

2.2.1 Bacteriological Data: Water Treatment Plants

June 2019

Treated Water Entering the Distribution System

	# of +VE Samples YTD		# of Samples YTD		Limit	Required Frequency - Each Plant*	Unit
	Rossdale	Smith	Rossdale	Smith			
Coliforms, total	0	0	181	181	0/100 mL	[Daily]	PA/100mL
E. coli	0	0	181	181	0/100 mL	[Daily]	PA/100mL
Heterotrophic Plate Count	181	181	181	181	N/A	[Daily]	CFU/mL

Water Entering the Plant Reservoir

	# of +VE Samples YTD		# of Samples YTD		Limit	Required Frequency - Each Plant*	Unit
	Rossdale	Smith	Rossdale	Smith			
Coliforms, total	0	0	181	181	N/A	[Daily]	PA/100mL
E. coli	0	0	181	181	N/A	[Daily]	PA/100mL
Heterotrophic Plate Count	181	181	181	181	N/A	[Daily]	CFU/mL

Raw River Water Entering the Treatment Plants

								Limits		Unit	
	ROSSDALE			E.L. SMITH			Rossdale	Smith	GCDWQ or Approval		Required Frequency - Each Plant*
	Mean	Min	Max	Mean	Min	Max	# of Samples YTD				
Coliforms, total	1,414	0	24,200	1,941	261	22,400	186	28	N/A	[Weekly]	MPN/100 mL
E. coli	138	0	2,100	181	27	830	186	28	N/A	[Weekly]	MPN/100 mL
Heterotrophic Plate Count	315	50	870	2,332	80	12,600	6	6	N/A	[Monthly]	[CFU/mL]

* Indicates EPCOR Operations Program.

2.2.2 Bacteriological Data: Distribution System

June 2019

	Coliforms, total			E. coli			HPC		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
January									
FIELD DISTRIBUTION	114	0	0.0	114	0	0.0	114	114	100
FIELD DISTRIBUTION - PLPH	57	0	0.0	57	0	0.0	0	0	0.0
FIELD RESERVOIR	66	0	0.0	66	0	0.0	66	66	100
FIELD RESERVOIR - PLPH (duplicate-not counted)	60	0	0.0	60	0	0.0	0	0	0.0
Monthly	237	0	0.0	237	0	0.0	180	180	100.0
February									
FIELD DISTRIBUTION	94	0	0.0	94	0	0.0	94	94	100
FIELD DISTRIBUTION - PLPH	56	0	0.0	56	0	0.0	0	0	0.0
FIELD RESERVOIR	54	0	0.0	54	0	0.0	54	54	100
FIELD RESERVOIR - PLPH (duplicate-not counted)	48	0	0.0	48	0	0.0	0	0	0.0
Monthly	204	0	0.0	204	0	0.0	148	148	100.0
March									
FIELD DISTRIBUTION	106	0	0.0	106	0	0.0	106	106	100
FIELD DISTRIBUTION - PLPH	56	0	0.0	56	0	0.0	0	0	0.0
FIELD RESERVOIR	52	0	0.0	52	0	0.0	52	52	100
FIELD RESERVOIR - PLPH (duplicate-not counted)	48	0	0.0	48	0	0.0	0	0	0.0
Monthly	214	0	0.0	214	0	0.0	158	158	100.0
April									
FIELD DISTRIBUTION	101	0	0.0	101	0	0.0	101	101	100
FIELD DISTRIBUTION - PLPH	56	0	0.0	56	0	0.0	0	0	0.0
FIELD RESERVOIR	54	0	0.0	54	0	0.0	54	54	100
FIELD RESERVOIR - PLPH (duplicate-not counted)	48	0	0.0	48	0	0.0	0	0	0.0
Monthly	211	0	0.0	211	0	0.0	155	155	100.0
May									
FIELD DISTRIBUTION	122	0	0.0	122	0	0.0	122	122	100
FIELD DISTRIBUTION - PLPH	58	0	0.0	58	0	0.0	0	0	0.0
FIELD RESERVOIR	67	0	0.0	67	0	0.0	67	67	100
FIELD RESERVOIR - PLPH (duplicate-not counted)	48	0	0.0	48	0	0.0	0	0	0.0
Monthly	247	0	0.0	247	0	0.0	189	189	100.0
June									
FIELD DISTRIBUTION	116	2	1.7	116	0	0.0	116	116	100
FIELD DISTRIBUTION - PLPH	60	0	0.0	60	0	0.0	1	1	100.0
FIELD RESERVOIR	55	0	0.0	55	0	0.0	55	55	100
FIELD RESERVOIR - PLPH (duplicate-not counted)	47	0	0.0	47	0	0.0	0	0	0.0
Monthly	231	2	0.9	231	0	0.0	172	172	100.0
Year to Date	1,344	2	0.1	1,344	0	0.0	1,002	1,002	100.0

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

June 2019

	Coliforms, total			E. coli			HPC			
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve	
Samples from Complaints										
January	13	0	0.0	13	0	0.0	13	13	100.0	
February	14	0	0.0	14	0	0.0	14	14	100.0	
March	11	0	0.0	11	0	0.0	9	9	100.0	
April	18	0	0.0	18	0	0.0	18	18	100.0	
May	9	0	0.0	9	0	0.0	9	9	100.0	
June	13	1	7.7	13	0	0.0	13	13	100.0	
	Year to Date	78	1	1.3	78	0	0.0	76	76	100.0
Samples from Depressurizations										
January	61	0	0.0	61	0	0.0	0	0	0.0	
February	60	0	0.0	60	0	0.0	0	0	0.0	
March	105	1	1.0	105	0	0.0	0	0	0.0	
April	46	0	0.0	46	0	0.0	0	0	0.0	
May	76	0	0.0	76	0	0.0	0	0	0.0	
June	102	0	0.0	102	0	0.0	4	4	100.0	
	Year to Date	450	1	0.2	450	0	0.0	4	4	100.0