

Analysis Results (SOIL)

Customer	JOHN SWEET SAL	Distributor	SAFE ANALYTICAL
Sample Ref	S190005 INSIDE THE BEACON	Date Received	18/09/2019 (Date Issued: 20/09/2019)
Sample No	B110352A / SCH2098		
Crop	DATA ONLY		

Analysis	Result
pH [1:5 H2O]	6.0
pH [1:5 CaCl2]	4.6
Organic Matter (%)	3.2
CEC (meq/100g)	5.30
EC [1:5 H2O] (dS/m)	0.02
NO3-N (ppm)	3.0
NH4/N (ppm)	1.0
Phosphorus [Olsen] (ppm)	4
Potassium[Am. Acet.] (meq/100g)	0.31
Calcium[Am. Acet.] (meq/100g)	3.16
Magnesium[Am. Acet.] (meq/100g)	1.33
Sulphur [MCP] (ppm)	5
Boron[CaCl2] (ppm)	0.2
Copper [DTPA] (ppm)	0.7
Iron [DTPA] (ppm)	120
Manganese [DTPA] (ppm)	4.4
Zinc [DTPA] (ppm)	3.2
Sodium[Am. Acet.] (meq/100g)	0.1
Aluminium[KCl] (meq/100g)	0.41
Chloride (ppm)	52
Ca base saturation (%)	59.6
K base saturation (%)	5.8
Mg base saturation (%)	25.1
Na base saturation (%)	1.7



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Analysis	Result
Al base saturation (%)	7.80
Ca:Mg Ratio	2.4
Texture	SANDY LOAM
Colour	DARK GREY
Aluminium (ppm)	37.0
Sodium (ppm)	21.0
Calcium (ppm)	633.0
Magnesium (ppm)	159.0
Potassium (ppm)	120.0
Lime Requirement (t/ha)	< 0.50

Additional Comments

Soil analyses performed and reported on samples dried at 40°C and sieved to <2mm; Plant tissue analyses performed and reported on samples dried at 70°C and ground (NB/ Fruit, Fruitlet & Tuber reported on fresh weight basis)

Please Note

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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 with an asterisk.



Quality Checked: per Rob Cirocco (Lab Manager) – RC

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Phosyn Analytical Pty Ltd - Lab Methods

<i>Soil Analysis - Analysis performed on samples dried at 40°C and ground to <2mm</i>	Method Code
Ammonium-N	03-S04
Boron (CaCl ₂)	03-S08
CEC (Cation Exchange Capacity)	03-S06
Chloride	03-S04
Colour and Texture	03-S15
Phosphorus BSES	03-S12
Phosphorus Colwell	03-S13
Phosphorus Olsen	03-S11
PBI unadjusted	03-S14
EC (1:5 H ₂ O)	03-S02
Exchangeable Aluminium (1M KCl)	03-S10
Exchangeable Calcium (1M Ammonium Acetate)	03-S06
Exchangeable Magnesium (1M Ammonium Acetate)	03-S06
Exchangeable Potassium (1M Ammonium Acetate)	03-S06
Exchangeable Sodium (1M Ammonium Acetate)	03-S06
Extractable Copper (DTPA)	03-S07
Extractable Iron (DTPA)	03-S07
Extractable Manganese (DTPA)	03-S07
Extractable Zinc (DTPA)	03-S07
Extractable Sulphur (MCP)	03-S09
Nitrate-N	03-S04
Organic Matter	03-S01
pH (1:5 CaCl ₂)	03-S03
pH (1:5 H ₂ O)	03-S02
Total N	03-S16

<i>Plant Analysis - Analysis performed on plant tissue dried at 70°C and ground</i>	Method Code
Aluminium	03-P01
Boron	03-P01
Calcium	03-P01
Cobalt	03-P01
Copper	03-P01
Iron	03-P01
Magnesium	03-P01
Manganese	03-P01
Molybdenum	03-P01
Nitrogen	03-P02
Phosphorus	03-P01
Potassium	03-P01
Sodium	03-P01
Sulphur	03-P02
Zinc	03-P01
Chloride	03-S04
Nitrate	03-S04



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Sample No B110352B / SCH2099
Crop DATA ONLY

Analysis	Result
pH [1:5 H2O]	5.9
pH [1:5 CaCl2]	4.5
Organic Matter (%)	2.7
CEC (meq/100g)	4.45
EC [1:5 H2O] (dS/m)	0.02
NO3-N (ppm)	1.0
NH4/N (ppm)	1.0
Phosphorus [Olsen] (ppm)	3
Potassium[Am. Acet.] (meq/100g)	0.20
Calcium[Am. Acet.] (meq/100g)	2.61
Magnesium[Am. Acet.] (meq/100g)	1.18
Sulphur [MCP] (ppm)	3
Boron[CaCl2] (ppm)	0.1
Copper [DTPA] (ppm)	0.7
Iron [DTPA] (ppm)	133
Manganese [DTPA] (ppm)	6.6
Zinc [DTPA] (ppm)	1.7
Sodium[Am. Acet.] (meq/100g)	< 0.1
Aluminium[KCl] (meq/100g)	0.38
Chloride (ppm)	37
Ca base saturation (%)	58.7
K base saturation (%)	4.6
Mg base saturation (%)	26.5
Na base saturation (%)	1.6



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Crop DATA ONLY

Analysis	Result
Al base saturation (%)	8.50
Ca:Mg Ratio	2.2
Texture	SANDY LOAM
Colour	DARK GREY
Aluminium (ppm)	34.0
Sodium (ppm)	< 18.4
Calcium (ppm)	523.0
Magnesium (ppm)	142.0
Potassium (ppm)	80.0
Lime Requirement (t/ha)	< 0.50

Additional Comments

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Extractable Iron (DTPA)	03-S07
Extractable Manganese (DTPA)	03-S07
Extractable Zinc (DTPA)	03-S07
Extractable Sulphur (MCP)	03-S09
Nitrate-N	03-S04
Organic Matter	03-S01
pH (1:5 CaCl ₂)	03-S03
pH (1:5 H ₂ O)	03-S02
Total N	03-S16

<i>Plant Analysis - Analysis performed on plant tissue dried at 70°C and ground</i>	Method Code
Aluminium	03-P01
Boron	03-P01
Calcium	03-P01
Cobalt	03-P01
Copper	03-P01
Iron	03-P01
Magnesium	03-P01
Manganese	03-P01
Molybdenum	03-P01
Nitrogen	03-P02
Phosphorus	03-P01
Potassium	03-P01
Sodium	03-P01
Sulphur	03-P02
Zinc	03-P01
Chloride	03-S04
Nitrate	03-S04