

Analysis & Bio-Hazard Potential

ITEM		unit	RESULT
Basic Measures:			
pH (1:5 Water)			6.5
pH (1:5 0.01M CaCl ₂)			7
Electrical Conductivity	EC	µS/cm	3110
TOTAL SOLUBLE SALT	TSS	ppm	10263
Major Nutrients:			
			(Major Nutrients in percentages)
TOTAL NITROGEN	N	kg/t	12
TOTAL PHOSPHORUS	P	kg/t	4.3
TOTAL POTASSIUM	K	kg/t	9.3
TOTAL SULPHUR	S	kg/t	1.7
Total Cations:			
TOTAL CALCIUM	Ca	%	1.71
TOTAL MAGNESIUM	Mg	%	0.609
TOTAL SODIUM	Na	%	0.339
Trace Minerals:			
TOTAL COPPER	Cu	ppm	30.9
TOTAL ZINC	Zn	ppm	177
TOTAL IRON	Fe	%	1.15
TOTAL MANGANESE	Mn	ppm	361
TOTAL COBALT	Co	ppm	4.26
TOTAL MOLYBDENUM	Mo	ppm	1.22
TOTAL BORON	B	ppm	20.3
Carbon Content:			
TOTAL ORGANIC MATTER		%	28.8
TOTAL ORGANIC CARBON		%	14.4
CARBON NITROGEN RATIO	C:N		12
MOISTURE CONTENT	MC	%	45.3

Plant Available Nutrients

ITEM		unit	RESULT
AVAILABLE CALCIUM	Ca	ppm	6320
AVAILABLE MAGNESIUM	Mg	ppm	2592
AVAILABLE SODIUM	Na	ppm	2714
AVAILABLE NITROGEN	N	ppm	788
AVAILABLE PHOSPHORUS	P	ppm	916
AVAILABLE POTASSIUM	K	ppm	5811
AVAILABLE SULPHUR	S	ppm	256
AVAILABLE COPPER	Cu	ppm	14.2
AVAILABLE ZINC	Zn	ppm	134
AVAILABLE IRON	Fe	ppm	148
AVAILABLE MANGANESE	Mn	ppm	104
AVAILABLE COBALT	Co	ppm	0.403
AVAILABLE MOLYBDENUM	Mo	ppm	1.17
AVAILABLE BORON	B	ppm	9.02

Notes: These results represent the proportion of the Total nutrients (page 2) that will be immediately available for plant uptake.

ppm (parts per million) = mg/L (milligram per litre) = mg/kg (milligram per kilogram)

Exchangeable Cations

EXCHANGEABLE CATIONS		RESULTS	
CALCIUM	Ca	meq/100g of sample	19.16
MAGNESIUM	Mg	meq/100g of sample	13.10
SODIUM	Na	meq/100g of sample	7.15
POTASSIUM	K	meq/100g of sample	9.03
HYDROGEN	H	meq/100g of sample	7.00
ADJ. EXCH. HYDROGEN	H	meq/100g of sample	0
CATION EXCHANGE CAPACITY	CEC	meq/100g of sample	55.44
ADJUSTED CEC	Adj.CEC	meq/100g of sample	48.44
SATURATION BASE PERCENTAGE	BSP		91.9

meq = milliequivalent

EXCHANGEABLE CATION BALANCE		% OF ADJUSTED CEC	DESIRABLE
CALCIUM PERCENTAGE		39.55	65-70%
MAGNESIUM PERCENTAGE		27.04	12-15%
SODIUM PERCENTAGE	ESP	14.76	0.5-5%
POTASSIUM PERCENTAGE		18.64	3-5%
ADJ. HYDROGEN PERCENTAGE		0	<20%
CALCIUM / MAGNESIUM RATIO	Ca/Mg	1.46	2 - 4

Bio-Hazard Indicators

E. coli	MPN / g	3
Legionella spp.*	CFU / g	<5
Listeria spp.	/ 50 g	ND
Salmonella spp.	per 25 gram	ND

MPN = Most Probable Number Pres = Presence < = less than CFU = Colony Forming Unit ND = Not Detected

* This test, calibration or measurement have been performed by ALS Group Limited
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