

AS4454-2012 COMPOSTS, SOIL CONDITIONERS AND MULCHES REPORT

1 sample supplied by Landtasia Organic Farms on 21 August, 2015 - Lab Job No. E3907

Analysis requested by Simone Dilkara.

(PO Box 116, BUNGENDORE, NSW, 2621)

Product Name: Product Code: Manufacturing Site: Manufactured Date: Quantity Supplied: Test Required: Australian Standard Applicable:			Sample 1 50003 19/08/2015 5 CA-PACK-003 AS4454-2012	Composted Product	Mature Compost	Status
Test Method - Appendix	Nutrient	Units	E3907/1			
B6	pH	na	7.2	>5	>5	Pass
	Electrical Conductivity	dS/m	4.99	<10	<10	Pass
	Soluble Phosphorus in solution	P mg/L	14.4	≤5 ^{see note 5}	≤5 ^{see note 5}	..
	Soluble Phosphorus dry mass equivalent	P mg/kg	72	..	..	..
	Ammonium-N in solution	N mg/L	1.1	..	..	..
	Ammonium-N dry mass equivalent	N mg/kg	5.7	<200	<100	..
I	Moisture Content	%	40	>25 ^{see note 6}	>25 ^{see note 6}	Pass
C6	Total Organic Carbon	%	15	≥20	≥20	Fail
	Organic Matter	%	25	..	..	..
	Total Nitrogen	%	1.5	≥0.8 ^{see note 7}	≥0.8 ^{see note 7}	Pass
	Carbon: Nitrogen Ratio	%	9.4	..	..	..
D5.1.1	Sodium	Na %	0.15	<1	<1	Pass
	Calcium	Ca %	1.84	..	..	..
	Magnesium	Mg %	0.36	..	..	..
	Potassium	K %	1.25	..	..	..
	Sulfur	S %	0.07	..	..	..
	Phosphorus	P %	0.33	≤0.1 ^{see note 5}	≤0.1 ^{see note 5}	..
D5.1.1	Zinc	Zn mg/kg	287	<300	<300	Pass
	Iron	Fe mg/kg	10,154	..	..	..
	Manganese	Mn mg/kg	380	..	..	..
	Copper	Cu mg/kg	52	<150	<150	Pass
	Boron	B mg/kg	18	<100	<100	Pass
	Molybdenum	Mo mg/kg	3.4	..	..	..
	Selenium	Se mg/kg	1.9	<5	<5	Pass
	Cadmium	Cd mg/kg	<0.5	<1	<1	Pass
	Lead	Pb mg/kg	68	<150	<150	Pass
	Arsenic	As mg/kg	5.8	<20	<20	Pass
	Chromium	Cr mg/kg	18	<100	<100	Pass
	Nickel	Ni mg/kg	8.3	<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 ^{see note 9}	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	%	Nil	.. ^{see note 10}	.. ^{see note 10}	..
	Particle Size Grading - >5mm<16mm Sieve	%	9.5	.. ^{see note 10}	.. ^{see note 10}	..
	Particle Size Grading - <5mm Sieve	%	90.5	.. ^{see note 10}	.. ^{see note 10}	..
I	Plastics Light Flexible or film >5mm	%	0.01	≤0.05	≤0.05	Pass
	Stones and Lumps of Clay >5mm	%	3.0	≤5	≤5	Pass
	Glass, metal and rigid plastics >2mm	%	<0.1	≤0.5	≤0.5	Pass
E	Wettability	minutes	4m 8s	<5	<5	Pass
H	Calcium Carbonate	%	..	..	..	..
B6	Nitrate-N in solution	N mg/L	192	..	..	..
B6	Nitrate-N dry mass equivalent	mg/kg	958	≥10 ^{see note 7}	≥10 ^{see note 7}	..
N3.2	Ammonium:Nitrate Ratio	Ratio	0.01	<3.0	<0.5	..
TMECC	Plant Growth Test (Bioassay) - Germination	%	..	.. ^{See note 11}	.. ^{See note 11}	.. ^{See note 11}
TMECC	Plant Growth Test (Bioassay) - Root Elongation	%	..	.. ^{See note 11}	.. ^{See note 11}	.. ^{See note 11}
O	Nitrogen Drawdown Index	NDI	..	>0.2	>0.5	..
	Oxygen Consumption Rate	mgO2/Kg/min	..	..	..	..
	Specific Oxygen Uptake Rate	mgO2/gVVS/hour	..	<3	≤1	≤1

Remarks: All testing was done according to AS4454-2012 and all completed tests have passed except for total organic carbon.**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

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			Sample 1
			50003
			Compost
			Landtasia
Test Method - Appendix	Nutrient	Units	E3907/1
M	Viable plant Propagules	7 days	Nil
M	Viable plant Propagules	14 days	Nil
M	Viable plant Propagules	21 days	Nil

Notes:

1. All analysis is tested according to AS4454-2012
2. 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