

2.2.1 Bacteriological Data: Water Treatment Plants

April 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	30	0	0	30	0	0	240	0	0	0/100 mL	PA/100 mL
E. coli	30	0	0	30	0	0	240	0	0	0/100 mL	PA/100 mL
Heterotrophic Plate Count	30	0	0	30	0	0	240	2	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	30	0	0	30	0	0	240	0	0	N/A	PA/100 mL
E. coli	30	0	0	30	0	0	240	0	0	N/A	PA/100 mL
Heterotrophic Plate Count	30	0	0	30	0	0	240	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	30	30	100	5	5	100	139	139	100	N/A	MPN/100 mL
E. coli	30	30	100	5	5	100	139	139	100	N/A	MPN/100 mL
Heterotrophic Plate Count	1	1	100	1	1	100	8	8	100	N/A	CFU/mL

2.2.2 Bacteriological Data: Distribution System

April 2017

	Coliforms, total			E. coli			HPC		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
January									
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
February									
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
March									
FIELD DISTRIBUTION	106	0	0.0	106	0	0.0	106	8	7.5
FIELD DISTRIBUTION - PLPH	54	1	1.9	54	0	0.0	0		0.0
FIELD RESERVOIR	60	0	0.0	60	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
April									
FIELD DISTRIBUTION	107	0	0.0	107	0	0.0	107	6	5.6
FIELD DISTRIBUTION - PLPH	54	0	0.0	54	0	0.0	0		0.0
FIELD RESERVOIR	46	0	0.0	46	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
Year to Date	857	2	0.2	857	0	0.0	624	21	3.4

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.

2.2.2 Bacteriological Data: Distribution System

April 2017

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
YTD	236	0	0.0	236	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
YTD	36	0	0.0	36	0	0.0	36	3	8.3