

**2.2.1 Bacteriological Data: Water Treatment Plants**

June 2016

**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	30	0	0	30	0	0	366	1	0	0/100 mL	PA/100 mL
E. coli	30	0	0	30	0	0	366	1	0	0/100 mL	PA/100 mL
Heterotrophic Plate Count	30	1	3	30	1	3	365	10	3	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	30	0	0	30	0	0	366	0	0	N/A	PA/100 mL
E. coli	30	0	0	30	0	0	366	0	0	N/A	PA/100 mL
Heterotrophic Plate Count	30	0	0	30	0	0	365	4	1	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	30	30	100	5	5	100	209	209	100	N/A	MPN/100 mL
E. coli	30	30	100	5	5	100	209	209	100	N/A	MPN/100 mL
Heterotrophic Plate Count	1	1	100	1	1	100	12	12	100	N/A	CFU/mL

January: Incorrect sampling procedure produced a false *E. coli* result at E.L. Smith WTP.

## 2.2.2 Bacteriological Data: Distribution System

June 2016

	Coliforms, total			E. coli			HPC		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
<b>January</b>									
FIELD DISTRIBUTION	115	0	0.0	115	0	0.0	115	9	7.8
FIELD DISTRIBUTION - PLPH	54	0	0.0	54	0	0.0	0		0.0
FIELD RESERVOIR	48	0	0.0	48	0	0.0	48	1	2.1
FIELD RESERVOIR - PLPH (duplicate-not counted)	48	0	0.0	48	0	0.0	0		0.0
Monthly	217	0	0.0	217	0	0.0	163	10	6.1
<b>February</b>									
FIELD DISTRIBUTION	110	0	0.0	110	0	0.0	110	1	0.9
FIELD DISTRIBUTION - PLPH	54	0	0.0	54	0	0.0	0		0.0
FIELD RESERVOIR	47	0	0.0	47	0	0.0	47	0	0.0
FIELD RESERVOIR - PLPH (duplicate-not counted)	47	0	0.0	47	0	0.0	0		0.0
Monthly	211	0	0.0	211	0	0.0	157	1	0.6
<b>March</b>									
FIELD DISTRIBUTION	107	0	0.0	107	0	0.0	107	2	1.9
FIELD DISTRIBUTION - PLPH	54	0	0.0	54	0	0.0	0		0.0
FIELD RESERVOIR	60	0	0.0	60	0	0.0	60	2	3.3
FIELD RESERVOIR - PLPH (duplicate-not counted)	59	0	0.0	59	0	0.0	0		0.0
Monthly	221	0	0.0	221	0	0.0	167	4	2.4
<b>April</b>									
FIELD DISTRIBUTION	110	0	0.0	110	0	0.0	110	1	0.9
FIELD DISTRIBUTION - PLPH	54	0	0.0	54	0	0.0	0		0.0
FIELD RESERVOIR	44	0	0.0	44	0	0.0	44	2	4.5
FIELD RESERVOIR - PLPH (duplicate-not counted)	44	0	0.0	44	0	0.0	0		0.0
Monthly	208	0	0.0	208	0	0.0	154	3	1.9
<b>May</b>									
FIELD DISTRIBUTION	112	1	0.9	112	0	0.0	112	4	3.6
FIELD DISTRIBUTION - PLPH	54	0	0.0	54	0	0.0	0		0.0
FIELD RESERVOIR	48	0	0.0	48	0	0.0	48	0	0.0
FIELD RESERVOIR - PLPH (duplicate-not counted)	48	0	0.0	48	0	0.0	0		0.0
Monthly	214	1	0.5	214	0	0.0	160	4	2.5
<b>June</b>									
FIELD DISTRIBUTION	105	0	0.0	105	0	0.0	105	3	2.9
FIELD DISTRIBUTION - PLPH	54	0	0.0	54	0	0.0	0		0.0
FIELD RESERVOIR	60	0	0.0	60	0	0.0	60	0	0.0
FIELD RESERVOIR - PLPH (duplicate-not counted)	60	0	0.0	60	0	0.0	0		0.0
Monthly	219	0	0.0	219	0	0.0	165	3	1.8
Year to Date	1,290	1	0.1	1,290	0	0.0	966	25	2.6

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.

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### Samples from Depressurizations

	Coliforms, total			E. coli			Heterotrophic Plate Count		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
January	46	0	0.0	46	0	0.0	0	0	0.0
February	50	0	0.0	50	0	0.0	0	0	0.0
March	70	0	0.0	70	0	0.0	0	0	0.0
April	72	0	0.0	72	0	0.0	0	0	0.0
May	76	1	1.3	76	0	0.0	2	0	0.0
June	91	0	0.0	91	0	0.0	0	0	0.0
YTD	405	1	0.2	405	0	0.0	2	0	0.0

### Samples from Complaints

	Coliforms, total			E. coli			Heterotrophic Plate Count		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
January	11	0	0.0	11	0	0.0	11	0	0.0
February	12	0	0.0	12	0	0.0	12	0	0.0
March	16	0	0.0	16	0	0.0	16	0	0.0
April	17	0	0.0	17	0	0.0	17	0	0.0
May	19	0	0.0	19	0	0.0	19	0	0.0
June	16	0	0.0	16	0	0.0	16	0	0.0
YTD	91	0	0.0	91	0	0.0	91	0	0.0