

Southern Cross University

PO Box 157 Lismore NSW 2480 P: +61 2 6620 3678 E: eal@scu.edu.au www.scu.edu.au/eal

ABN: 41 995 651 524

AS4419:2003 SOILS FOR LANDSCAPING AND GARDEN USE REPORT

(Number of samples) sample supplied by (Company name) on the (Date submitted), 20xx - Lab Job No. xx. Analysis requested by (Name of Client).

(Client Address)

Product Name Na			Sample 1			
Manufacture Date Test Code S.S.P.ACK-658 A.S.4419.2003		Product Name:	oumpro :	Guideline	Guideline	Guideline
Manufactured Date SS-PACK-658 A34419-2003 Appendix B Balk Density (thm*)		Product Type:				
Test Code SS.P.ACACGOB SS.P.ACACGOB ASAH19.2003 Soll Blend				AS4419:2003	AS4419:2003	
Standard Applicable			CC DACK 0E0	Low Density	Organic Soil	
Parameter						Con Biena
Moisture Content (%)	Parameter					
AS4419:2003 Appendix D	Bulk Density (t/m³)	AS4419:2003 Appendix B		0.3-0.6	>0.6	>0.7
AS4419:2003 Appendix D	Moisture Content (%)					
AS4419:2003 Appendix D	pH			5.5-7.5 see note 5	5.5-7.5 see note 5	5.5-7.5 see note 5
Estimated Organic Matter (% OM) Calculation - Total Carbon x 1.7 Ammonium Nitrogen (mg/L N) AS4419 2003 Appendix D AS4419 2003 Appendix E AS4419 2003 Clause 5.10b AS4419 2003 Appendix C AS4419 2003 A	Electrical Conductivity (dS/m)	AS4419:2003 Appendix D				
Ammonium Nitrogen (mg/L N) AS4419:2003 Appendix D AS4419:2003 Clause S:10b AS4419:2003 Appendix D AS4419:2003 Appe	Total Organic Carbon (%)	AS4419:2003 Clause 5.3				
Nitrogen (mg/L N) AS4419:2003 Appendix D AS4419:2003 Appendix E AS4419:2003 Clause 5.10b AS4419:2003 Appendix C	Estimated Organic Matter (% OM)	Calculation - Total Carbon x 1.7		10-40	15-25	3-15
Phosphate Phosphorus (mg/L P) Nitrogen Drawdown Index (NDI _{1sta}) AS4419:2003 Appendix E AS4419:2003 Clause 5.10b AS4419:2003 Appendix C	Ammonium Nitrogen (mg/L N)			< 200	< 200	
Nitrogen Drawdown Index (NDI ₁₀₀)	Nitrate Nitrogen (mg/L N)	AS4419:2003 Appendix D				
Total Zinc (mg/kg) Call Zinc (mg/kg) Cal	Phosphate Phosphorus (mg/L P)			< 3	< 3	
Total Copper (mg/kg) Total Selenium (mg/kg) AS4419:2003 Clause 5.10b AS4419:2003 Appendix C AS4419:2003	Nitrogen Drawdown Index (NDI ₁₅₀)	AS4419:2003 Appendix E		> 0.5	> 0.5	> 0.5
Total Selenium (mg/kg)	Total Zinc (mg/kg)			< 200 Zn	< 300 Zn	< 300 Zn
Total Cadmium (mg/kg) Total Lead (mg/kg) AS4419:2003 Clause 5.10b AS4419:2003 Appendix C	Total Copper (mg/kg)			< 100 Cu	< 150 Cu	< 150 Cu
Total Lead (mg/kg)	Total Selenium (mg/kg)			< 5 Se	< 5 Se	< 5 Se
AS4419:2003 Clause 5.10b AS4419:2003 Clause 5.10b Comparison of the comparison	Total Cadmium (mg/kg)			< 3 Cd	< 1 Cd	< 1 Cd
Total Arsenic (mg/kg)	Total Lead (mg/kg)			< 150 Pb	< 150 Pb	< 150 Pb
Total Nickel (mg/kg) Cotal Mercury (mg/kg) Cotal Mercury (mg/kg) Cotal Mercury (mg/kg) Cotal Mercury (mg/kg) Cotal Silver (mg	Total Arsenic (mg/kg)	AS4419:2003 Clause 5.10b		< 20 As	< 20 As	< 20 As
Total Mercury (mg/kg) Total Silver (mg/kg) Polychlorinated Biphenyls (mg/kg) Organochlorine Pesticides - DDT, DDD, DDE (mg/kg) AS4419:2003 Clause 5.10b AS4419:2003 Appendix C	Total Chromium (mg/kg)			< 100 Cr	< 100 Cr	< 100 Cr
Total Silver (mg/kg) Polychlorinated Biphenyls (mg/kg) Organochlorine Pesticides - DDT, DDD, DDE (mg/kg) AS4419:2003 Clause 5.10b AS4419:2003 Clause 5.10c AS4419:2003 Appendix C	Total Nickel (mg/kg)			< 60 Ni	< 60 Ni	< 60 Ni
Polychlorinated Biphenyls (mg/kg) Organochlorine Pesticides - DDT, DDD, DDE (mg/kg) AS4419:2003 Clause 5.10b AS4419:2003 Clause 5.10c AS4419:2003 Clause 5.10c AS4419:2003 Appendix C	Total Mercury (mg/kg)			< 1 Hg	< 1 Hg	< 1 Hg
Organochlorine Pesticides - DDT, DDD, DDE (mg/kg) AS4419:2003 Clause 5.10b < 0.5	Total Silver (mg/kg)					
Compand Comp	Polychlorinated Biphenyls (mg/kg)			< 0.3	< 0.3	< 0.3
Large Particle > 75 mm Sieve (%) Large Particle 50–75 mm Sieve (%) Large Particle 20–50 mm Sieve (%) AS4419:2003 Clause 5.14 AS4419:2003 Clause 5.14 AS4419:2003 Appendix C	Organochlorine Pesticides - DDT, DDD, DDE (mg/kg)	AS4419:2003 Clause 5.10b		< 0.5	< 0.5	< 0.5
Large Particle > 75 mm Sieve (%) Large Particle 50–75 mm Sieve (%) Large Particle 20–50 mm Sieve (%) AS4419:2003 Clause 5.14 AS4419:2003 Clause 5.14 AS4419:2003 Appendix C	Organochlorine Pesticides - Other (mg/kg) see note 9			< 0.02	< 0.02	< 0.02
AS4419:2003 Clause 5.14 <2 <2 <2 <2	Large Particle > 75 mm Sieve (%)					
Large Particle 10-20 mm Sieve (%)	Large Particle 50–75 mm Sieve (%)					
Large Particle < 10 mm Sieve (%)	Large Particle 20–50 mm Sieve (%)	AS4419:2003 Clause 5.14		< 2	< 2	< 2
Wettability (min or mm) AS4419:2003 Appendix C < 5 min > 5 mm > 5 mm Permeability (cm/h) AS4419:2003 Appendix H 2 - 100 2 - 100 2 - 100 Texture AS4419:2003 Appendix I Dispersibility (Water) AS4419:2003 Appendix G	Large Particle 10–20 mm Sieve (%)			< 8	< 8	< 8
Permeability (cm/h) AS4419:2003 Appendix H 2 - 100 2 - 100 2 - 100 Texture AS4419:2003 Appendix I 1 or 2 Dispersibility (Water) AS4419:2003 Appendix G 1 or 2 Dispersibility (CaCl2) 1 or 2	Large Particle < 10 mm Sieve (%)					
Texture	Wettability (min or mm)	AS4419:2003 Appendix C		< 5 min	> 5 mm	> 5 mm
Dispersibility (Water) AS4419:2003 Appendix G	Permeability (cm/h)	AS4419:2003 Appendix H		2 - 100	2 - 100	2 - 100
AS4419:2003 Appendix G 1 or 2	Texture	AS4419:2003 Appendix I				
Dispersibility (CaCl2) 1 or 2	Dispersibility (Water)	40.4440.0000.4				1 or 2
Plant Growth Test - Root Elongation (mm) AS4419:2003 Appendix F > 70 > 70 > 70	Dispersibility (CaCl2)	AS4419:2003 Appendix G				1 or 2
• · · · · · · · · · · · · · · · · · · ·	Plant Growth Test - Root Elongation (mm)	AS4419:2003 Appendix F		> 70	> 70	> 70

