

**Testing ID**

Sequoia Soil

**Date**

02/24/23

**Sample**

Ligna

**Total Soil Volume**

**Amendment Recommendations**

Incorporate the following globally into soil media

Amendment	App Rate
N/A	lbs/yd
Ag Pellets	lbs/yd
Worm Castings	%/yd
Compost	%/yd
Soil Activation Package	<input type="checkbox"/> 10 gal/yd

**Notes**

**Complex Nutrition**

Insoluble nutrients with the potential to become soluble

Element	PPM	Rating	Optimal Range
Calcium (Ca)	4243	Optimal	2000-7000
Iron (Fe)	377	Optimal	250-400
Magnesium (Mg)	682	Optimal	400-1400
Manganese (Mn)	28	Low	50-125
Phosphorous (P)	114	Low	400-800
Potassium (K)	2131	Optimal	2000-4000
Sodium (Na)	225	Optimal	100-500
Sulfur (S)	356	Low	2000-8000
Zinc (Zn)	26	Low	100-250

**Soluble Nutrition**

Soluble nutrients readily available to the plant

Ion	Element	PPM	millieq/l
Cations	Ammonium (N)	1	0.0
	Calcium (Ca)	45	2.3
	Magnesium (Mg)	19	1.5
	Potassium (K)	145	3.7
	Sodium (Na)	21	0.9
	<b>Cation Total</b>		

Ca/Mg Ratio	PPM/meq	Rating	Optimal Range
Insoluble PPM	6.2 : 1	Optimal	>5 : 1
Soluble PPM	2.4 : 1	Low	>4 : 1
Soluble millieq/l	1.5 : 1	Low	>2 : 1

Ion	Element	PPM	millieq/l
Anions	Chloride (Cl)	42	1.2
	Nitrate (N)	2	0.1
	Phosphorus (P)	4	0.1
	Sulfate (S)	80	5.0
<b>Anion Total</b>			<b>6.5</b>

ECe	pH
Measure of media salinity	Potential Hydrogen
0.87	5.99

**Heavy Metals**

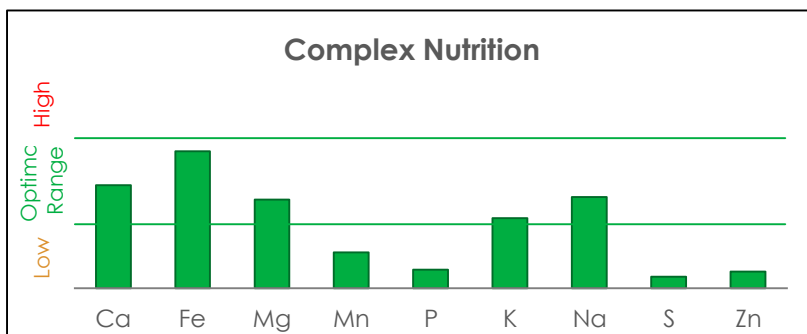
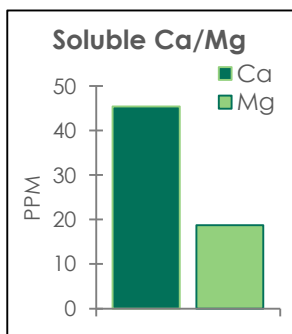
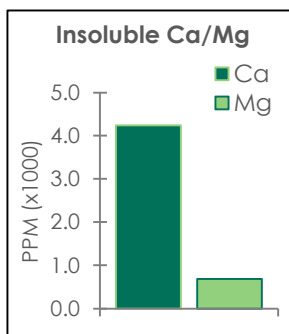
Trace elements that may be toxic

Element	PPM	Rating	Optimal Range
Arsenic	ND	Optimal	<2.5
Cadmium	ND	Optimal	<2.5
Lead	1.70	Optimal	<15
Mercury	ND	Optimal	<2.5

**Media Quality**

Reflects overall quality of soil media

Organic Matter	good
Moisture Content of Media	128%
Half Saturation Percentage	188%



ND = non-detect