

**2.2.1 Bacteriological Data: Water Treatment Plants**

May 2017

**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	31	0	0	31	0	0	302	0	0	0/100 mL	PA/100 mL
E. coli	31	0	0	31	0	0	302	0	0	0/100 mL	PA/100 mL
Heterotrophic Plate Count	31	1	3	30	0	0	301	3	1	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	31	0	0	31	0	0	302	0	0	N/A	PA/100 mL
E. coli	31	0	0	31	0	0	302	0	0	N/A	PA/100 mL
Heterotrophic Plate Count	31	0	0	30	0	0	301	3	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	31	31	100	6	6	100	176	176	100	N/A	MPN/100 mL
E. coli	31	31	100	6	6	100	176	176	100	N/A	MPN/100 mL
Heterotrophic Plate Count	1	1	100	1	1	100	10	10	100	N/A	CFU/mL

## 2.2.2 Bacteriological Data: Distribution System

May 2017

	Coliforms, total			E. coli			HPC		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
<b>January</b>									
FIELD DISTRIBUTION	107	0	0.0	107	0	0.0	107	2	1.9
FIELD DISTRIBUTION - PLPH	62	0	0.0	62	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	217	0	0.0	217	0	0.0	155	2	1.3
<b>February</b>									
FIELD DISTRIBUTION	111	0	0.0	111	0	0.0	106	3	2.8
FIELD DISTRIBUTION - PLPH	54	1	1.9	54	0	0.0	0		0.0
FIELD RESERVOIR	48	0	0.0	48	0	0.0	48	2	4.2
FIELD RESERVOIR - PLPH (duplicate-not counted)	48	0	0.0	48	0	0.0	0		0.0
Monthly	213	1	0.5	213	0	0.0	154	5	3.2
<b>March</b>									
FIELD DISTRIBUTION	106	0	0.0	106	0	0.0	106	8	7.5
FIELD DISTRIBUTION - PLPH	56	1	1.8	56	0	0.0	0		0.0
FIELD RESERVOIR	58	0	0.0	58	0	0.0	58	0	0.0
FIELD RESERVOIR - PLPH (duplicate-not counted)	58	0	0.0	58	0	0.0	0		0.0
Monthly	220	1	0.5	220	0	0.0	164	8	4.9
<b>April</b>									
FIELD DISTRIBUTION	107	0	0.0	107	0	0.0	107	6	5.6
FIELD DISTRIBUTION - PLPH	56	0	0.0	56	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)	55	0	0.0	55	0	0.0	0		0.0
Monthly	207	0	0.0	207	0	0.0	151	6	4.0
<b>May</b>									
FIELD DISTRIBUTION	156	0	0.0	156	0	0.0	156	6	3.8
FIELD DISTRIBUTION - PLPH	56	0	0.0	56	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)	57	0	0.0	57	0	0.0	0		0.0
Monthly	272	0	0.0	272	0	0.0	216	8	3.7
Year to Date	1,129	2	0.2	1,129	0	0.0	840	29	3.5

Guidelines for Canadian Drinking Water Quality recommend 180 bacteriological samples for a city the size of Edmonton. Total Coliform and E.coli testing is required in the AEP Approval. HPC bacteria testing is additional testing and is not required by approval.

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

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### Samples from Depressurizations

	Coliforms, total			E. coli		
	Count	# +ve	% +ve	Count	# +ve	% +ve
January	64	0	0.0	64	0	0.0
February	65	0	0.0	65	0	0.0
March	65	0	0.0	65	0	0.0
April	42	0	0.0	42	0	0.0
May	70	0	0.0	70	0	0.0
YTD	306	0	0.0	306	0	0.0

### Samples from Complaints

	Coliforms, total			E. coli			Heterotrophic Plate Count		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
January	9	0	0.0	9	0	0.0	9	1	11.1
February	9	0	0.0	9	0	0.0	9	0	0.0
March	6	0	0.0	6	0	0.0	6	1	16.7
April	12	0	0.0	12	0	0.0	12	1	8.3
May	11	0	0.0	11	0	0.0	11	2	18.2
YTD	47	0	0.0	47	0	0.0	47	5	10.6