

Drinking Water Quality and Compliance

Village of St. Louis - 2011 Annual Notice to Consumers

Saskatchewan Environment requires that at least once each year that the Village 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 a permit to operate a waterworks. The following is a summary of the St. Louis water quality and sample submission compliance record for the time period leading up to December 28, 2011. This report was compiled on January 6, 2012. Readers should refer to Saskatchewan Environment's "Municipal Drinking Water Quality Monitoring Guidelines, November 2002" for more information on minimum sample submission requirements and the meaning of the type of sample. More detailed information is available at http://www.hc-sc.gc.ca/ehp/ehd/catalogue/bch_pubs/dwgsup_doc/dwgsup_doc.htm.

Water Quality Standards

Bacteriological Quantity

| | Limit | Samples Required | Samples Submitted | Positive |
|---------------------|---------------|------------------|-------------------|----------|
| Total Coliform | 0/100 ml | 52 | 52 | 0 |
| Background Bacteria | 200 NO/100 ml | 52 | 52 | 0 |

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

| Minimum Parameter Limit | Total Chlorine Residual Range | Free Chlorine Residual Range | # Tests Required | # Tests Submitted | # Adequate Chlorine (%) |
|---|-------------------------------|------------------------------|------------------|-------------------|-------------------------|
| Chlorine 0.1 mg/L free OR Residual 0.5 mg/L total | .24 mg/l - .78 mg/l | .15 mg/l - .62 mg/l | 52 | 52 | 98% |

Turbidity - From Sask Water Treatment Plant Records

| Parameter | Limit (NTU) | Test Level Range | # Tests Not Meeting Requirements | Maximum Turbidity (NTU) | # Tests Required | # Tests Performed (with Sask Water) |
|-----------|-------------|------------------|----------------------------------|-------------------------|------------------|-------------------------------------|
| Turbidity | 0.3 NTU | 0.11 – 0.46 NTU | 1 | 0.46 NTU | cont. | cont. |

Chemical - Health Category

Samples are submitted by Sask Water, Wakaw – Humboldt Pipeline. These test for arsenic, barium, boron, cadmium, chromium, fluoride, lead, manganese, selenium and uranium. Sample results indicated that the provincial drinking water quality standards were not exceeded.

| Parameter | Limit MAC(mg/L) | Limit IMAC(mg/L) | Sample Result(s) | # Samples Exceeding Limit |
|-----------|-----------------|------------------|------------------|---------------------------|
| Arsenic | 0.025 | | 0.0002 mg/L | 0 |
| Barium | 1.0 | | 0.075 mg/L | 0 |
| Boron | | 5.0 mg/L | 0.03 mg/L | 0 |
| Cadmium | 0.005 | | 0.00001 mg/L | 0 |

| | | | |
|-----------|------|--------------|---|
| Chromium | 0.05 | <0.0005 mg/L | 0 |
| Fluoride | 1.5 | 0.69 mg/L | 0 |
| Lead | 0.01 | 0.0001 mg/L | 0 |
| Manganese | 0.5 | 0.0005 mg/L | 0 |
| Selenium | 0.01 | 0.0008 mg/L | 0 |
| Uranium | 0.02 | 0.0001 mg/L | 0 |

Chemical – Trihalomethanes (THMs)

| Parameter | THMs Limit (mg/L) | Sample Result (average) | # Samples Required | # Samples Submitted |
|-----------------|----------------------|----------------------------|-----------------------|------------------------|
| Trihalomethanes | 0.1 100 ug/l | 69.8 ug/l | 4 | 4 |

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

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