AGVITA ANALYTICAL

expressSoil®

Client Details

Client:	EXAMPLE CLIENT	**Date received:**	12/02/2020
Grower:	Example Grower	**Current Paddock:**	BLOCK A (Sampled: 12/02/2020)
Order No.:	2016-156	**Date reported:**	17/02/20
Sample ID:	18004415	**Profile sampled (cm):**	30
Lab code:	ES25	**Client agronomist:**	EXAMPLE AGRONOMIST
Crop:	POTATO	**Soil Type:**	Heavy Soil (CEC >12meq)

N-Check Results

NO3-N:	10.90ppm	**Nitrate:**	97.2 kg/ha	**Total available NO3 + NH4:**	**98.3 kg/ha**
NH4-N:	0.12ppm	**Ammonium:**	1.0 kg/ha	**Total req. NO3 + NH4 (kg/ha):**	
				Total available NITROGEN =	**22.8 kg/ha**
Bulk Density:	1.07g/cm	**Rootzone Moisture**	33 mm	**% Moisture:**	10.20% W/W

expressSoil Results

Analyte	Units	Result	Optimal Range	Status
pH (H_2O)*	(pH)	**7.10**	6 - 7	Alkaline
pH ($CaCl_2$)*	(pH)	**6.51**	5.2 - 6.5	Alkaline
EC*	dS/m	**0.17**	0 - 0.15	High
Lime requirement	t/ha			
ESI	units	**0.049**	value >0.05	Low
Total Carbon*	%	**0.803**		
Total Nitrogen*	%	**0.072**		
Carbon:Nitrogen Ratio	(ratio)	**11.134**		
Organic Matter	%	**1.236**	3.25 - 5.2	Very Low
M3 PSR	(ratio)	**0.44**	0.06 - 0.23	Very High
Mehlich Phosphorus*	ppm	**103.0**	40 - 90	High
Potassium*	ppm	**217.9**	245 - 400	Low
Sulphur*	ppm	**23.9**	12 - 45	Satisfactory
Calcium*	ppm	**2127**	1950 - 3450	Satisfactory
Magnesium*	ppm	**356.7**	220 - 440	Satisfactory
Sodium*	ppm	**121.2**	32 - 115	High
Chloride*	ppm	**74**	0 - 200	Satisfactory
Zinc*	ppm	**7.11**	2.2 - 11	Satisfactory
Copper*	ppm	**14.82**	2.5 - 10	Very High
Boron*	ppm	**0.57**	2.2 - 6	Very Low
Manganese*	ppm	**84.6**	18 - 70	High
Iron*	ppm	**129.4**	40 - 250	Satisfactory
CECe	meq/100g	**15.458**		
Calcium	meq/100g	**10.6 (68.7%CEC)**	9.7 - 17.2	Satisfactory
Potassium	meq/100g	**0.6 (3.6%CEC)**	0.6 - 1.0	Low
Magnesium	meq/100g	**3.8 (24.3%CEC)**	1.8 - 3.6	High
Sodium	meq/100g	**0.5 (3.4%CEC)**	0.1 - 0.5	High
Base Saturation	%	**100**	80 - 87	High
Exchangeable Acidity	meq/100g	**0.0 (0.0%CEC)**	13 - 20 %CEC	Very Low
Aluminium Saturation	%	**0.00**		
Ca:Mg Ratio	(ratio)	**5.96**	3 - 5	High
K:Mg Ratio	(ratio)	**0.6**	0.3 - 0.5	High

ASPAC

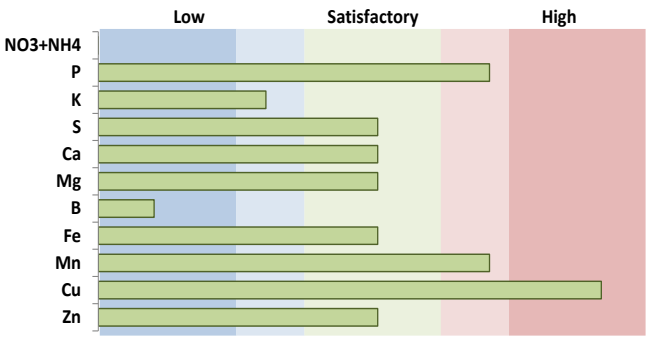
This laboratory has been awarded a Certificate of Proficiency for specific soil and plant tissue analyses by the Australasian Soil and Plant Analysis Council (ASPAC). Tests for which proficiency has been demonstrated are highlighted in this report by an * next to the analyte name.

