

Reporting Period:	October 1, 2011 - September 30, 2012
Water Scheme Name:	Lowood
System Location:	Somerset Regional Council, Lockyer Valley Regional Council (Lowood, Fernvale, Tarampa, Minden, Plainlands, Gatton, Forest Hill, Laidley, Glenore Grove, Grantham, Helidon, Withcott)

Microbiology

Escherichia Coli	Unit of Measure	LOR	Number of Tests	12 Monthly Rolling Compliance	Minimum	Maximum	Average
October	cfu/100mL	1	68	99.07	<LOR	<LOR	<LOR
November	cfu/100mL	1	70	99.09	<LOR	<LOR	<LOR
December	cfu/100mL	1	51	99.06	<LOR	<LOR	<LOR
January	cfu/100mL	1	70	99.09	<LOR	<LOR	<LOR
February	cfu/100mL	1	56	99.25	<LOR	<LOR	<LOR
March	cfu/100mL	1	63	99.14	<LOR	130	3
April	cfu/100mL	1	56	99.12	<LOR	<LOR	<LOR
May	cfu/100mL	1	70	99.88	<LOR	<LOR	<LOR
June	cfu/100mL	1	55	99.87	<LOR	<LOR	<LOR
July	cfu/100mL	1	68	99.88	<LOR	<LOR	<LOR
August	cfu/100mL	1	70	99.88	<LOR	<LOR	<LOR
September	cfu/100mL	1	42	99.87	<LOR	<LOR	<LOR

LOR = Limit of reporting

Chemistry (General)

General	Unit of Measure	LOR	Number of Tests	Health Limit	Aesthetic Limit	Minimum	Maximum	Average	95th Percentile
Alkalinity	mg/L	1	37			69	120	85	112
Ammonia (Total, as N)	mg/L	0.05	39		0.5	<LOR	0.13	<LOR	0.07
Colour (Apparent)	PCU	5	13			<LOR	22	5	20
Colour (True)	PCU	5	46		15	<LOR	21	<LOR	<LOR
Conductivity	uS/cm	1	628		950	310	830	490	650
Langelier Index			24			<LOR	<LOR	<LOR	-0.13
Silica	mg/L	0.1	24			14	17	15	16
Temperature	deg C	0.1	618			11	31	22	28
Total Dissolved Salts	mg/L	1	46			170	570	306	455
Total Hardness	mg/L	7	37		200	120	260	151	204
Total Organic Carbon	mg/L	0.1	24			2.1	4.4	2.7	3.6
Turbidity	NTU	0.1	46		5	0.11	1.4	0.32	0.83
pH	pH Unit	0.1	628		6.5-8.5	<LOR	8.4	7.4	8.2

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Chemistry (Cations)

Cations	Unit of Measure	LOR	Number of Tests	Health Limit	Aesthetic Limit	Minimum	Maximum	Average	95th Percentile
Calcium	mg/L	0.02	24			28	45	33	39
Magnesium	mg/L	0.02	24			13	36	17	29
Potassium	mg/L	0.05	24			2.6	3.6	3.0	3.4
Sodium	mg/L	0.05	24		180	30	81	41	71

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Chemistry (Anions)

Anions	Unit of Measure	LOR	Number of Tests	Health Limit	Aesthetic Limit	Minimum	Maximum	Average	95th Percentile
Bromide	mg/L	0.01	24			<LOR	0.13	0.04	0.08
Chloride	mg/L	0.1	37		250	56	150	76	132
Chlorine (Free)	mg/L	0.1	741	5		<LOR	3.4	0.6	1.6
Chlorine (Combined)	mg/L	0.1	742			<LOR	1.4	0.3	0.75
Chlorine (Total)	mg/L	0.1	741			<LOR	3.6	1.0	2
Fluoride (as F)	mg/L	0.05	46	1.5		0.55	1	0.80	0.97
Nitrate (as N)	mg/L	0.1	37	50		<LOR	0.62	0.3	0.58
Nitrite (as N)	mg/L	0.1	37	3		<LOR	<LOR	<LOR	<LOR
Nitrite and Nitrate(as N)	mg/L	0.001	24			0.13	0.62	0.27	0.57
Sulfate (as SO ₄)	mg/L	0.1	24	500		33	59	42	56

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Chemistry (Taste and Odour)

Taste and Odour	Unit of Measure	LOR	Number of Tests	Health Limit	Aesthetic Limit	Minimum	Maximum	Average	95th Percentile
Geosmin	ng/L	2	12		5	<LOR	6	3	5
2-Methylisoborneol	ng/L	2	12		5	<LOR	7	3	7

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Chemistry (Metals)

Metals	Unit of Measure	LOR	Number of Tests	Health Limit	Aesthetic Limit	Minimum	Maximum	Average	95th Percentile
Aluminium	mg/L	0.001	47		0.2	0.01	0.06	0.03	0.04
Barium	mg/L	0.001	38	2		0.02	0.04	0.03	0.04
Cadmium	mg/L	0.001	36	0.002		<LOR	<LOR	<LOR	<LOR
Chromium	mg/L	0.001	38	0.05		<LOR	0.01	0.002	0.01
Copper	mg/L	0.001	38	2		0.003	0.1	0.01	0.04
Iron	mg/L	0.001	47		0.3	0.004	0.08	0.02	0.04
Lead	mg/L	0.001	38	0.01		<LOR	0.01	0.002	0.01
Manganese	mg/L	0.001	47	0.5	0.1	0.002	0.09	0.01	0.06
Nickel	mg/L	0.001	38	0.02		<LOR	0.01	0.002	0.01
Zinc	mg/L	0.001	38	0	3	0.002	0.08	0.01	0.05

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Chemistry (DBP)

Disinfection By-Products	Unit of Measure	LOR	Number of Tests	Health Limit	Aesthetic Limit	Minimum	Maximum	Average	95th Percentile
Bromodichloromethane	ug/L	2	12			30	38	35	38
Bromoform	ug/L	2	12			4	10	6	9
Chlorodibromomethane	ug/L	2	12			26	41	33	41
Chloroform	ug/L	2	12			14	50	31	48
Trihalomethanes (Total)	ug/L	0	25	250		91	160	119	158
Bromochloroacetic Acid	ug/L	10	12			<LOR	27	18	26
Dibromoacetic Acid	ug/L	10	12			<LOR	17	12	17
Dichloroacetic Acid	ug/L	10	12	100		15	40	25	36
Monobromoacetic Acid	ug/L	10	12			<LOR	<LOR	<LOR	<LOR
Monochloroacetic Acid	ug/L	10	12	150		<LOR	<LOR	<LOR	<LOR
Trichloroacetic Acid	ug/L	10	12	100		<LOR	35	16	27
Haloacetic Acids (Total)	ug/L	60	12			<LOR	100	65	98
Chlorate	mg/L	0.01	12	0.7		<LOR	0.95	0.15	0.62

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Microbiology (Other)

Microbiology	Unit of Measure	LOR	Number of Tests	Health Limit	Aesthetic Limit	Minimum	Maximum	Average	95th Percentile
Faecal Coliforms	cfu/100mL	1	128			<LOR	<LOR	<LOR	<LOR
Heterotrophic Plate Count	cfu/mL	1	736			<LOR	3800	13	35

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