

**SWEP**
PTY. LTD.

ABN 26 005 031 569

**ANALYTICAL
LABORATORIES**Tel: (03) 9701 6007
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FILE NO : 2003149870

DATE ISSUED : 6/03/2020

CONWAYS NATURAL GYPSUM P/L
PO BOX 990CLIENT ID : CON023
PHONE : 03 5083 3369

BENDIGO CENTRAL, VIC 3552

SAMPLE ID : A
ANALYSIS REQUIRED : Full

DATE RECEIVED : 2/03/2020

ITEMS	ABBREVIATION	UNIT	RESULTS
Results of analysis on sample on dry weight basis:			
TOTAL CALCIUM	Ca	%	21.2
TOTAL MAGNESIUM	Mg	%	0.455
TOTAL SODIUM	Na	%	0.0653
TOTAL POTASSIUM	K	%	0.479
TOTAL NITROGEN	N	ppm	Nil
TOTAL PHOSPHORUS	P	ppm	51.2
TOTAL SULPHUR	S	%	15.4
TOTAL COPPER	Cu	ppm	4.65
TOTAL ZINC	Zn	ppm	5.9
TOTAL IRON	Fe	ppm	2550
TOTAL MANGANESE	Mn	ppm	27.4
TOTAL COBALT	Co	ppm	1.52
TOTAL MOLYBDENUM	Mo	ppm	0.335
CALCIUM SULPHATE	CaSO ₄ .2H ₂ O	%	82.8
pH	(1:5 Water)		8.97
Electrical Conductivity		µS/cm	2490
TOTAL BORON	B	ppm	20.3
MOISTURE CONTENT	MC	%	0.846
TOTAL MERCURY	Hg	ppm	Not required
TOTAL LEAD	Pb	ppm	Not required
TOTAL CADMIUM	Cd	ppm	Not required

Gypsum described as Grade 1 : Gypsum must contain a minimum of 15.0% sulphur (S) and a minimum of 19.0% Calcium (Ca).

Gypsum described as Grade 2 : Gypsum must contain a minimum of 12.5% sulphur (S) and a minimum of 15.5% Calcium (Ca).

Gypsum described as Grade 3 : Gypsum must contain a minimum of 10.0% sulphur (S) and a minimum of 12.5% Calcium (Ca).

This sample complies with the standard for Gypsum under the 1995 Victorian
Agricultural and Veterinary Chemicals (Fertilisers) Regulation (Statutory Rule No 25/1995)

ANALYTICAL METHODS

Items	Methods
TOTAL CALCIUM	HCl Evaporation, ICPAES
TOTAL MAGNESIUM	HCl Evaporation, ICPAES
TOTAL SODIUM	HCl Evaporation, ICPAES
TOTAL POTASSIUM	HCl Evaporation, ICPAES
TOTAL NITROGEN	Dumas method, LECO
TOTAL PHOSPHORUS	HCl Evaporation, ICPAES
TOTAL SULPHUR	HCl Evaporation, ICPAES
TOTAL COPPER	HCl Evaporation, ICPAES
TOTAL ZINC	HCl Evaporation, ICPAES
TOTAL IRON	HCl Evaporation, ICPAES
TOTAL MANGANESE	HCl Evaporation, ICPAES
TOTAL COBALT	HCl Evaporation, ICPAES
TOTAL MOLYBDENUM	HCl Evaporation, ICPAES
CALCIUM SULPHATE	Calculated from Total Sulphur
pH	Method 4A1, water suspension*
Electrical Conductivity	Method 3A1, water extract*
TOTAL BORON	HCl Evaporation, ICPAES
MOISTURE CONTENT	Gravimetric method
TOTAL MERCURY	Aqua Regia Microwave Digestion, ICPAES
TOTAL LEAD	HCl Evaporation, ICPAES
TOTAL CADMIUM	HCl Evaporation, ICPAES

*Rayment, G.E. & Lyons, D.J. (2011). Soil Chemical Methods - Australasia. CSIRO Publishing, 150 Oxford Street, Collingwood Vic 3066, Australia.