Drinking Water Quality and Compliance

The Water Security Agency and the Ministry of Environment requires that at least once each year waterworks owners provide notification to consumers of the quality of water produced and supplied as well as information on the performance of the waterworks in submitting samples as required by a Minister’s Order or Permit to Operate a waterworks. The following is a summary of the City of Melville water quality and sample submission compliance records for the year of 2019 time period. This report was completed on January 9, 2020. Readers should refer to Saskatchewan Water Security Agency’s Municipal Drinking Water Quality Monitoring Guidelines, June 2015, EPB 502 for more information on minimum sample submission requirements and the meaning of type of sample. Permit requirements for a specific waterworks may require more sampling than outlined in the department’s monitoring guidelines. If consumers need more information on the nature and significance of specific water tests, for example, “what is the significance of selenium in a water supply”, more detailed information is available from: http://www.hc-sc.gc.ca/ewh-semt/pubs/water-eau/index_e.html

Water Quality Standards

Bacteriological Quality

<table>
<thead>
<tr>
<th>Regular Parameter/Location (%)</th>
<th>Limit</th>
<th>Required</th>
<th>Submitted</th>
<th># of Positive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Coliform</td>
<td>0 Organisms/100 mL</td>
<td>72</td>
<td>81</td>
<td>0</td>
</tr>
<tr>
<td>E. coli</td>
<td>0 Organisms/100 mL</td>
<td>72</td>
<td>81</td>
<td>0</td>
</tr>
<tr>
<td>Background Bacteria</td>
<td>Less than 200/100 mL</td>
<td>72</td>
<td>81</td>
<td>0</td>
</tr>
</tbody>
</table>

Water Disinfection – Chlorine Residual in Distribution System for Test Results Submitted with Bacteriological Samples

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Limit (mg/L)</th>
<th>Test Level Range</th>
<th># Tests Performed</th>
<th># Tests Not Meeting Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine</td>
<td>0.1 mg/L free OR</td>
<td>0.69-2.52</td>
<td>81</td>
<td>0</td>
</tr>
<tr>
<td>Residual</td>
<td>0.5 mg/L total</td>
<td>1.00-3.00</td>
<td>81</td>
<td>0</td>
</tr>
</tbody>
</table>

Chemical – Trihalomethanes (THMs) and Haloacetic Acids (HAAs)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Limit (mg/L)</th>
<th>Sample Result (average)</th>
<th># Samples Required</th>
<th># Samples Submitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trihalomethanes</td>
<td>0.1</td>
<td>0.0513</td>
<td>4 (1 every 3 months)</td>
<td>4</td>
</tr>
<tr>
<td>Haloacetic Acids</td>
<td>0.080</td>
<td>0.0250</td>
<td>4 (1 every 3 months)</td>
<td>4</td>
</tr>
</tbody>
</table>

More information on water quality and sample submission performance may be obtained from:

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