

Compost - Certificate of Analysis - E25-00-4810

Client:	Landtasia Organic Farms	Laboratory:	Environmental Analysis Laboratory
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Customer reference:	PO 6-1210	Request ID:	EAL /E25-00-4810
Number of samples:	1	Report ID:	E25-00-4810_EALS1_1
Date samples received:	06 May 2025	Issue date:	26 May 2025

Authorised by:	Brian Smith
Position:	Senior Technical Officer



Comments: EAL is a NATA accredited laboratory (14960), accredited for compliance with ISO/IEC 17025 - Testing.

Certificate of Analysis

Request ID: EAL/E25-00-4810 Report ID: E25-00-4810_EALS1_1 Issue date: 26 May 2025

Client Sample ID:				50041 windrow 5	---
Sample Date:				1 May 2025	---
EAL Sample ID:				E25-00-4810-0001	AS4454:2012 Composted Product
Parameter	Unit	Method Reference	LOR	---	---
Wet Bulk Density	kg/L	** AS4454:2012 Appendix J	---	0.50	---
Dry Bulk Density	kg/L	** AS4454:2012 Appendix J	---	0.22	---
Moisture Content 105°C	%	** AS4454:2012 Appendix I	<0.1	57	>25
pH	---	** AS4454:2012 Appendix B	---	7.82	>5
Electrical Conductivity	dS/m	** AS4454:2012 Appendix B	---	0.97	<10
Total Organic Carbon	%	Inhouse S15b	<0.10	30.4	≥20
Organic Matter	%	Inhouse S15b	---	51.7	---
TOC/TN	---	Inhouse S15b	---	25.0	---
Total Carbon	%	Inhouse S4a	<0.02	30.4	≥20
Total Nitrogen	%	Inhouse S4a	<0.02	1.22	≥0.8 See Notes
Ammonium Nitrogen	mg/L N	** AS4454:2012 Appendix B	---	1.37	<200
Ammonium Nitrogen	mg/kg N	** AS4454:2012 Appendix B	<0.5	6.85	---
Nitrate Nitrogen	mg/L N	** AS4454:2012 Appendix B	---	1.17	---
Nitrate Nitrogen	mg/kg N	** AS4454:2012 Appendix B	<0.5	5.85	≥10 See Notes
Ammonium/Nitrate Ratio	Ratio	** AS4454:2012 Appendix B	---	1.17	<3.0
Phosphate Phosphorus	mg/L P	** AS4454:2012 Appendix B	---	10.9	≤5 See Notes
Phosphate Phosphorus	mg/kg P	** AS4454:2012 Appendix B	<0.5	54.6	---
Nitrogen Drawdown Index	---	** AS4454 Appendix O	>1	0.44	>0.2
Sulfur	%	** ICPOES Total S - Compost	<0.01	0.12	---
Calcium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	1.83	---
Magnesium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.33	---
Potassium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.59	---
Sodium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.06	<1
Phosphorus	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.23	≤0.1 See Notes
Zinc	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	129	<300
Manganese	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	392	---
Iron	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	9420	---
Copper	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	25.0	<150
Boron	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<2	18.1	<100
Silicon	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<50	2530	---
Aluminium	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	4700	---
Molybdenum	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.2	1.37	---
Cobalt	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	4.26	---
Selenium	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.5	0.57	<5
Cadmium	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.5	< 0.5	<1
Lead	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	12.9	<150
Arsenic	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	3.61	<20
Chromium	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	18.3	<100
Nickel	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	6.79	<60
Mercury	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.1	< 0.1	<1

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EAL Sample ID:				E25-00-4810-0001	AS4454:2012 Composted Product
Parameter	Unit	Method Reference	LOR	---	---
Silver	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<1	< 1	---
Symbio Report No.	---	** Subcontracted Symbio	---	B1836652	---
Polychlorinated Biphenyls	mg/kg	** Subcontracted Symbio	---	<0.1	<0.2
Symbio Report No.	---	** Subcontracted Symbio	---	B1836652	---
Organochlorine Pesticides- DDT, DDD, DDE	mg/kg	** Subcontracted Symbio	---	<0.02	<0.5
Organochlorine Pesticides - Other	mg/kg	** Subcontracted Symbio	---	<0.02	<0.02
Symbio Report No.	---	** Subcontracted Symbio	---	B1831387-A	---
Salmonella spp.	/25g	** Subcontracted Symbio	<0	ND	Absent in 25 g
Symbio Report No.	---	** Subcontracted Symbio	---	B1831387-A	---
Escherichia coli	MPN/g	** Subcontracted Symbio	---	<3.0	<100 MPN/g
Symbio Report No.	---	** Subcontracted Symbio	---	B1831387-A	---
Faecal Coliforms	MPN/g	** Subcontracted Symbio	---	<3.0	<1000 MPN/g
Particle Size Grading > 16 mm Sieve	%	** AS4454:2012 Appendix G	<0.01	6.87	See Notes
Particle Size Grading 5–16 mm Sieve	%	** AS4454:2012 Appendix G	<0.01	13.1	See Notes
Particle Size Grading < 5 mm Sieve	%	** AS4454:2012 Appendix G	<0.01	80.0	See Notes
Plastics Light Flexible or film > 5 mm	%	** AS4454:2012 Appendix I	<0.01	< 0.01	≤0.05
Stones and Lumps of Clay > 5 mm	%	** AS4454:2012 Appendix I	<0.01	11.03	≤5
Glass, metal and rigid plastics > 2 mm	%	** AS4454:2012 Appendix I	<0.01	< 0.01	≤0.5
Wettability (min)	---	** AS4454:2012 Appendix E	---	0m 24s	<5
Plant Growth Test - Root Elongation	mm	** AS4454:2012 Appendix F	---	74.3	>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:

- Conversions to kg/ha = mg/kg x 2.24.
- The chloride estimate result (Electrical Conductivity x 640) is considered an estimate, and is generally an over-estimate.
- Total Acid Extractable Nutrients indicate a store of nutrients.
- Total Phosphorus guide only to be used if a product claims to be used for phosphorus sensitive plants.
- Nitrate guide only to be used if a product claims to contribute to plant nutrition.
- The full propagule 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
- LOR' means less than limit of reporting. 'ND' means not detected. 'NA' means not applicable. 'NR' means not requested.
- Analysis completed in a NATA accredited laboratory.
- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (available on request or at scu.edu.au/eal).
- 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.
- Indicative guidelines are based on those in AS4454:2012 for raw mulches, pasteurized product, composted product, mature composts.
- Methods from AS4454:2012 Composts, soil conditioners and mulches.

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Notes:

- Conversions for 1 mg/kg = 1 ppm 1 % = 10,000 ppm.
- Coarse Mulch: > 70% of sample is > 16 mm. Fine Mulch: 20% of sample is > 16 mm and 20% is 5 mm. Soil Conditioner: 20% of sample is > 16 mm.