

2.2.1 Bacteriological Data: Water Treatment Plants

April 2015

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	0.00	30	0	0.00	240	0	0.00	0/100 mL	PA/100 mL
E. coli	30	0	0.00	30	0	0.00	240	0	0.00	0/100 mL	PA/100 mL
Heterotrophic Plate Count	30	0	0.00	30	0	0.00	240	2	0.00	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	0.00	30	0	0.00	240	0	0.00	N/A	PA/100 mL
E. coli	30	0	0.00	30	0	0.00	240	0	0.00	N/A	PA/100 mL
Heterotrophic Plate Count	30	0	0.00	30	1	0.03	240	3	0.03	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	1.00	4	4	1.00	136	136	1.00	N/A	MPN/100 mL
E. coli	30	30	1.00	4	4	1.00	136	136	1.00	N/A	MPN/100 mL
Heterotrophic Plate Count	1	1	1.00	1	1	1.00	6	6	1.00	N/A	CFU/mL

2.2.2 Bacteriological Data: Distribution System

April 2015

	Coliforms, total			E. coli			HPC		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
January									
FIELD DISTRIBUTION	105	0	0.0	105	0	0.0	105	3	2.9
FIELD DISTRIBUTION - PLPH	50	0	0.0	50	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)	39	0	0.0	39	0	0.0	0	0	0.0
Monthly	199	0	0.0	199	0	0.0	149	3	2.0
February									
FIELD DISTRIBUTION	103	0	0.0	103	0	0.0	103	8	7.8
FIELD DISTRIBUTION - PLPH	50	0	0.0	50	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)	44	0	0.0	44	0	0.0	0	0	0.0
Monthly	197	0	0.0	197	0	0.0	147	8	5.4
March									
FIELD DISTRIBUTION	99	0	0.0	99	0	0.0	98	5	5.1
FIELD DISTRIBUTION - PLPH	50	0	0.0	50	0	0.0	0		0.0
FIELD RESERVOIR	58	0	0.0	58	0	0.0	58	3	5.2
FIELD RESERVOIR - PLPH (duplicate-not counted)	58	0	0.0	58	0	0.0	0		0.0
Monthly	207	0	0.0	207	0	0.0	156	8	5.1
April									
FIELD DISTRIBUTION	97	0	0.0	97	0	0.0	97	4	4.1
FIELD DISTRIBUTION - PLPH	50	0	0.0	50	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	195	0	0.0	195	0	0.0	145	5	3.4
Year to Date	798	0	0.0	798	0	0.0	597	24	4.0

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		
	Count	# +ve	% +ve	Count	# +ve	% +ve
January	38	0	0.0	38	0	0.0
February	36	0	0.0	36	0	0.0
March	55	0	0.0	55	0	0.0
April	40	0	0.0	40	0	0.0
YTD	169	0	0.0	169	0	0.0

Samples from Complaints

	Coliforms, total			E. coli			Heterotrophic Plate Count		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
January	5	0	0.0	5	0	0.0	5	0	0.0
February	1	0	0.0	1	0	0.0	1	0	0.0
March	8	0	0.0	8	0	0.0	8	1	12.5
April	4	0	0.0	4	0	0.0	4	0	0.0
YTD	18	0	0.0	18	0	0.0	18	1	5.6