

2.2.1 Bacteriological Data: Water Treatment Plants

April 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	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	1	3	30	0	0	240	4	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	30	0	0	239	0	0	N/A	PA/100 mL
E. coli	30	0	0	30	0	0	239	0	0	N/A	PA/100 mL
Heterotrophic Plate Count	30	1	3	30	0	0	239	4	2	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	137	137	100	N/A	MPN/100 mL
E. coli	30	30	100	5	5	100	137	137	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 2018

	Coliforms, total			E. coli			HPC		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
January									
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	0.0
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	0.0
Monthly	214	0	0.0	214	0	0.0	159	9	5.7
February									
FIELD DISTRIBUTION	96	0	0.0	96	0	0.0	96	3	3.1
FIELD DISTRIBUTION - PLPH	66	0	0.0	66	0	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	0.0
Monthly	206	0	0.0	206	0	0.0	140	3	2.1
March									
FIELD DISTRIBUTION	97	0	0.0	97	0	0.0	97	6	6.2
FIELD DISTRIBUTION - PLPH	58	0	0.0	58	0	0.0	0	0	0.0
FIELD RESERVOIR	44	0	0.0	44	0	0.0	44	1	2.3
FIELD RESERVOIR - PLPH (duplicate-not counted)	55	0	0.0	55	0	0.0	0	0	0.0
Monthly	199	0	0.0	199	0	0.0	141	7	5.0
April									
FIELD DISTRIBUTION	97	0	0.0	97	0	0.0	97	7	7.2
FIELD DISTRIBUTION - PLPH	57	0	0.0	57	0	0.0	0	0	0.0
FIELD RESERVOIR	44	0	0.0	44	0	0.0	44	1	2.3
FIELD RESERVOIR - PLPH (duplicate-not counted)	44	0	0.0	44	0	0.0	0	0	0.0
Monthly	198	0	0.0	198	0	0.0	141	8	5.7
Year to Date	817	0	0.0	817	0	0.0	581	27	4.6

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 2018

	Coliforms, total			E. coli			HPC		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
Samples from Complaints									
January	7	0	0.0	7	0	0.0	7	1	14.3
February	5	0	0.0	5	0	0.0	5	0	0.0
March	6	0	0.0	6	0	0.0	6	0	0.0
April	3	0	0.0	3	0	0.0	3	0	0.0
Year to Date	21	0	0.0	21	0	0.0	21	1	4.8
Samples from Depressurizations									
January	76	0	0.0	76	0	0.0	0	0	0.0
February	101	0	0.0	101	0	0.0	0	0	0.0
March	64	0	0.0	64	0	0.0	0	0	0.0
April	58	0	0.0	58	0	0.0	0	0	0.0
Year to Date	299	0	0.0	299	0	0.0	0	0	0.0