

# SOIL ANALYSIS

**Agent:** Nutrien Ag Solutions - Goulburn  
**Agent Address:** PO Box 182,  
 GOULBURN, NSW, 2580  
**Client:** Wingecarribee Shire Council  
**Test Set or Quotation:** SS1  
**Barcode:** 111271576  
**Batch Number:** 38654  
**Submission ID:** 123273

**Report Date:** 26/06/2024  
**Sampling Date:** 11/06/2024  
**Date Received:** 18/06/2024  
**Sample Name:** ELVA FRONT  
**Crop:** Pasture  
**Sample Depth:** 0-10  
**GPS Start:** NA  
**GPS End:** NA

Analyte		Unit	Desired Level	Level Found	c.mol/kg	Very Low	Low	Acceptable	High	Excessive
	ECEC	cmol/kg	5.00-25.0	9.21						
	Organic Carbon (W&B) <sup>2</sup>	% (40°C)	0.90-1.80	4.88						
	pH 1:5 water	pH units	6.50-7.50	6.09						
	pH CaCl2 (following 4A1)	pH units	5.50-6.50	5.28						
Extractable N-P-K-S	Nitrate - N (2M KCl)	mg/kg	20-50	2.0						
	Ammonium - N (2M KCl)	mg/kg	2.0-10	38						
	Colwell Phosphorus	mg/kg	36-49	46						
	PBI + Col P		35-70	148						
	Colwell Potassium	mg/kg	150-220	350						
	KCl Sulfur (S)	mg/kg	8.0-20	6.6						
Exchangeable cations	Calcium (Ca) - AmmAc	mg/kg	1000-2000	1300	6.49					
	Magnesium (Mg) - AmmAc	mg/kg	150-200	207	1.70					
	Potassium (K) - AmmAc	mg/kg	150-220	347	0.888					
	Sodium (Na) - AmmAc	mg/kg	15.0-120	29.5	0.128					
	Exchangeable aluminium	cmol/kg	0.10-0.35	<0.02						
	Exchangeable hydrogen	cmol/kg	0.10-0.35	<0.02						
Salt	Salinity EC 1:5	dS/m	0.025-0.15	0.089						
Ratios	Ca:Mg Ratio		2.0-8.0	3.8						
	K:Mg Ratio		0.10-0.50	0.52						
	GTRI		0.02-0.07	0.11						
		Unit	Desired Level	Level Found						
Exch. cation % of ECEC	Calcium	%	60.0-80.0	70.5						
	Magnesium	%	10.0-20.0	18.5						
	Potassium	%	3.0-8.0	9.6						
	Sodium	%	0.5-6.0	1.4						
	Aluminium	%	0.5-10	0.0						
	Hydrogen	%	0.3-5.0	0.0						

NOTE<sup>1</sup>: Eurofins APAL will review published literature for crop desired levels, and reserves the right to make changes to this information in test reports as and when these reviews are conducted.

NOTE<sup>2</sup>: Walkley and Black Organic Carbon % (40°C) data presented in this test report have been obtained by a combination of laboratory wet chemistry and the equivalent modelled result from Mid-Infrared Diffuse Reflectance Spectroscopy and Partial Least Squares Regression (PLSR) analysis. An explanatory technical note is available upon request. The exception is for quoted work that specifically required laboratory wet chemistry.

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**Barcode:** 111271575  
**Batch Number:** 38654  
**Submission ID:** 123273

**Report Date:** 26/06/2024  
**Sampling Date:** 11/06/2024  
**Date Received:** 18/06/2024  
**Sample Name:** SALEYARD PADDOCK  
**Crop:** Pasture  
**Sample Depth:** 0-10  
**GPS Start:** NA  
**GPS End:** NA

