



SWEP ANALYTICAL LABORATORIES

PTY. LTD.

ABN 26 005 031 569

Tel: (03) 9701 6007
Fax: (03) 9701 5712

REPORT ON SAMPLE OF SOIL

FILE NO : 2004151021

DATE ISSUED 6/05/2020

WINDRIDGE FARMS
PO BOX 50
YOUNG, NSW 2594

CLIENT ID : WIN031
PHONE : 02 6382 1311

admin@windridge.com.au

SAMPLE ID : SAMPLE SEPs STOCKPILE
DEPTH OF SAMPLE (cm): 0 to 10
LAND USE : PASTURE

REFERENCE :
PHONE :
DATE RECEIVED : 22/04/2020
ANALYSIS REQUIRED : Type Koorani

ITEMS			RESULTS	DESIRABLE LEVEL
pH(1:5 Water)			6.8	5.5-7.5
pH(1:5 0.01M CaCl ₂)			6.26	5.5-7.5
Electrical Conductivity	EC	µS/cm	9200	< 300
NITROGEN as Nitrate	N	mg/kg	3500	26
AVAILABLE PHOSPHORUS (Colwell)	P	mg/kg	9490	70
TOTAL ORGANIC CARBON	OC	mg/kg	143500	> 50000
EXTRACTABLE ALUMINIUM	Al	cmol(+)/kg	0.04	
EXCHANGEABLE CALCIUM	Ca	cmol(+)/kg	30.8	72.15
EXCHANGEABLE MAGNESIUM	Mg	cmol(+)/kg	18	16.65
EXCHANGEABLE SODIUM	Na	cmol(+)/kg	43.2	< 5.55
EXCHANGEABLE POTASSIUM	K	cmol(+)/kg	19	5.55
EXCHANGEABLE HYDROGEN	H	cmol(+)/kg	10.1	< 16.65
TOTAL NITROGEN	TN	mg/kg	21800	
CATION EXCHANGE CAPACITY	CEC	cmol(+)/kg	121.1	
MOISTURE CONTENT	MC	%	33.1	
TOTAL PHOSPHOROUS	TP	%	2.6	
TOTAL SODIUM	Na	%	1.15	
TOTAL POTASSIUM	TK	%	2.18	
OLSEN PHOSPHOROUS	P	mg/kg	9150	

ANALYTICAL METHODS

Items	Methods
pH (1:5 Water)	4A1
pH (1:5 CaCl ₂)	4B1
Electrical conductivity (1:5 Water)	3A1
Available Nitrogen	Copper-cadmium reductor column at a pH of 8.0
Available Phosphorus	Colwell extractable, 9B1
Total Organic Carbon	High frequency induction furnace, 6B3
Extractable Aluminium	15G1
Exchangeable Calcium	15D3 or 15A1
Exchangeable Magnesium	15D3 or 15A1
Exchangeable Sodium	15D3 or 15A1
Exchangeable Potassium	15D3 or 15A1
Exchangeable Hydrogen	Barium Chloride-Triethanolamine method*
Total Nitrogen	7A5

For numbered test methods:

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

*Peech, M., Cowan, R.L. & Baker, J.H. (1962). Soil Science Society American Procedures, A critical study of the Barium chloride-Triethanolamine and ammonium acetate methods for determining exchangeable Hydrogen of soils.



