

### AS4454:2012 COMPOSTS, SOIL CONDITIONERS AND MULCHES REPORT

1 sample supplied by Landtasia Organic Farms on the 10 December, 2020 - Lab Job No. K1583.

Analysis requested by Simone Dilkara. Retest results completed for faecal coliforms on the 13 January, 2021.

PO Box 116 BUNGENDORE NSW 2621

		Product Name: 50022	Sample 1 50022	Guideline
		Product Type: Compost	Compost	
		Manufacturing Site: Landtasia Organic Farms	Landtasia Organic Farms	AS4454:2012
		Manufactured Date: 7/12/2020	7/12/2020	Composted
		Test Code: CA-PACK-003	CA-PACK-003	Product
		Standard Applicable: AS4454:2012	AS4454:2012	
Parameter	Method Reference	K1583/1		
Bulk Density (kg/L)	AS4454:2012 Appendix J	0.3		..
Moisture Content (%)	AS4454:2012 Appendix I	51		> 25
pH		8.08		> 5
Electrical Conductivity (dS/m)	AS4454:2012 Appendix B	1.88		< 10
Total Organic Carbon (%)		24.8		≥ 20
Total Carbon (%)	AS4454:2012 Appendix C	28.1		..
Total Nitrogen (%)		1.15		≥ 0.8 <i>see note 7</i>
Carbon/Nitrogen Ratio	Calculation - Total Organic Carbon/Total Nitrogen	21.6		..
Estimated Organic Matter (% OM)	Calculation - Total Organic Carbon x 1.7	42.2		..
Ammonium Nitrogen (mg/L N)		44.4		< 200
Ammonium Nitrogen (mg/kg N)		222.0		..
Nitrate Nitrogen (mg/L N)		7.2		..
Nitrate Nitrogen (mg/kg N)	AS4454:2012 Appendix B	36.2		≥ 10 <i>see note 7</i>
Phosphate Phosphorus (mg/L P)		27.2		≤ 5 <i>see note 7</i>
Phosphate Phosphorus (mg/kg P)		135.9		..
Ammonium/Nitrate Ratio	Calculation - Ammonium/Nitrate	6.1		< 3.0
Nitrogen Drawdown Index (NDI <sub>150</sub> )	AS4454:2012 Appendix O	0.03		> 0.2
Total Calcium (%)		1.78		..
Total Magnesium (%)		0.33		..
Total Potassium (%)	AS4454:2012 Appendix D	0.73		..
Total Sodium (%)		0.07		< 1 Na
Total Sulphur (%)		0.16		..
Total Phosphorus (%)	AS4454:2012 Appendix D	0.25		≤ 0.1 P <i>see note 10</i>
Total Zinc (mg/kg)		132		< 300 Zn
Total Manganese (mg/kg)		370		..
Total Iron (mg/kg)		9,863		..
Total Copper (mg/kg)	AS4454:2012 Appendix D	29.1		< 150 Cu
Total Boron (mg/kg)		19.3		< 100 B
Total Silicon (mg/kg)		1,297		..
Total Aluminium (mg/kg)		5,464		..
Total Molybdenum (mg/kg)		1.99		..
Total Cobalt (mg/kg)	AS4454:2012 Appendix D	4.00		..
Total Selenium (mg/kg)		1.24		< 5 Se
Total Cadmium (mg/kg)		<0.5		< 1 Cd
Total Lead (mg/kg)		14.1		< 150 Pb
Total Arsenic (mg/kg)		4.0		< 20 As
Total Chromium (mg/kg)	AS4454:2012 Appendix D	15.2		< 100 Cr
Total Nickel (mg/kg)		7.4		< 60 Ni
Total Mercury (mg/kg)		<0.1		< 1 Hg
Total Silver (mg/kg)		<1		..

## AS4454:2012 COMPOSTS, SOIL CONDITIONERS AND MULCHES REPORT

1 sample supplied by Landtasia Organic Farms on the 10 December, 2020 - Lab Job No. K1583.

