                | 0        | 0                | 19         | 6.86 | 0.01                          | 255.0                         | 0.25         | 526.0                | 0.05              | 0.015            |
| 8-Sep-15  | 3927 Melrose              |                   |                  | 0        | 0                | 20         | 6.82 | 0.03                          | 258.0                         | 0.26         | 532.0                |                   |                  |
| 15-Sep-15 | 3927 Melrose              |                   |                  | 0        | 0                | 20         | 6.90 | 0.02                          | 249.0                         | 0.25         | 514.0                |                   |                  |
| 21-Sep-15 | 3927 Melrose              |                   |                  | 0        | 0                | 17         | 6.83 | 0.01                          | 261.0                         | 0.26         | 539.0                |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 19.0       | 6.9  | 0.02                          | 255.8                         | 0.3          | 527.8                | 0.05              | 0.015            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 20         | 6.9  | 0.03                          | 261                           | 0.26         | 539                  | 0.05              | 0.015            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 17         | 6.82 | 0.01                          | 249                           | 0.25         | 514                  | 0.05              | 0.015            |

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**Comments:**

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



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|-----------|---------------------------|-------------------|------------------|----------|------------------|------------|------|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | E. coli *         | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH   | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Total Iron (mg/L) | Manganese (mg/L) |
| 4-Aug-15  | 3927 Melrose              | 0                 | 0                | 0        | 0                | 20         | 6.97 | 0.02                          | 221.0                         | 0.27         | 557.0                | 0.05              | 0.028            |
| 11-Aug-15 | 3927 Melrose              |                   |                  | 0        | 0                | 22         | 6.74 | 0.04                          | 257.0                         | 0.26         | 530.0                |                   |                  |
| 18-Aug-15 | 3927 Melrose              |                   |                  | 0        | 0                | 20         | 6.79 | 0.02                          | 258.0                         | 0.26         | 532.0                |                   |                  |
| 25-Aug-15 | 3927 Melrose              |                   |                  | 0        | 0                | 20         | 6.96 | 0.00                          | 251.0                         | 0.25         | 518.0                |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 20.5       | 6.9  | 0.02                          | 246.8                         | 0.3          | 534.3                | 0.05              | 0.028            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 22         | 6.97 | 0.04                          | 258                           | 0.27         | 557                  | 0.05              | 0.028            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 20         | 6.74 | 0                             | 221                           | 0.25         | 518                  | 0.05              | 0.028            |

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Yellow Column Coliform tests are completed by Health Department

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



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|----------------|---------------------------|-------------------|------------------|----------|------------------|------------|------|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|                |                           | E. coli *         | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH   | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Total Iron (mg/L) | Manganese (mg/L) |
| 7-Jul-15       | 3927 Melrose              | 0                 | 0                | 0        | 3                | 20         | 6.86 | 0.01                          | 237.0                         | 0.24         | 490.0                | 0.05              | 0.005            |
| 9-Jul-15       | 3927 Melrose              |                   |                  | 0        | 0                |            |      |                               |                               |              |                      |                   |                  |
| 14-Jul-15      | 3927 Melrose              |                   |                  | 0        | 0                | 21         | 6.57 | 0.04                          | 247.0                         | 0.25         | 510.0                |                   |                  |
| 21-Jul-15      | 3927 Melrose              |                   |                  | 0        | 0                | 20         | 7.08 | 0.03                          | 250.0                         | 0.25         | 517.0                |                   |                  |
| 27-Jul-15      | 3927 Melrose              |                   |                  | 0        | 0                | 20         | 6.82 | 0.02                          | 246.0                         | 0.24         | 507.0                |                   |                  |
| <b>Average</b> |                           | 0                 | 0                | 0        | 0.6              | 20.3       | 6.8  | 0.03                          | 245.0                         | 0.2          | 506.0                | 0.05              | 0.005            |
| <b>Maximum</b> |                           | 0                 | 0                | 0        | 3                | 21         | 7.08 | 0.04                          | 250                           | 0.25         | 517                  | 0.05              | 0.005            |
| <b>Minimum</b> |                           | 0                 | 0                | 0        | 0                | 20         | 6.57 | 0.01                          | 237                           | 0.24         | 490                  | 0.05              | 0.005            |