Analyte		Unit	Desired Level	Level Found	c.mol/kg	Very Low	Low	Acceptable	High	Excessive
	ECEC	cmol/kg	5.00-25.0	8.25						
	Organic Carbon (W&B) <sup>2</sup>	% (40°C)	0.90-1.80	3.93						
	pH 1:5 water	pH units	6.50-7.50	6.48						
	pH CaCl2 (following 4A1)	pH units	5.50-6.50	5.88						
Extractable N-P-K-S	Nitrate - N (2M KCl)	mg/kg	20-50	1.4						
	Ammonium - N (2M KCl)	mg/kg	2.0-10	9.5						
	Colwell Phosphorus	mg/kg	33-46	86						
	PBI + Col P		35-70	105						
	Colwell Potassium	mg/kg	150-220	370						
	KCl Sulfur (S)	mg/kg	8.0-20	7.0						
Exchangeable cations	Calcium (Ca) - AmmAc	mg/kg	1000-2000	1130	5.66					
	Magnesium (Mg) - AmmAc	mg/kg	150-200	202	1.66					
	Potassium (K) - AmmAc	mg/kg	150-220	314	0.803					
	Sodium (Na) - AmmAc	mg/kg	15.0-120	28.3	0.123					
	Exchangeable aluminium	cmol/kg	0.10-0.35	<0.02						
	Exchangeable hydrogen	cmol/kg	0.10-0.35	<0.02						
Salt	Salinity EC 1:5	dS/m	0.025-0.15	0.096						
Ratios	Ca:Mg Ratio		2.0-8.0	3.4						
	K:Mg Ratio		0.10-0.50	0.48						
	GTRI		0.02-0.07	0.11						
		Unit	Desired Level	Level Found						
Exch. cation % of ECEC	Calcium	%	60.0-80.0	68.6						
	Magnesium	%	10.0-20.0	20.2						
	Potassium	%	3.0-8.0	9.7						
	Sodium	%	0.5-6.0	1.5						
	Aluminium	%	0.5-10	0.0						
	Hydrogen	%	0.3-5.0	0.0						

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**Report Date:** 26/06/2024  
**Sampling Date:** 11/06/2024  
**Date Received:** 18/06/2024  
**Sample Name:** ELVA BACK  
**Crop:** Pasture  
**Sample Depth:** 0-10  
**GPS Start:** NA  
**GPS End:** NA

					Very Low	Low	Acceptable	High	Excessive	
Analyte	Unit	Desired Level	Level Found	c.mol/kg						
ECEC	cmol/kg	5.00-25.0	7.30							
Organic Carbon (W&B) <sup>2</sup>	% (40°C)	0.70-1.40	3.71							
pH 1:5 water	pH units	6.50-7.50	6.23							
pH CaCl2 (following 4A1)	pH units	5.50-6.50	5.41							
Extractable N-P-K-S	Nitrate - N (2M KCl)	mg/kg	20-50	3.1						
	Ammonium - N (2M KCl)	mg/kg	2.0-10	24						
	Colwell Phosphorus	mg/kg	30-43	24						
	PBI + Col P		35-70	98						
	Colwell Potassium	mg/kg	130-190	290						
	KCl Sulfur (S)	mg/kg	8.0-20	5.3						
Exchangeable cations	Calcium (Ca) - AmmAc	mg/kg	800-1500	1080	5.39					
	Magnesium (Mg) - AmmAc	mg/kg	100-150	145	1.19					
	Potassium (K) - AmmAc	mg/kg	130-190	258	0.659					
	Sodium (Na) - AmmAc	mg/kg	15.0-70.0	14.0	0.061					
	Exchangeable aluminium	cmol/kg	0.10-0.35	<0.02						
	Exchangeable hydrogen	cmol/kg	0.10-0.35	<0.02						
Salt	Salinity EC 1:5	dS/m	0.025-0.15	0.066						
Ratios	Ca:Mg Ratio		2.0-8.0	4.5						
	K:Mg Ratio		0.10-0.50	0.55						
	GTRI		0.02-0.07	0.10						
					Very Low	Low	Acceptable	High	Excessive	
	Unit	Desired Level	Level Found							
Exch. cation % of ECEC	Calcium	%	60.0-80.0	73.8						
	Magnesium	%	10.0-20.0	16.3						
	Potassium	%	3.0-8.0	9.0						
	Sodium	%	0.5-6.0	0.8						
	Aluminium	%	0.5-10	0.0						
	Hydrogen	%	0.3-5.0	0.0						

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