Analysis requested by Simone Dilkara. Retest results completed for faecal coliforms on the 13 January, 2021.

PO Box 116 BUNGENDORE NSW 2621

Product Name: Product Type: Manufacturing Site: Manufactured Date: Test Code: Standard Applicable:		Sample 1 50022 Compost Landtasia Organic Farms 7/12/2020 CA-PACK-003 AS4454:2012	Guideline  AS4454:2012 Composted Product
Parameter	Method Reference	K1583/1	
Polychlorinated Biphenyls (mg/kg)		Not Detected	< 0.2
Organochlorine Pesticides - DDT, DDD, DDE (mg/kg)	Sub** - SGS Laboratories SE214961	Not Detected	< 0.5
Organochlorine Pesticides - Other (mg/kg) <sup>see note 9</sup>		Not Detected	< 0.02
Salmonella spp (Absent in 25 g)	Sub** - Symbio Laboratories B978997	Not Detected	Absent in 25 g
E. coli (MPN/g DW)		Not Detected	< 100 MPN/g
Faecal Coliforms (MPN/g DW)	Sub** - Symbio Laboratories B986761	Not Detected	< 1000 MPN/g
Particle Size Grading > 16 mm Sieve (%)		Nil	.. see note 5
Particle Size Grading 5-16 mm Sieve (%)	AS4454:2012 Appendix G	8.5	.. see note 5
Particle Size Grading < 5 mm Sieve (%)		91.5	.. see note 5
Plastics Light Flexible or film > 5 mm (%)		<0.01	≤ 0.05
Stones and Lumps of Clay > 5 mm (%)	AS4454:2012 Appendix I	4.32	≤ 5
Glass, metal and rigid plastics > 2 mm (%)		<0.01	≤ 0.5
Wettability (min)	AS4454:2012 Appendix E	3m 34s	< 5
Total CaCO <sub>3</sub> Equivalent (%)	AS4454:2012 Appendix H	3.12	..
Plant Growth Test - Root Elongation (mm)	AS4454:2012 Appendix F	67	> 60
Viable Plant Propagules (7 days)	AS4454:2012 Appendix M	Nil	..
Viable Plant Propagules (21 days)	AS4454:2012 Appendix M	N/A	Nil after 21 days

### Notes:

- Methods from AS4454:2012 *Composts, soil conditioners and mulches*.
- Indicative guidelines are based on those in AS4454:2012 for raw mulches, pasteurized product, composted product, mature composts.
- Total Acid Extractable Nutrients indicate a store of nutrients.
- Conversions for 1 mg/kg = 1 ppm; 1% = 10,000 ppm; kg/ha = mg/kg x 2.24.
- Coarse Mulch > 70% >16mm, Fine Mulch <20% >16mm and <20% <5mm, Soil Conditioner <20% >16mm.
- The chloride calculation of Cl mg/L = EC x 640 is considered an estimate, and most likely an over-estimate.
- Guide only to be used if a product claims to contribute to plant nutrition.
- The full 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
- Other Organochlorines include: Aldrin, Dieldrin, Chlordane, Heptachlor, HCB, Lindane, BHC Other Organophosphorus include: Guthion, Bromophos-ethyl, Chlorpyrifos, Chlorpyrifos-methyl, Diazinon, Dichlorvos, Dimethoate, Ethion, Fenitrothion, Malathion, Parathion, Ronnel.
- Guide only to be used if a product claims to be used for phosphorus sensitive plants. < 1 if applied to sandy soils
- Testing completed in a NATA accredited laboratory.
- Analysis conducted between sample arrival date and reporting date.
- This report is not to be reproduced except in full. Results only relate to the item tested.
- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal).
- This report was issued on 27/01/2021.

Quality Checked: Brian Smith  
 Compost & Landscape Soils Co-ordinator