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|-----------|---------------------------|-------------------|------------------|----------|------------------|------------|------|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | E. coli *         | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH   | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Total Iron (mg/L) | Manganese (mg/L) |
| 2-Jun-15  | 3927 Melrose              | 0                 | 0                | 0        | 0                | 16         | 6.66 | 0.00                          | 239.0                         | 0.24         | 497.0                | 0.05              | 0.022            |
| 9-Jun-15  | 3927 Melrose              |                   |                  | 0        | 0                | 18         | 6.96 | 0.05                          | 234.0                         | 0.23         | 484.0                |                   |                  |
| 16-Jun-15 | 3927 Melrose              |                   |                  | 0        | 0                | 18         | 6.85 | 0.02                          | 230.0                         | 0.23         | 476.0                |                   |                  |
| 23-Jun-15 | 3927 Melrose              |                   |                  | 0        | 0                | 17         | 6.69 | 0.02                          | 237.0                         | 0.24         | 491.0                |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 17.3       | 6.8  | 0.02                          | 235.0                         | 0.2          | 487.0                | 0.05              | 0.022            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 18         | 6.96 | 0.05                          | 239                           | 0.24         | 497                  | 0.05              | 0.022            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 16         | 6.66 | 0                             | 230                           | 0.23         | 476                  | 0.05              | 0.022            |

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Yellow Column Coliform tests are completed by Health Department

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**Comments:**

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



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|-----------|---------------------------|-------------------|------------------|----------|------------------|------------|------|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | E. coli *         | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH   | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Total Iron (mg/L) | Manganese (mg/L) |
| 5-May-15  | 3927 Melrose              | 0                 | 0                | 0        | 0                | 12         | 6.90 | 0.01                          | 234.0                         | 0.23         | 485.0                | 0.08              | 0.009            |
| 11-May-15 | 3927 Melrose              |                   |                  | 0        | 0                | 15         | 6.46 | 0.00                          | 239.0                         | 0.24         | 494.0                |                   |                  |
| 19-May-15 | 3927 Melrose              |                   |                  | 0        | 0                | 15         | 6.90 | 0.02                          | 237.0                         | 0.24         | 488.0                |                   |                  |
| 26-May-15 | 3927 Melrose              |                   |                  | 0        | 0                | 16         | 6.51 | 0.03                          | 271.0                         | 0.27         | 558.0                |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 14.5       | 6.7  | 0.02                          | 245.3                         | 0.2          | 506.3                | 0.08              | 0.009            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 16         | 6.9  | 0.03                          | 271                           | 0.27         | 558                  | 0.08              | 0.009            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 12         | 6.46 | 0                             | 234                           | 0.23         | 485                  | 0.08              | 0.009            |

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Aesthetic Objective for Iron is ≤0.3 mg/L

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|-----------|---------------------------|-------------------|------------------|----------|------------------|------------|------|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | E. coli *         | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH   | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Total Iron (mg/L) | Manganese (mg/L) |
| 7-Apr-15  | 3927 Melrose              | 0                 | 0                | 0        | 0                | 12         | 6.61 | 0.00                          | 248.0                         | 0.25         | 515.0                | 0.12              | 0.034            |
| 14-Apr-15 | 3927 Melrose              |                   |                  | 0        | 0                | 10         | 6.65 | 0.02                          | 244.0                         | 0.24         | 505.0                |                   |                  |
| 21-Apr-15 | 3927 Melrose              |                   |                  | 0        | 0                | 10         | 6.63 | 0.02                          | 243.0                         | 0.24         | 503.0                |                   |                  |
| 28-Apr-15 | 3927 Melrose              |                   |                  | 0        | 0                | 11         | 6.52 | 0.02                          | 240.0                         | 0.24         | 496.0                |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 10.8       | 6.6  | 0.02                          | 243.8                         | 0.2          | 504.8                | 0.12              | 0.034            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 12         | 6.65 | 0.02                          | 248                           | 0.25         | 515                  | 0.12              | 0.034            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 10         | 6.52 | 0                             | 240                           | 0.24         | 496                  | 0.12              | 0.034            |

