

## 2.2.1 Bacteriological Data: Water Treatment Plants

July 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	424	0	0	0/100 mL	PA/100 mL
E. coli	31	0	0	31	0	0	424	0	0	0/100 mL	PA/100 mL
Heterotrophic Plate Count	31	0	0	31	0	0	424	7	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	31	0	0	31	0	0	423	0	0	N/A	PA/100 mL
E. coli	31	0	0	31	0	0	423	0	0	N/A	PA/100 mL
Heterotrophic Plate Count	31	1	3	31	0	0	423	11	3	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	4	4	100	242	242	100	N/A	MPN/100 mL
E. coli	31	31	100	4	4	100	242	242	100	N/A	MPN/100 mL
Heterotrophic Plate Count	1	1	100	1	1	100	14	14	100	N/A	CFU/mL

**2.2.2 Bacteriological Data: Distribution System  
July 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	0.0
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
<b>February</b>									
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
<b>March</b>									
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
<b>April</b>									
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
<b>May</b>									
FIELD DISTRIBUTION	152	1	0.7	152	0	0.0	152	15	9.9
FIELD DISTRIBUTION - PLPH	60	0	0.0	60	0	0.0	0	0	0.0
FIELD RESERVOIR	58	0	0.0	58	0	0.0	58	4	6.9
FIELD RESERVOIR - PLPH (duplicate-not counted)	57	0	0.0	57	0	0.0	0	0	0.0
Monthly	270	1	0.4	270	0	0.0	210	19	9.0

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	Coliforms, total			E. coli			HPC		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
<b>June</b>									
FIELD DISTRIBUTION	124	0	0.0	124	0	0.0	124	5	4.0
FIELD DISTRIBUTION - PLPH	58	0	0.0	58	0	0.0	0	0	0.0
FIELD RESERVOIR	52	0	0.0	52	0	0.0	52	1	1.9
FIELD RESERVOIR - PLPH (duplicate-not counted)	48	0	0.0	48	0	0.0	0	0	0.0
Monthly	234	0	0.0	234	0	0.0	176	6	3.4
<b>July</b>									
FIELD DISTRIBUTION	131	0	0.0	131	0	0.0	131	4	3.1
FIELD DISTRIBUTION - PLPH	57	0	0.0	57	0	0.0	0	0	0.0
FIELD RESERVOIR	63	0	0.0	63	0	0.0	63	1	1.6
FIELD RESERVOIR - PLPH (duplicate-not counted)	59	0	0.0	59	0	0.0	0	0	0.0
Monthly	251	0	0.0	251	0	0.0	194	5	2.6
Year to Date	1,572	1	0.1	1,572	0	0.0	1,161	57	4.9

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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	Coliforms, total			E. coli			HPC		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
<b>Samples from Complaints</b>									
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
May	4	0	0.0	4	0	0.0	4	0	0.0
June	5	0	0.0	5	0	0.0	5	0	0.0
July	4	0	0.0	4	0	0.0	4	1	25.0
Year to Date	34	0	0.0	34	0	0.0	34	2	5.9
<b>Samples from Depressurizations</b>									
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	59	0	0.0	59	0	0.0	0	0	0.0
May	115	1	0.9	115	0	0.0	9	2	22.2
June	80	0	0.0	80	0	0.0	0	0	0.0
July	113	6	5.3	113	0	0.0	0	0	0.0
Year to Date	608	7	1.2	608	0	0.0	9	2	22.2