

**AS4454-2012 COMPOSTS, SOIL CONDITIONERS AND MULCHES REPORT**

1 sample supplied by Landtasia Organic Farms on the 11 March, 2016 - Lab Job No. E8648

Analysis requested by Simone Dilkara.

(PO Box 116, BUNGENDORE, NSW, 2621)

Modified sample: Ammonium-N, Nitrate-N (E9127/1)

Product Name: Product Type: Manufacturing Site: Manufactured Date: Quantity Supplied: Test Required: Australian Standard Applicable:				Sample 1 50004 Compost .. 9/03/2016 10 kg CA-PACK-003 AS4454-2012	Composted Product	Mature Compost	Status
Test Method - Appendix	Nutrient	Units	E8648/1				
B6	pH	na	8.4 <sup>see note 3</sup>	>5	>5	Pass	
	Electrical Conductivity	dS/m	4.13	<10	<10	Pass	
	Soluble Phosphorus in solution	P mg/L	21.3	≤5 <sup>see note 5</sup>	≤5 <sup>see note 5</sup>	..	
	Soluble Phosphorus dry mass equivalent	P mg/kg	107	..	..	..	
	Ammonium-N in solution	N mg/L	10	..	..	..	
	Ammonium-N dry mass equivalent	N mg/kg	49	<200	<100	Pass	
I	Moisture Content	%	40	>25 <sup>see note 6</sup>	>25 <sup>see note 6</sup>	Pass	
C6	Total Organic Carbon	%	17	≥20	≥20	Fail	
	Organic Matter	%	29	..	..	..	
	Total Nitrogen	%	1.7	≥0.8 <sup>see note 7</sup>	≥0.8 <sup>see note 7</sup>	..	
	Carbon: Nitrogen Ratio	%	9.9	..	..	..	
D5.1.1	Sodium	Na %	0.20	<1	<1	Pass	
	Calcium	Ca %	2.45	..	..	..	
	Magnesium	Mg %	0.38	..	..	..	
	Potassium	K %	1.22	..	..	..	
	Sulfur	S %	0.32	..	..	..	
	Phosphorus	P %	0.47	≤0.1 <sup>see note 5</sup>	≤0.1 <sup>see note 5</sup>	..	
D5.1.1	Zinc	Zn mg/kg	241	<300	<300	Pass	
	Iron	Fe mg/kg	9,946	..	..	..	
	Manganese	Mn mg/kg	474	..	..	..	
	Copper	Cu mg/kg	63	<150	<150	Pass	
	Boron	B mg/kg	26	<100	<100	Pass	
	Molybdenum	Mo mg/kg	4.1	..	..	..	
	Selenium	Se mg/kg	2.1	<5	<5	Pass	
	Cadmium	Cd mg/kg	<0.5	<1	<1	Pass	
	Lead	Pb mg/kg	90	<150	<150	Pass	
	Arsenic	As mg/kg	11	<20	<20	Pass	
	Chromium	Cr mg/kg	16	<100	<100	Pass	
	Nickel	Ni mg/kg	9.7	<60	<60	Pass	
	Mercury	Hg mg/kg	<0.1	<1	<1	Pass	
3.1(C)	Polychlorinated Biphenyls	mg/kg	<0.1	<0.2	<0.2	Pass	
	Organochlorines - DDT, DDD, DDE	mg/kg	<0.02	<0.5	<0.5	Pass	
	Organochlorines - Other <sup>see note 9</sup>	mg/kg	<0.02	<0.02	<0.02	Pass	
	Salmonella	number/50 g	Absent	Absent	Absent	Pass	
	E coli	cfu/gm	Nil	<100	<100	Pass	
	Faecal Coliforms	mpn/g	Nil	<1,000	<1,000	Pass	
G	Particle Size Grading - >16mm Sieve	%	3.5	.. <sup>see note 10</sup>	.. <sup>see note 10</sup>	..	
	Particle Size Grading - >5mm<16mm Sieve	%	24.7	.. <sup>see note 10</sup>	.. <sup>see note 10</sup>	..	
	Particle Size Grading - <5mm Sieve	%	71.8	.. <sup>see note 10</sup>	.. <sup>see note 10</sup>	..	
I	Plastics Light Flexible or film >5mm	%	0.02	≤0.05	≤0.05	Pass	
	Stones and Lumps of Clay >5mm	%	4.1	≤5	≤5	Pass	
	Glass, metal and rigid plastics > 2mm	%	0.2	≤0.5	≤0.5	Pass	
E	Wettability	minutes	1m 17s	<5	<5	Pass	
H	Calcium Carbonate	%	5	..	..	..	
B6	Nitrate-N in solution	N mg/L	155	..	..	..	
B6	Nitrate-N dry mass equivalent	mg/kg	777	≥10 <sup>see note 7</sup>	≥10 <sup>see note 7</sup>	Pass	
N3.2	Ammonium:Nitrate Ratio	Ratio	0.1	<3.0	<0.5	Pass	
TMECC	Plant Growth Test (Bioassay) - Germination	%	..	.. <sup>See note 11</sup>	.. <sup>See note 11</sup>	..	
TMECC	Plant Growth Test (Bioassay) - Root Elongation	%	..	.. <sup>See note 11</sup>	.. <sup>See note 11</sup>	..	
O	Nitrogen Drawdown Index	NDI	..	>0.2	>0.5	..	
	Oxygen Consumption Rate	mgO2/Kg/min	..	..	..	..	
	Specific Oxygen Uptake Rate	mgO2/gVVS/hour	..	<3	≤1	..	
M	Viable plant Propagules	21 days	Nil	.. <sup>see note 14</sup>	.. <sup>see note 14</sup>	Pass	

**Remarks:** All testing was done according to AS4454-2012 and all completed tests have passed.**Notes:**

- All analysis is tested according to AS4454-2012
- mg/Kg = ppm; 1% = 10,000ppm
- Calcium Carbonate required if pH > 8.0
- ".." denotes no requirement
- Guide only to be used if a product claims to be used for phosphorus sensitive plants. < 1 if applied to sandy soils
- If OM > 40% maximum moisture = %OM + 6; If OM < 40% maximum moisture = %OM + 10
- Guide only to be used if a product claims to contribute to plant nutrition
- Organic Matter is Organic Carbon x 1.7
- Other Organochlorines include: Aldrin, Dieldrin, Chlordane, Heptachlor, HCB, Lindane, BHC
- Coarse Mulch > 70% >16mm, Fine Mulch <20% >16mm and <20% <5mm, Soil Conditioner <20% >16mm
- Analysis completed according to TMECC 05.05-B; Composted product pass >80%, Mature compost pass > 90%
- N/A reported for additional analyses not required under the standard
- PCBs (BIOMASS): Reporting limit has been raised due to interference from analytes (other than those being tested) in the sample
- This test observes the potential growth of viable plant propagules in a 21 day test period. In order to pass there should be Nil after 21 days