

**FORAGE LABORATORY**

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Livestock Water Analysis Report

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Lab ID: 1005060
Sampled: 8/01/03
Received: 8/01/03
Completed: 8/02/03
Type/Description: Outside Well

Components	Result	Expected*	Possible problems for mature cattle. **
pH	7.5	6.8 – 7.5	< 5.5 or > 8.5
Total Coliform / 100 ml	< 1	< 1	15
e.coli	–		
Nitrates, ppm	1	0 – 44	100
Nitrates – Nitrogen, ppm	< 1	0 – 10	23
Sulfates, ppm	55	0 – 250	1000
Sulfate – Sulfur, ppm	18	0 – 83	333
Chlorides, ppm	54	0 – 250	300
Hardness, ppm CaCO ₃	344	0 – 370	
Total Dissolved Solids (TDS), ppm	455	0 – 500	3000
Calcium (Ca), ppm	77	0 – 100	500
Phosphorus (P), ppm	< 0.1	0 – 0.3	0.7
Magnesium (Mg), ppm	37	0 – 29	125
Potassium (K), ppm	7	0 – 20	20
Sodium (Na), ppm	13	0 – 100	300
Iron (Fe), ppm	.33	0 – 0.3	0.3 (taste)
Zinc (Zn), ppm	0	0 – 5	25
Copper (Cu), ppm	.00	0 – 0.6	0.6
Manganese (Mn), ppm	.02	0 – 0.05	0.05 (taste)
Molybdenum (Mo), ppm	.01	0 – 0.07	.07

* Based primarily on criteria for water fit for human consumption.

** Based primarily on research literature and field experiences.

Source: Dairy Reference Manual, 3rd ed., NRAES-63, June 1995.