



CP MICROBIOLOGY & ANALYTICAL LABS

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REPORT

DATE: 28.02.18

CPMIC REF: 18020001

CLIENT REF:

CLIENT: Russell Calder

Calder Permaculture

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1. Microbiological analyses:

Total count (cfu/ml).....	2,400,000
Actinobacteria (cfu/ml).....	170,000
Filamentous actinomycetes (cfu/ml).....	120,000
Yeasts (cfu/ml)	100
Filamentous fungi (cfu/ml)	300
Total anaerobes (cfu/ml)	110.000

cfu – colony forming units

2. Chemical analyses (EAL LABORATORIES, SCU, Lismore)

			18020001 Worm Juice C. Panter
Nutrient		Units	G7565/1
Nitrogen	N	mg/kg w/w	350
Phosphorus	P	mg/kg w/w	<100
Potassium	K	mg/kg w/w	194
Sulphur	S	mg/kg w/w	569
Calcium	Ca	mg/kg w/w	<100
Magnesium	Mg	mg/kg w/w	<100
Sodium	Na	mg/kg w/w	<100
Copper	Cu	mg/kg w/w	<1
Zinc	Zn	mg/kg w/w	<1
Manganese	Mn	mg/kg w/w	<1
Iron	Fe	mg/kg w/w	<50
Boron	B	mg/kg w/w	<5
Molybdenum	Mo	mg/kg w/w	<0.2
Cobalt	Co	mg/kg w/w	<0.05
Silicon	Si	mg/kg w/w	<50
pH		na	7.4
Electrical Conductivity		dS/m	1.1
Total Dissolved Salts (CALC)		mg/L	777

Laboratory testing notes:

1. All analysis conducted on sample as supplied.
2. Sample digested on a hotblock digester with Nitric acid and Hydrochloric acid then read on the ICP-MS, or ICP-OES for Sulfur.
3. mg/kg = ppm; 1% = 10,000ppm

4. Conversion from w/w to w/v multiply the result by the Specific Gravity.
 5. Total Dissolved Salts is a calculation using E.C x 680
 6. Nitrogen measured using a LECO CNS2000 Analyser
- Quality Checked: Kris Saville Manager, Agricultural testing division

3. Current Tests

1. Gram negative bacterial count
2. *E. coli*
3. *Salmonella*

Christopher Panter