Notes:

- 1. Methods from AS4419:2003 Soils for landscaping and garden use.
 2. Indicative guidelines are based on those in AS4419:2003 for low density soils, organic soils, natural soils.
- 3. Total Acid Extractable Nutrients indicate a store of nutrients.
- 4. Conversions for 1 mg/kg = 1 ppm; 1 % = 10,000 ppm; kg/ha = mg/kg x 2.24.
- 5. Designated acid soils will have a pH between 4.5-6.0 and alkaline soils between 7.0-8.5.
- 6. The chloride calculation of CI mg/L = EC x 640 is considered an estimate, and most likely an over-estimate.
- Soils that exhibit Category 3 or 4 behaviour in water will likely improved and pass by the addition of gypsum.
 All soils should be free from any living parts (seeds, bubs, corms, vegetative propagules and the like).
 Other Organochiorines include: Aldrin, Dieldrin, Chiordane, Heptachior, HCB, Lindane, BHC Other Organophosphorus include: Guthion, Bromophos-ethyl, Chiorpyriphos, Chiorpyriphos-methy, Diazinon, Dichlorvos, Dimethoate, Ethion, Fenitrothion, Malathion, Parathion, Ronnel.
- 10. Analysis conducted between sample arrival date and reporting date.
- 11. This report is not to be reproduced except in full.
- 12. Analysis sub-contracted XXX Laboratories report no. xx.
- 13. All testing parameters have been facilitated by a NATA accredited laboratory.

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



