

## 2.2.1 Bacteriological Data: Water Treatment Plants

January 2018

### 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	62	0	0	0/100 mL	PA/100 mL
E. coli	31	0	0	31	0	0	62	0	0	0/100 mL	PA/100 mL
Heterotrophic Plate Count	31	0	0	31	1	3	62	1	2	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	31	0	0	61	0	0	N/A	PA/100 mL
E. coli	30	0	0	31	0	0	61	0	0	N/A	PA/100 mL
Heterotrophic Plate Count	30	0	0	31	0	0	61	0	0	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	35	35	100	N/A	MPN/100 mL
E. coli	30	30	100	5	5	100	35	35	100	N/A	MPN/100 mL
Heterotrophic Plate Count	1	1	100	0	0	0	1	1	100	N/A	CFU/mL

## 2.2.2 Bacteriological Data: Distribution System

January 2018

	Coliforms, total			E. coli			HPC		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
<b>January</b>									
FIELD DISTRIBUTION	106	0	0.0	106	0	0.0	104	9	8.7
FIELD DISTRIBUTION - PLPH	53	0	0.0	53	0	0.0	0		0.0
FIELD RESERVOIR	55	0	0.0	55	0	0.0	55	0	0.0
FIELD RESERVOIR - PLPH (duplicate-not counted)	66	0	0.0	66	0	0.0	0		0.0
Monthly	214	0	0.0	214	0	0.0	159	9	5.7
Year to Date	214	0	0.0	214	0	0.0	159	9	5.7

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.

\*follow up on June positive E. coli as per Alberta Environment and Parks (AEP) all showed negative results which suggests that the positive result was due to recent plumbing work. New faucet/pipes that were not exposed to a disinfection agent after installation which could have been a factor in the positive result.

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### Samples from Depressurizations

	Coliforms, total			E. coli		
	Count	# +ve	% +ve	Count	# +ve	% +ve
January	76	0	0.0	76	0	0.0
YTD	76	0	0.0	76	0	0.0

### Samples from Complaints

	Coliforms, total			E. coli			Heterotrophic Plate Count		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
January	7	0	0.0	7	0	0.0	7	1	14.3
YTD	7	0	0.0	7	0	0.0	7	1	14.3