HORTUS TECHNICAL SERVICES

W2-COMPLETE WATER TEST

Client Information

Organisation	AG-PLUS PTY LTD	**Analysis Request No.**	H 739 W2
Name	TIM O'DEA	**Date Sampled**	28/3/2013
Agent Phone	(07) 4154 4872	**Purchase Order Number**	1017
Email	tim@agplushealth.com;simon@agplushealth.	**The Bill for this account will be sent to:**	320 BOURBONG STREET BUNDABERG QLD 4670
Grower		**Region**	World
Block Reference	Water	**Recommendation by**	
Payment Status	To be billed	**Recommendation Type**	
Report No.	HTS1824835-28032013	**Date of Report**	2/04/2013

Field Information

Crop	Default	**Soil Texture**	Default	**Soil Drainage**	
Variety	Default	**Soil Structure**		**Water Stress**	
Crop Stage	Default	**Irrigation Type**		**Water Stress Type**	
Plant Per Hectare	0	**Soil Colour**		**Preferred Application**	
Yield Goal	0.00	**Treatment Area**	0	**Preferred Product Range**	

Method	Element	LOD	Result	Units	Optimal Range	Comment
	pH		6.0		5 - 8.5	Optimal
	E.C		0.11	mS/cm		
G3a	Nitrate-N (water)		0.5	mg/L	0.5 - 10	Optimal
	Phosphate-P		0.07	mg/L	0.5 - 2	Low
L3b	Potassium (water)		1.0	mg/L	0.5 - 15	Optimal
L1b	Calcium (water)		6.0	mg/L	10 - 60	Low
L2b	Magnesium (water)		2.0	mg/L	10 - 100	Low
L4b	Sodium (water)		11.0	mg/L	20 - 150	Low
J1a	Sulfate-S (water)		3.1	mg/L	5 - 50	Low
K1a	Zinc (water)		0.01	mg/L	0.5 - 2	Low
K1a	Copper (water)		0.01	mg/L	0.02 - 0.2	Low
K1a	Manganese (water)		0.09	mg/L	0.2 - 0.5	Low
K3b	Iron (water)		6.85	mg/L	0.01 - 0.3	V.High
K5	Boron (water)		0.02	mg/L	0.02 - 0.5	Medium-low
E1a	Chloride (water)		31.0	mg/L	20 - 350	Optimal

The method of chemical test(s) included in this document are traceable to:
GE Rayment and FR Higginson: Australian Laboratory Handbook of soil and water chemical methods, Inkarta Press Melbourne, 1992
GE Rayment and DJ Lyons: Soil Chemical Methods - Australasia, CSIRO Publishing Collingwood, 2011
B Cartwright, KG Tiller, BA Zarcinas and LR Spouncer: The chemical assessment of the boron status in soils. Aust. J. Soil Res. 21,321-32, 1983
MB C Haysom and GK Kingston: Soil analysis for predicting sugar cane response to silicon. Proc of the Australian Society of Sugar Cane Technologists, Poster Papers 21, 498, 1999
DW Nelson and LE Sommers: Total Carbon, Organic Carbon and Organic Matter in Methods of Soil Analysis, Part 2, Chemical and Microbiological Properties, 2nd ed. 539-577, 1982. Note: OC result may be affected by soils with high chloride content.
Soil Analysis: an interpretation manual Edited by K.I. Peverill, L.A. Sparrow and D.J. Reuter Published by CSIRO Publishing, 1999
Chemical Thresholds pertaining to Region, Soil type, Crop, Crop Stage, Sample Type and Analyte are displayed as the optimal range
Measurement Uncertainties for accredited analytes are available on request.

ASPAC

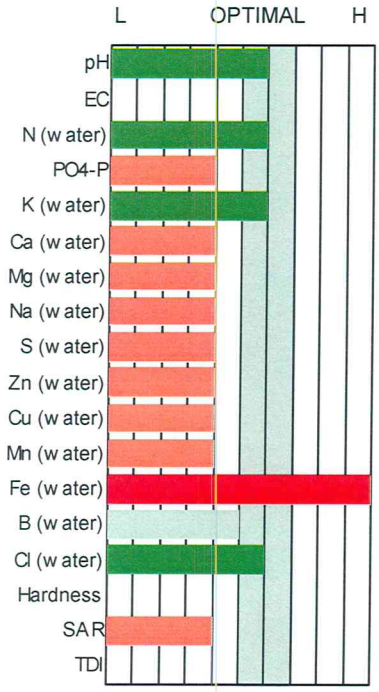
"This laboratory has been awarded a Certificate of Proficiency for specific soil and plant tissue analyses by the Australasian Soil and Plant Analysis Council (ASPAC). Tests for which proficiency has been demonstrated are highlighted in each report." * indicates elemental analysis certified by ASPAC

Signatory

Carol Cobb - Analyst

Calculated Results

Method	Element	LOD	Result	Units	Optimal Range	Comment
HTSCALC	Hardness		23.2	mg/L as CaCO3	150 - 300	Soft
HTSCALC	Sodium Absortion Ratio		1.0		2 - 10	Low
HTSCALC	Total Dissolved Ions		70.4	mg/L	175 - 500	Class 1



Complete Water Analysis
Locked Bag 3901 or Unit 1, 336 Goodwood Road. Bundaberg QLD 4670
ph: 07 4132 5000 Fax: 07 4151 7498
www.hortus.net.au techservices@hortus.net.au

AgPro