

ammonium bicarbonate/DTPA	*** high, ***** very high
extractable - mg/kg soil	Sample ID Number 20-58-06
Interpretation of data	Sample Description Sequoia Complete
low medium high	elements
0 - 12 16 - 28 32 - 44	phosphorus 127.81 ***** graphic
0-240 240-500 500-700	potassium 1,042.51 *****
0- 12 12- 20 over 20	iron 70.82 *****
0 - 2 3 - 4 over 5	manganese 6.94 *****
0 - 4 4 - 6 over 6	zinc 13.14 *****
0- 0.5 0.6 - 1 over 1	copper 2.67 *****
0 - 1 1 - 2 over 2	boron 2.42 *****
	calcium 2,318.31 *****
	magnesium 418.69 *****
	sodium 194.41 *
	sulfur 338.67 **
	molybdenum 0.08 ***
	nickel 0.44 *
	aluminum 2.77 ***
	arsenic n d *
	barium 5.01 *
	cadmium n d *
	chromium n d *
	cobalt 0.05 *
	lead 0.82 *
	lithium 0.93 *
	mercury n d *
	selenium n d *
	silver n d *
	strontium 7.81 *
	tin n d *
	vanadium 0.51 *
The following trace elements may be toxic	
The degree of toxicity depends upon the pH of the soil, soil texture, organic matter, and the concentrations of the individual elements as well as to their interactions.	
The pH optimum depends upon soil organic matter and soil content- under 5 may be too acidic 6 to 7 may be good over 8.0 is too alkaline	
The ECe is a measure of the media salinity:	
good at 200 ppm	Saturation Extract
good at 25 ppm	pH value 6.20 ***
	ECe (milli-mho/cm) 2.28 *****
	millieq/l
good at 25 ppm	calcium 206.4 10.3
good at 150 ppm	magnesium 73.4 6.1
	sodium 58.5 2.5
	ammonium as N 1.3 0.1
	potassium 180.6 4.6
	cation sum 23.6
problems over 150 ppm	chloride 70 2.0
good at 100 ppm	nitrate as N 179.6 12.8
good at 40 ppm	phosphorus as P 8.8 0.3
toxic over 800	sulfate as S 177.1 11.1
	anion sum 26.2
toxic over 1 for many plants	boron as B 0.77 ***
increasing problems start at 3	SAR 0.9 *
est. gypsum requirement-lbs./cubic yard	4
	relative infiltrate rate good
	lime (calcium carbonate) no
	organic matter good
	moisture content of media 83.5%
	half saturation percentage 114.7%

Compiled by a professional laboratory for Soilscape Solutions, LLC
 Elements are expressed as mg/kg dry soil or mg/l for saturation extract.
 pH and ECe are measured in a saturation paste extract. nd means not detected.
 Analytical data determined on soil fraction passing a 2 mm sieve.