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|-----------|---------------------------|-------------------|------------------|----------|------------------|------------|------|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | E. coli *         | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH   | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Total Iron (mg/L) | Manganese (mg/L) |
| 4-Mar-15  | 3927 Melrose              | 0                 | 0                | 0        | 0                | 8          | 6.54 | 0.01                          | 222.0                         | 0.22         | 457.0                | 0.09              | 0.049            |
| 9-Mar-15  | 3927 Melrose              |                   |                  | 0        | 0                | 8          | 6.85 | 0.01                          | 236.0                         | 0.23         | 488.0                |                   |                  |
| 16-Mar-15 | 3927 Melrose              |                   |                  | 0        | 0                | 10         | 6.90 | 0.00                          | 224.0                         | 0.22         | 463.0                |                   |                  |
| 24-Mar-14 | 3927 Melrose              |                   |                  | 0        | 0                | 12         | 6.75 | 0.00                          | 238.0                         | 0.24         | 492.0                |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 9.5        | 6.8  | 0.01                          | 230.0                         | 0.2          | 475.0                | 0.09              | 0.049            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 12         | 6.9  | 0.01                          | 238                           | 0.24         | 492                  | 0.09              | 0.049            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 8          | 6.54 | 0                             | 222                           | 0.22         | 457                  | 0.09              | 0.049            |

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|-----------|---------------------------|-------------------|------------------|----------|------------------|------------|------|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | E. coli *         | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH   | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Total Iron (mg/L) | Manganese (mg/L) |
| 3-Feb-15  | 3927 Melrose              | 0                 | 0                | 0        | 0                | 7          | 6.78 | 0.03                          | 234.0                         | 0.23         | 485.0                | 0.08              | 0.014            |
| 10-Feb-15 | 3927 Melrose              |                   |                  | 0        | 0                | 9          | 6.74 | 0.02                          | 233.0                         | 0.23         | 483.0                |                   |                  |
| 16-Feb-15 | 3927 Melrose              |                   |                  | 0        | 0                | 8          | 6.86 | 0.02                          | 232.0                         | 0.23         | 479.0                |                   |                  |
| 24-Feb-15 | 3927 Melrose              |                   |                  | 0        | 0                | 9          | 6.87 | 0.02                          | 223.0                         | 0.22         | 461.0                |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 8.3        | 6.8  | 0.02                          | 230.5                         | 0.2          | 477.0                | 0.08              | 0.014            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 9          | 6.87 | 0.03                          | 234                           | 0.23         | 485                  | 0.08              | 0.014            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 7          | 6.74 | 0.02                          | 223                           | 0.22         | 461                  | 0.08              | 0.014            |

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Aesthetic Objective for Manganese is ≤0.05mg/L

\*Coliforms are measured in colony forming units (CFU) per 100 millilitres of water (CFU/100mL)

Yellow Column Coliform tests are completed by Health Department

Blue column tests are completed by RDN

**Comments:**

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



# Regional District of Nanaimo - Water Services Department

## Melrose Terrace Water Analysis - 2015 Monthly Report



| Date      | Sample Location (Address) | Health Department |                  | In-House |                  |            |      |                               |                               |              |                      |                   |                  |
|-----------|---------------------------|-------------------|------------------|----------|------------------|------------|------|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | E. coli *         | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH   | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Total Iron (mg/L) | Manganese (mg/L) |
| 7-Jan-15  | 3927 Melrose              | 0                 | 0                | 0        | 0                | 5          | 6.78 | 0.01                          | 237.0                         | 0.24         | 490.0                | 0.07              | 0.003            |
| 12-Jan-15 | 3927 Melrose              |                   |                  | 0        | 0                | 6          | 6.59 | 0.03                          | 241.0                         | 0.24         | 498.0                |                   |                  |
| 19-Jan-15 | 3927 Melrose              |                   |                  | 0        | 0                | 7          | 6.80 | 0.01                          | 244.0                         | 0.24         | 505.0                |                   |                  |
| 27-Jan-15 | 3927 Melrose              |                   |                  | 0        | 0                | 7          | 6.94 | 0.02                          | 237.0                         | 0.24         | 491.0                |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 6.3        | 6.8  | 0.02                          | 239.8                         | 0.2          | 496.0                | 0.07              | 0.003            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 7          | 6.94 | 0.03                          | 244                           | 0.24         | 505                  | 0.07              | 0.003            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 5          | 6.59 | 0.01                          | 237                           | 0.24         | 490                  | 0.07              | 0.003            |

**Red font indicates non-compliance with Canadian Drinking Water Guidelines**

Aesthetic Objective for Iron is ≤0.3 mg/L

Aesthetic Objective for Manganese is ≤0.05mg/L

\*Coliforms are measured in colony forming units (CFU) per 100 millilitres of water (CFU/100mL)

Yellow Column Coliform tests are completed by Health Department

Blue column tests are completed by RDN

**Comments:**

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