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REPORT ON SAMPLE OF SOIL

FILE NO : 2004151018

DATE ISSUED 6/05/2020

WINDRIDGE FARMS
PO BOX 50
YOUNG, NSW 2594

CLIENT ID : WIN031
PHONE : 02 6382 1311

admin@windridge.com.au

SAMPLE ID : HAMBROOKS
DEPTH OF SAMPLE (cm): 0 to 10
LAND USE : PASTURE

REFERENCE :
PHONE :
DATE RECEIVED : 22/04/2020
ANALYSIS REQUIRED : Type Koorani

ITEMS			RESULTS	DESIRABLE LEVEL
pH(1:5 Water)			6.4	5.5-7.5
pH(1:5 0.01M CaCl ₂)			5.89	5.5-7.5
Electrical Conductivity	EC	µS/cm	153	< 300
NITROGEN as Nitrate	N	mg/kg	45.8	22
AVAILABLE PHOSPHORUS (Colwell)	P	mg/kg	52.2	40
TOTAL ORGANIC CARBON	OC	mg/kg	10300	15000 - 20000
EXTRACTABLE ALUMINIUM	Al	cmol(+)/kg	0.00	
EXCHANGEABLE CALCIUM	Ca	cmol(+)/kg	4.27	4.84
EXCHANGEABLE MAGNESIUM	Mg	cmol(+)/kg	0.49	1.12
EXCHANGEABLE SODIUM	Na	cmol(+)/kg	0.03	< 0.37
EXCHANGEABLE POTASSIUM	K	cmol(+)/kg	0.8	0.37
EXCHANGEABLE HYDROGEN	H	cmol(+)/kg	2.88	< 1.12
TOTAL NITROGEN	TN	mg/kg	858	
CATION EXCHANGE CAPACITY	CEC	cmol(+)/kg	8.47	
OLSEN P	P	mg/kg	20.9	

ANALYTICAL METHODS

Items	Methods
pH (1:5 Water)	4A1
pH (1:5 CaCl ₂)	4B1
Electrical conductivity (1:5 Water)	3A1
Available Nitrogen	Copper-cadmium reductor column at a pH of 8.0
Available Phosphorus	Colwell extractable, 9B1
Total Organic Carbon	High frequency induction furnace, 6B3
Extractable Aluminium	15G1
Exchangeable Calcium	15D3 or 15A1
Exchangeable Magnesium	15D3 or 15A1
Exchangeable Sodium	15D3 or 15A1
Exchangeable Potassium	15D3 or 15A1
Exchangeable Hydrogen	Barium Chloride-Triethanolamine method*
Total Nitrogen	7A5

For numbered test methods:

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

*Peech, M., Cowan, R.L. & Baker, J.H. (1962). Soil Science Society American Procedures, A critical study of the Barium chloride-Triethanolamine and ammonium acetate methods for determining exchangeable Hydrogen of soils.



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REPORT ON SAMPLE OF SOIL

FILE NO : 2004151020

DATE ISSUED 6/05/2020

WINDRIDGE FARMS
PO BOX 50
YOUNG, NSW 2594

CLIENT ID : WIN031
PHONE : 02 6382 1311

admin@windridge.com.au

SAMPLE ID : SAMPLE OF STRAW BASED STOCKPILE
DEPTH OF SAMPLE (cm): 0 to 10
LAND USE : PASTURE

REFERENCE :
PHONE :
DATE RECEIVED : 22/04/2020
ANALYSIS REQUIRED : Type Koorani

ITEMS			RESULTS	DESIRABLE LEVEL
pH(1:5 Water)			7.5	5.5-7.5
pH(1:5 0.01M CaCl ₂)			7.01	5.5-7.5
Electrical Conductivity	EC	µS/cm	12400	< 300
NITROGEN as Nitrate	N	mg/kg	509	26
AVAILABLE PHOSPHORUS (Colwell)	P	mg/kg	5660	70
TOTAL ORGANIC CARBON	OC	mg/kg	205000	> 50000
EXTRACTABLE ALUMINIUM	Al	cmol(+)/kg	0.13	
EXCHANGEABLE CALCIUM	Ca	cmol(+)/kg	9.07	62.65
EXCHANGEABLE MAGNESIUM	Mg	cmol(+)/kg	1.81	14.46
EXCHANGEABLE SODIUM	Na	cmol(+)/kg	52.1	< 4.82
EXCHANGEABLE POTASSIUM	K	cmol(+)/kg	33.4	4.82
EXCHANGEABLE HYDROGEN	H	cmol(+)/kg	3.36	< 14.46
TOTAL NITROGEN	TN	mg/kg	26700	
CATION EXCHANGE CAPACITY	CEC	cmol(+)/kg	99.74	
MOISTURE CONTENT	MC	%	6.44	
TOTAL PHOSPHOROUS	TP	%	1.07	
TOTAL SODIUM	Na	%	1.28	
TOTAL POTASSIUM	TK	%	3.53	
OLSEN PHOSPHOROUS	P	mg/kg	5090	