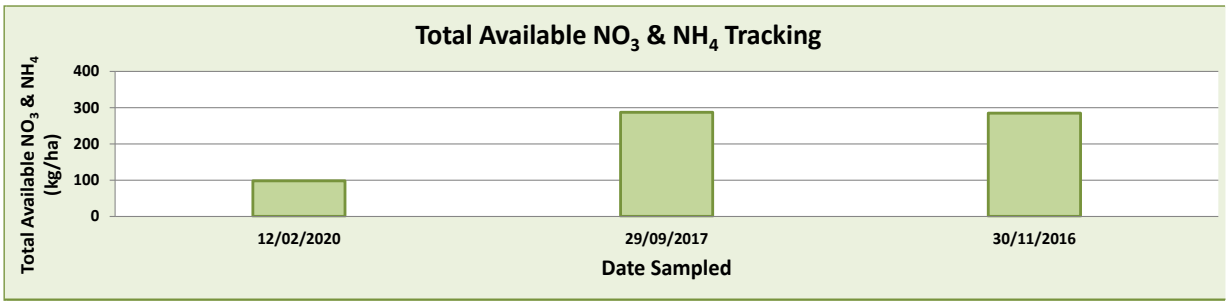
BESTPRACTICE CERTIFICATION ISO9001 QUALITY MANAGEMENT SYSTEM

Nutrient Status and Imbalances*

BLOCK A (Sampled: 12/02/2020)

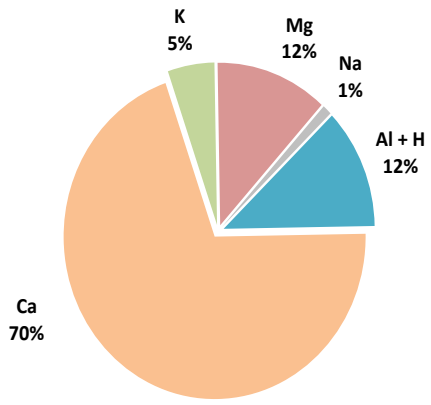
Analyte	Desired Level (kg/ha)	Measured Level (kg/ha)
NO3 + NH4		98.3
Phosphorus	43.7	69.3
Potassium	217.0	146.6
Sulphur	19.18	16.11
Calcium	1816.7	1431.3
Magnesium	222.0	240.0
Boron	2.8	0.4
Iron	97.56	87.04
Manganese	29.6	56.9
Copper	4.2	10.0
Zinc	4.4	4.8





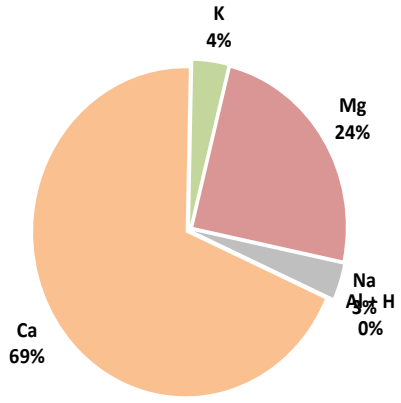
Soil Cation Ratio (as % CECe)

Desirable Levels



*Values are means of optimal ranges.

Measured Levels



Recommendations:

BLOCK A (Sampled: 12/02/2020)

RECOMMENDATIONS:

Recommended Soil Ameliorant Applications

Product	Timing	Rate (kg/ha)	Application method	Comments

Recommended Fertiliser Applications

Product	Timing	Rate (kg/ha)	Application	N	P	K	S	Ca	Mg

Total nutrient application (kg/ha):