

**COMPOST 'TOTALS' ANALYSIS REPORT**

1 sample supplied by QLD Organics on 27th September, 2013 - Lab Job No. C9095.

Analysis requested by Brad Smith.

				<b>Sample 1</b>	<b>GUIDE</b>
				Windrow 130	<i>Typical</i>
				n/g	<i>Compost</i>
				Qld Organics	<i>Nutrients</i>
	<i>Nutrient</i>		<i>Units</i>	<i>C9095/1</i>	<i>(average)</i>
Macronutrients	Nitrogen	N	%	4.24	2.0
	Phosphorus	P	%	2.69	0.5
	Potassium	K	%	2.63	0.8
	Sulphur	S	%	0.85	<0.5
	Carbon	C	%	35.6	>30
	Calcium	Ca	%	3.86	3.0
	Magnesium	Mg	%	1.01	0.5
	Sodium	Na	%	0.79	<0.2
Micronutrients	Copper	Cu	mg/kg	197	60
	Zinc	Zn	mg/kg	768	180
	Manganese	Mn	mg/kg	696	300
	Iron	Fe	mg/kg	1,590	12,000
	Boron	B	mg/kg	40	40
	Molybdenum	Mo	mg/kg	18.0	1.1
	Cobalt	Co	mg/kg	2	11.2
	Silicon	Si	mg/kg	1,196	1,200
Calculations	Nitrogen : Sulphur Ratio		units	5.0	<4
	Nitrogen : Phosphorus Ratio		units	1.6	4
	Nitrogen : Potassium Ratio		units	1.6	2
	Carbon : Nitrogen Ratio		units	8.4	<15
	Organic Matter		%	26.5	>50
	pH (1:5 water)		na	7.2	5.0 - 7.5
	Electrical Conductivity (1:5 water)		dS/m	13.7	No limit
	Moisture <sup>see note 6</sup>		%	28.4	> 25
	Chloride <sup>see note 7</sup>	Cl	%	0.8	No limit
Heavy Metals	Aluminium	Al	mg/kg	733	<5000
	Selenium	Se	mg/kg	1.6	2
	Cadmium	Cd	mg/kg	<0.5	<10
	Lead	Pb	mg/kg	<1	<100
	Arsenic	As	mg/kg	3	<50
	Chromium	Cr	mg/kg	6	<100
	Nickel	Ni	mg/kg	9	<50
	Mercury	Hg	mg/kg	<0.1	<5
	Silver	Ag	mg/kg	<1	<5
Pathogens	Ecoli		cfu/g	Nil	..
	Salmonella		cfu/g	Nil detected	..
	Listeria		cfu/g	Nil detected	..
	Total Aerobic Count		cfu/g	21,500,000	..

**Notes:**

- All analysis is dry weight - Samples dried at 40°C for 24hours prior to fine grinding
- Samples digested on a hotblock digester using Aqua Regia acid and read on the ICP-MS
- Carbon/ Nitrogen/ Sulfur measured using a LECO CNS2000 Analyser
- mg/Kg = ppm; 1% = 10,000ppm
- By Calculation:- Crude Protein = %N x 6.25
- Moisture based on sample dried at 105°C
- Nitrate/Ammonium/Chloride measured on a water extract.
- Organic Matter is %C x 1.75