ANALYTICAL METHODS

Items	Methods
pH (1:5 Water)	4A1
pH (1:5 CaCl ₂)	4B1
Electrical conductivity (1:5 Water)	3A1
Available Nitrogen	Copper-cadmium reductor column at a pH of 8.0
Available Phosphorus	Colwell extractable, 9B1
Total Organic Carbon	High frequency induction furnace, 6B3
Extractable Aluminium	15G1
Exchangeable Calcium	15D3 or 15A1
Exchangeable Magnesium	15D3 or 15A1
Exchangeable Sodium	15D3 or 15A1
Exchangeable Potassium	15D3 or 15A1
Exchangeable Hydrogen	Barium Chloride-Triethanolamine method*
Total Nitrogen	7A5

For numbered test methods:

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

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REPORT ON SAMPLE OF SOIL

FILE NO : 2004151015

DATE ISSUED 6/05/2020

WINDRIDGE FARMS
PO BOX 50
YOUNG, NSW 2594

CLIENT ID : WIN031
PHONE : 02 6382 1311

admin@windridge.com.au

SAMPLE ID : BYWONG FRONT
DEPTH OF SAMPLE (cm): 0 to 10
LAND USE : PASTURE

REFERENCE :
PHONE :
DATE RECEIVED : 22/04/2020
ANALYSIS REQUIRED : Type Koorani

ITEMS			RESULTS	DESIRABLE LEVEL
pH(1:5 Water)			5.7	5.5-7.5
pH(1:5 0.01M CaCl ₂)			5.23	5.5-7.5
Electrical Conductivity	EC	µS/cm	128	< 300
NITROGEN as Nitrate	N	mg/kg	41.4	21
AVAILABLE PHOSPHORUS (Colwell)	P	mg/kg	56.9	40
TOTAL ORGANIC CARBON	OC	mg/kg	13700	15000 - 20000
EXTRACTABLE ALUMINIUM	Al	cmol(+)/kg	0.00	
EXCHANGEABLE CALCIUM	Ca	cmol(+)/kg	4.49	5.71
EXCHANGEABLE MAGNESIUM	Mg	cmol(+)/kg	0.73	1.32
EXCHANGEABLE SODIUM	Na	cmol(+)/kg	0.06	< 0.44
EXCHANGEABLE POTASSIUM	K	cmol(+)/kg	0.88	0.44
EXCHANGEABLE HYDROGEN	H	cmol(+)/kg	4	< 1.32
TOTAL NITROGEN	TN	mg/kg	1150	
CATION EXCHANGE CAPACITY	CEC	cmol(+)/kg	10.16	
OLSEN PHOSPHOROUS	P	mg/kg	26.8	

ANALYTICAL METHODS

Items	Methods
pH (1:5 Water)	4A1
pH (1:5 CaCl ₂)	4B1
Electrical conductivity (1:5 Water)	3A1
Available Nitrogen	Copper-cadmium reductor column at a pH of 8.0
Available Phosphorus	Colwell extractable, 9B1
Total Organic Carbon	High frequency induction furnace, 6B3
Extractable Aluminium	15G1
Exchangeable Calcium	15D3 or 15A1
Exchangeable Magnesium	15D3 or 15A1
Exchangeable Sodium	15D3 or 15A1
Exchangeable Potassium	15D3 or 15A1
Exchangeable Hydrogen	Barium Chloride-Triethanolamine method*
Total Nitrogen	7A5

For numbered test methods:

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