Compost - Certificate of Analysis - E25-01-2772

Client:	Green Food Australia Pty Limited	Laboratory:	Environmental Analysis Laboratory
Contact:	Jess Uhlig	Contact:	EAL Customer Service Team
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Customer reference:	Tully Humisoil Batch One	Request ID:	EAL /E25-01-2772
Number of samples:	1	Report ID:	E25-01-2772_EALS1_1
Date samples received:	18 November 2025	Issue date:	12 December 2025

Authorised by:	Kris Saville
Position:	Technical Team Leader

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

Received on 14/11/2025

Interim report 10/12 - waiting on propagules.

Certificate of Analysis

Request ID: EAL/E25-01-2772 Report ID: E25-01-2772_EALS1_1 Issue date: 12 December 2025

				Client Sample ID:	Tully Humisoil	---
				Sample Date:	10 November 2025	---
				Your Client:	Mackay Farms	---
				EAL Sample ID:	E25-01-2772-0001	AS4454:2012 Mature Compost
Parameter	**Unit**	**Method Reference**	**LOR**	**---**	**---**	
Wet Bulk Density	kg/L	** AS4454:2012 Appendix J	---	0.60	---	
Dry Bulk Density	kg/L	** AS4454:2012 Appendix J	---	0.27	---	
Moisture Content 105°C	%	** AS4454:2012 Appendix I	<0.1	55	>25	
pH	---	** AS4454:2012 Appendix B	---	6.90	>5	
Electrical Conductivity	dS/m	** AS4454:2012 Appendix B	---	1.17	<10	
Total Organic Carbon	%	Inhouse S15b	<0.10	17.6	≥20	
Organic Matter	%	Inhouse S15b	---	30.0	---	
TOC/TN	---	Inhouse S15b	---	25.6	---	
Total Carbon	%	Inhouse S4a	<0.03	17.6	---	
Total Nitrogen	%	Inhouse S4a	<0.02	0.69	≥0.8 See Notes	
Ammonium Nitrogen	mg/L N	** AS4454:2012 Appendix B	---	42.6	<100	
Ammonium Nitrogen	mg/kg N	** AS4454:2012 Appendix B	<0.5	213	---	
Nitrate Nitrogen	mg/L N	** AS4454:2012 Appendix B	---	198	---	
Nitrate Nitrogen	mg/kg N	** AS4454:2012 Appendix B	<0.5	990	≥10 See Notes	
Ammonium/Nitrate Ratio	Ratio	** AS4454:2012 Appendix B	---	0.215	<0.5	
Phosphate Phosphorus	mg/L P	** AS4454:2012 Appendix B	---	33.2	≤5 See Notes	
Phosphate Phosphorus	mg/kg P	** AS4454:2012 Appendix B	<0.5	166	---	
Nitrogen Drawdown Index	---	** AS4454:2012 Appendix O	>1.0	> 1.0	>0.5	
Sulfur	%	** ICPOES Total S - Compost	<0.01	0.07	---	
Calcium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.56	---	
Magnesium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.23	---	
Potassium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.65	---	
Sodium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.05	---	
Phosphorus	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.28	---	
Zinc	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<1	90.5	<300	
Manganese	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<1	508	---	
Iron	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<50	8550	---	
Copper	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<1	24.4	<150	
Boron	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<2	8.92	<100	
Silicon	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<50	2900	---	
Aluminium	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<50	14800	---	
Molybdenum	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.2	2.48	---	
Cobalt	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<1	2.55	---	
Selenium	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.5	0.56	<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	<1	10.9	<150	
Arsenic	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<2	< 2	<20	
Chromium	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<2	21.3	<100	
Nickel	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<1	3.62	<60	
Mercury	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.1	< 0.1	<1	

Certificate of Analysis

Request ID: EAL/E25-01-2772 Report ID: E25-01-2772_EALS1_1 Issue date: 12 December 2025

				Client Sample ID:	Tully Humisoil	---
				Sample Date:	10 November 2025	---
				Your Client:	Mackay Farms	---
				EAL Sample ID:	E25-01-2772-0001	AS4454:2012 Mature Compost
Parameter	**Unit**	**Method Reference**	**LOR**	**---**	**---**
Silver	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<1	< 1	---
Particle Size Grading > 16 mm Sieve	%	** AS4454:2012 Appendix G	<0.01	3.50	See Notes
Particle Size Grading 5–16 mm Sieve	%	** AS4454:2012 Appendix G	<0.01	12.0	See Notes
Particle Size Grading < 5 mm Sieve	%	** AS4454:2012 Appendix G	<0.01	84.5	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	< 0.01	≤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 18s	<5
Plant Growth Test - Germination	%	** TMECC 05.05-B	---	100	>90
Plant Growth Test - Root Elongation	%	** TMECC 05.05-B	---	100	>90
Oxygen Consumption Rate	mgO2/kg/min	** AS4454:2012 Appendix M	---	0.29	---
Specific Oxygen Uptake Rate	mgO2/gVSS/hour	** AS4454:2012 Appendix M	---	0.18	≤1
Solvita NH3	---	** AS4454:2012 Appendix N	---	5	---
Solvita CO2 High	---	** AS4454:2012 Appendix N	---	7	---
Solvita Maturity Index	---	** AS4454:2012 Appendix N	---	7	7-8
Viable Plant Propagules (7 days)	---	** AS4454:2012 Appendix M	---	Nil	---
Viable Plant Propagules (21 days)	---	** AS4454:2012 Appendix M	---	Nil	Nil after 21 days

