

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: Product Type: Manufacturing Site: Manufactured Date: Test Code: Standard Applicable:		Sample 1	Guideline	Guideline	Guideline
		SS-PACK-058 AS4419:2003	AS4419:2003 Low Density	AS4419:2003 Organic Soil	AS4419:2003 Natural Soil or Soil Blend
Parameter	Method Reference	X/1			
Bulk Density (t/m ³)	AS4419:2003 Appendix B		0.3-0.6	>0.6	>0.7
Moisture Content (%)			..	..	..
pH	AS4419:2003 Appendix D		5.5-7.5 ^{see note 5}	5.5-7.5 ^{see note 5}	5.5-7.5 ^{see note 5}
Electrical Conductivity (dS/m)			< 2.5	< 2.5	< 1.2
Total Organic Carbon (%)	AS4419:2003 Clause 5.3		..	..	..
Estimated Organic Matter (% OM)	Calculation - Total Carbon x 1.7		10-40	15-25	3-15
Ammonium Nitrogen (mg/L N)			< 200	< 200	..
Nitrate Nitrogen (mg/L N)	AS4419:2003 Appendix D		..	..	..
Phosphate Phosphorus (mg/L P)			< 3	< 3	..
Nitrogen Drawdown Index (NDI ₁₅₀)	AS4419:2003 Appendix E		> 0.5	> 0.5	> 0.5
Total Zinc (mg/kg)			< 200 Zn	< 300 Zn	< 300 Zn
Total Copper (mg/kg)			< 100 Cu	< 150 Cu	< 150 Cu
Total Selenium (mg/kg)			< 5 Se	< 5 Se	< 5 Se
Total Cadmium (mg/kg)			< 3 Cd	< 1 Cd	< 1 Cd
Total Lead (mg/kg)			< 150 Pb	< 150 Pb	< 150 Pb
Total Arsenic (mg/kg)			< 20 As	< 20 As	< 20 As
Total Chromium (mg/kg)			< 100 Cr	< 100 Cr	< 100 Cr
Total Nickel (mg/kg)			< 60 Ni	< 60 Ni	< 60 Ni
Total Mercury (mg/kg)			< 1 Hg	< 1 Hg	< 1 Hg
Total Silver (mg/kg)			..	..	..
Polychlorinated Biphenyls (mg/kg)			< 0.3	< 0.3	< 0.3
Organochlorine Pesticides - DDT, DDD, DDE (mg/kg)	AS4419:2003 Clause 5.10b		< 0.5	< 0.5	< 0.5
Organochlorine Pesticides - Other (mg/kg) ^{see note 9}			< 0.02	< 0.02	< 0.02
Large Particle > 75 mm Sieve (%)			..	..	..
Large Particle 50-75 mm Sieve (%)			..	..	..
Large Particle 20-50 mm Sieve (%)	AS4419:2003 Clause 5.14		< 2	< 2	< 2
Large Particle 10-20 mm Sieve (%)			< 8	< 8	< 8
Large Particle < 10 mm Sieve (%)			..	..	..
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)			..	..	1 or 2
Dispersibility (CaCl ₂)	AS4419:2003 Appendix G		..	..	1 or 2
Plant Growth Test - Root Elongation (mm)	AS4419:2003 Appendix F		> 70	> 70	> 70

Notes:

- Methods from AS4419:2003 *Soils for landscaping and garden use*.
- Indicative guidelines are based on those in AS4419:2003 for low density soils, organic soils, natural soils.
- 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.
- Designated acid soils will have a pH between 4.5-6.0 and alkaline soils between 7.0-8.5.
- The chloride calculation of Cl 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, bulbs, corms, vegetative propagules and the like).
- 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.
- Analysis conducted between sample arrival date and reporting date.
- This report is not to be reproduced except in full.
- Analysis sub-contracted - XXX Laboratories report no. xx.
- All testing parameters have been facilitated by a NATA accredited laboratory.

Quality Checked: Brian Smith
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