

**2.2.1 Bacteriological Data: Water Treatment Plants
2023**

	Coliforms, total					E. coli					cATP (pg/mL)				
	Count	# +ve	% +ve	Mean	Min	Max	# +ve	% +ve	Mean	Min	Max	Count	Mean	Min	Max
January															
Rossdale Raw (MPN/100mL)	31			84	24	308			4	1	26	1	27.2	27.2	27.2
E.L. Smith Raw (MPN/100mL)	4			72	40	120			1	1	1	0			
Raw River Water Entering the Treatment Plants	35			83	24	308			4	1	26	1	27.2	27.2	27.2
Rossdale Treated (PA/100mL)	31	0	0.0				0	0.0				31	0.69	0.10	1.99
E.L. Smith Treated (PA/100mL)	31	0	0.0				0	0.0				31	0.65	0.11	1.00
Water Entering the Plant Reservoir	62	0	0.0				0	0.0				62	0.67	0.10	1.99
Rossdale Reservoir (PA/100mL)	31	0	0.0				0	0.0				31	0.71	0.12	1.07
E.L. Smith Reservoir (PA/100mL)	31	0	0.0				0	0.0				31	0.60	0.13	1.81
Treated Water Entering the Distribution System	62	0	0.0				0	0.0				62	0.66	0.12	1.81
February															
Rossdale Raw (MPN/100mL)	28			65	21	166			9	1	24	1	32.2	32.2	32.2
E.L. Smith Raw (MPN/100mL)	4			36	25	51			1	1	1	1	27.0	27.0	27.0
Raw River Water Entering the Treatment Plants	32			61	21	166			8	1	24	2	29.6	27.0	32.2
Rossdale Treated (PA/100mL)	28	0	0.0				0	0.0				28	0.85	0.11	2.10
E.L. Smith Treated (PA/100mL)	28	0	0.0				0	0.0				28	0.82	0.10	2.51
Water Entering the Plant Reservoir	56	0	0.0				0	0.0				56	0.84	0.10	2.51
Rossdale Reservoir (PA/100mL)	28	0	0.0				0	0.0				28	0.76	0.10	1.71
E.L. Smith Reservoir (PA/100mL)	28	0	0.0				0	0.0				28	0.77	0.11	2.25
Treated Water Entering the Distribution System	56	0	0.0				0	0.0				56	0.77	0.10	2.25

PA = present or absent, MPN = most probable number, cATP = cellular adenosine triphosphate

**2.2.2 Bacteriological Data: Distribution System
February 2023**

	Coliforms, total (PA/100 mL)			E. coli (PA/100 mL)		cATP (pg/mL)			
	Count	# +ve	% +ve	# +ve	% +ve	Count	Mean	Min	Max
January									
FIELD DISTRIBUTION	132	0	0.0	0	0.0	56	0.41	0.10	1.06
FIELD DISTRIBUTION - PLPH	56	0	0.0	0	0.0				
FIELD RESERVOIR	65	0	0.0	0	0.0	65	0.49	0.12	1.08
FIELD RESERVOIR - PLPH (duplicate-not counted)	65	0	0.0	0	0.0				
Monthly	253	0	0.0	0	0.0	121	0.45	0.10	1.08
February									
FIELD DISTRIBUTION	150	1	0.7	0	0.0	56	0.92	0.13	1.84
FIELD DISTRIBUTION - PLPH	56	0	0.0	0	0.0				
FIELD RESERVOIR	50	0	0.0	0	0.0	50	0.73	0.10	4.28
FIELD RESERVOIR - PLPH (duplicate-not counted)	50	0	0.0	0	0.0				
Monthly	256	1	0.4	0	0.0	106	0.83	0.10	4.28
Year to Date	509	1	0.2	0	0.0	227	0.65	0.10	4.28

Guidelines for Canadian Drinking Water Quality recommend 195 bacteriological samples for a city the size of Edmonton. Total Coliform and E.coli testing is required in the AEP Approval. At least 95 of the 195 samples must be tested at ProvLab each month according to our Operations Program.

Testing conducted by Laboratory for Provincial Laboratory for Public Health (ProvLAB) are labelled with PLPH.

**2.2.2 Bacteriological Data: Distribution System
February 2023**

		Coliforms, total (PA/100 mL)			E. coli (PA/100 mL)		cATP (pg/mL)			
		Count	# +ve	% +ve	# +ve	% +ve	Count	Mean	Min	Max
Samples from Complaints										
	January	12	1	8.3	0	0.0	8	0.58	0.14	1.30
	February	8	0	0.0	0	0.0	8	0.81	0.10	1.93
	Year to Date	20	1	5.0	0	0.0	16	0.69	0.10	1.93
Samples from Depressurizations										
	January	54	0	0.0	0	0.0				
	February	49	1	2.0	0	0.0				
	Year to Date	103	1	1.0	0	0.0				