Notes:

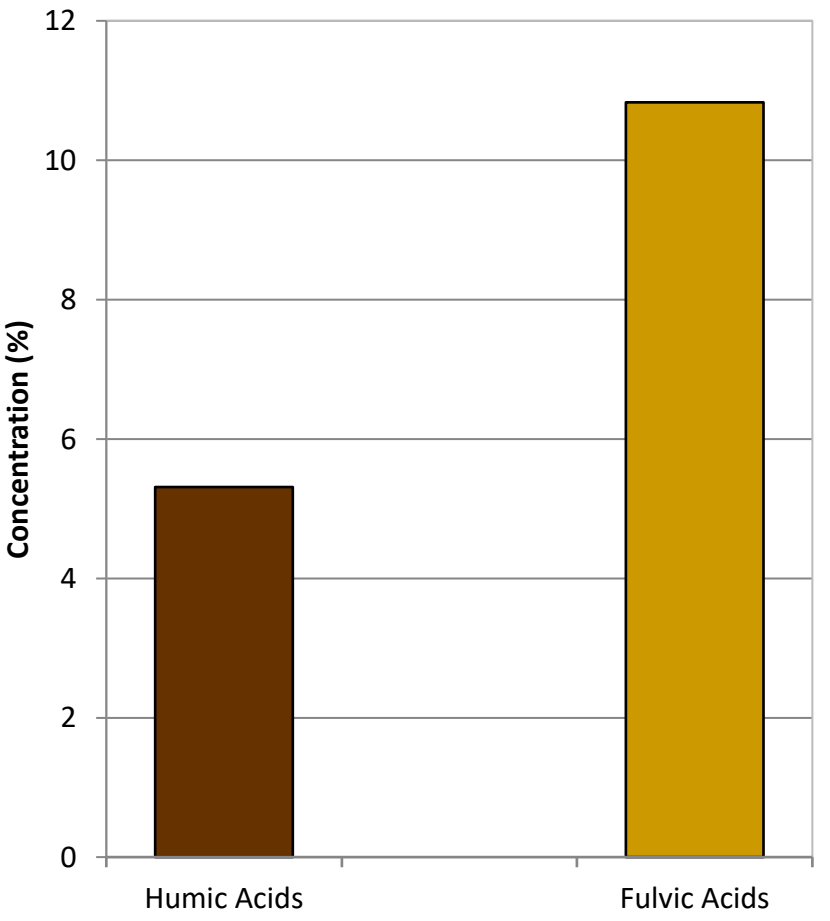
- The chloride estimate result (Electrical Conductivity x 640) is considered an estimate, and is generally an over-estimate.
- Total Acid Extractable Nutrients indicate a store of nutrients.
- Total Phosphorus guide only to be used if a product claims to be used for phosphorus sensitive plants.
- Nitrate 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.
- 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.

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Humic - Fulvic acid Test

Client name	EAL - Ashley Clark	**Sample Received**	20/11/25
Crop	Liquid Fertilizer	**Tests ordered**	HWSE
Client Sample ID	Tully Humisoil	**Agent**	EAL Laboratories
Sample ID	E25-01-2772-0001	**Authorised by**	Dr Maria Manjarrez
Sample Date	19/11/25	**Analysis no.**	004766- 1

Test - Humic and Fulvic Acids



Results (%)

Humic Acids	Fulvic Acids
5.31	10.83

Comments

The concentration of Humic Acids in this sample was 5.31%. The concentration of Fulvic Acids was 10.83%. Humic acids are known to be large and complex molecules, which makes them less susceptible to microbial degradation. Fulvic acids are known to be chemically reactive with a high nutrient exchange capacity, which makes them ideal for nutrient transfer and availability to the plant.

Explanations. This test measures the concentration of Humic and Fulvic acids per gram of sample material by the California Dept. of Food and Agriculture Method # HA4/JC. Humic substances in the form of humins, humic acids and fulvic acids are a common component in soil, water, compost, peat, and in carbon containing minerals such as brown coals, low grade lignites, and leonardites. The content could vary according to the method used for quantification. Practices such as crop rotation, using balanced fertilization programs, planting legumes, plowing under green manures, returning organic matter to the land, application of compost, and using minimum tillage practices can all help build humus. Any production practice which damages the activities of living components of the soil should be avoided.

Analysis by Microbiology Laboratories Australia Pty Ltd ACN 145 073 481. The information in this report should be used under consideration of particular production conditions. The guide levels are derived from published data and ongoing research carried out by Microbiology Laboratories Australia. They are intended as a general guide only and do not take into account your specific conditions. Comparison of results with those obtained using other methods may be inaccurate, as accurate interpretation relies on specific sampling and analysis methods. Microbiology Laboratories Australia and its employees or agents will not be liable for any loss or damage arising from the use of the information supplied in this report. Please seek specific guidance and recommendations from a qualified compost and/or agriculture professional.