

2.2.1 Bacteriological Data: Water Treatment Plants

February 2015

Treated Water Entering the Distribution System

| | ROSSDALE | | | E.L. SMITH | | | YTD (combined) | | | Limit | Unit |
|---------------------------|-----------|-------|-------|------------|-------|-------|----------------|-------|-------|----------|-----------|
| | # Samples | # +ve | % +ve | # Samples | # +ve | % +ve | # Samples | # +ve | % +ve | Approval | |
| Coliforms, total | 28 | 0 | 0.00 | 28 | 0 | 0.00 | 118 | 0 | 0.00 | 0/100 mL | PA/100 mL |
| E. coli | 28 | 0 | 0.00 | 28 | 0 | 0.00 | 118 | 0 | 0.00 | 0/100 mL | PA/100 mL |
| Heterotrophic Plate Count | 28 | 0 | 0.00 | 28 | 2 | 0.07 | 118 | 2 | 0.07 | N/A | CFU/mL |

Water Entering the Plant Reservoir

| | ROSSDALE | | | E.L. SMITH | | | YTD (combined) | | | Limit | Unit |
|---------------------------|-----------|-------|-------|------------|-------|-------|----------------|-------|-------|----------|-----------|
| | # Samples | # +ve | % +ve | # Samples | # +ve | % +ve | # Samples | # +ve | % +ve | Approval | |
| Coliforms, total | 28 | 0 | 0.00 | 28 | 0 | 0.00 | 118 | 0 | 0.00 | N/A | PA/100 mL |
| E. coli | 28 | 0 | 0.00 | 28 | 0 | 0.00 | 118 | 0 | 0.00 | N/A | PA/100 mL |
| Heterotrophic Plate Count | 28 | 0 | 0.00 | 28 | 1 | 0.04 | 118 | 2 | 0.04 | N/A | CFU/mL |

Raw River Water Entering the Treatment Plants

| | ROSSDALE | | | E.L. SMITH | | | YTD (combined) | | | Limit | Unit |
|---------------------------|-----------|-------|-------|------------|-------|-------|----------------|-------|-------|----------|------------|
| | # Samples | # +ve | % +ve | # Samples | # +ve | % +ve | # Samples | # +ve | % +ve | Approval | |
| Coliforms, total | 28 | 28 | 1.00 | 4 | 4 | 1.00 | 67 | 67 | 1.00 | N/A | MPN/100 mL |
| E. coli | 28 | 28 | 1.00 | 4 | 4 | 1.00 | 67 | 67 | 1.00 | N/A | MPN/100 mL |
| Heterotrophic Plate Count | 1 | 1 | 1.00 | 1 | 1 | 1.00 | 2 | 2 | 1.00 | N/A | CFU/mL |

2.2.2 Bacteriological Data: Distribution System

February 2015

| | Coliforms, total | | | E. coli | | | HPC | | |
|------------------------------------------------|------------------|-------|-------|---------|-------|-------|-------|-------|-------|
| | Count | # +ve | % +ve | Count | # +ve | % +ve | Count | # +ve | % +ve |
| January | | | | | | | | | |
| FIELD DISTRIBUTION | 105 | 0 | 0.0 | 105 | 0 | 0.0 | 105 | 3 | 2.9 |
| FIELD DISTRIBUTION - PLPH | 50 | 0 | 0.0 | 50 | 0 | 0.0 | 0 | | 0.0 |
| FIELD RESERVOIR | 44 | 0 | 0.0 | 44 | 0 | 0.0 | 44 | 0 | 0.0 |
| FIELD RESERVOIR - PLPH (duplicate-not counted) | 39 | 0 | 0.0 | 39 | 0 | 0.0 | 0 | 0 | 0.0 |
| Monthly | 199 | 0 | 0.0 | 199 | 0 | 0.0 | 149 | 3 | 2.0 |
| February | | | | | | | | | |
| FIELD DISTRIBUTION | 103 | 0 | 0.0 | 103 | 0 | 0.0 | 103 | 8 | 7.8 |
| FIELD DISTRIBUTION - PLPH | 50 | 0 | 0.0 | 50 | 0 | 0.0 | 0 | | 0.0 |
| FIELD RESERVOIR | 44 | 0 | 0.0 | 44 | 0 | 0.0 | 44 | 0 | 0.0 |
| FIELD RESERVOIR - PLPH (duplicate-not counted) | 44 | 0 | 0.0 | 44 | 0 | 0.0 | 0 | 0 | 0.0 |
| Monthly | 197 | 0 | 0.0 | 197 | 0 | 0.0 | 147 | 8 | 5.4 |
| Year to Date | 396 | 0 | 0.0 | 396 | 0 | 0.0 | 296 | 11 | 3.7 |

Guidelines for Canadian Drinking Water Quality recommend 178 bacteriological samples for a city the size of Edmonton. HPC are not required.

Testing conducted by Laboratory for Public Health are labelled with PLPH.

2.2.2 Bacteriological Data: Distribution System

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Samples from Depressurizations

| | Coliforms, total | | | E. coli | | |
|----------|------------------|-------|-------|---------|-------|-------|
| | Count | # +ve | % +ve | Count | # +ve | % +ve |
| January | 38 | 0 | 0.0 | 38 | 0 | 0.0 |
| February | 36 | 0 | 0.0 | 36 | 0 | 0.0 |
| YTD | 74 | 0 | 0.0 | 74 | 0 | 0.0 |

Samples from Complaints

| | Coliforms, total | | | E. coli | | | Heterotrophic Plate Count | | |
|----------|------------------|-------|-------|---------|-------|-------|---------------------------|-------|-------|
| | Count | # +ve | % +ve | Count | # +ve | % +ve | Count | # +ve | % +ve |
| January | 5 | 0 | 0.0 | 5 | 0 | 0.0 | 5 | 0 | 0.0 |
| February | 1 | 0 | 0.0 | 1 | 0 | 0.0 | 1 | 0 | 0.0 |
| YTD | 6 | 0 | 0.0 | 6 | 0 | 0.0 | 6 | 0 | 0.0 |