

# AUSTRALIAN PERRY AGRICULTURAL LABORATORY

PO Box 327, 489 The Parade, Magill SA 5072  
Tel: 08 8332 0199 Fax: 08 8361 2715 Email: info@apal.com.au

## Members AIAST, AAAC

Date: 1/04/2008  
Crop: **Navels**  
Sample ID: **BLK 5**

Reporting Consultant: APAL

Client's Name: **CITRUS GROVE**

	<b>RATIOS BETWEEN ELEMENTS</b>				
	<b>DESIRED</b>			<b>FOUND</b>	
N/P	17.00	parts to 1		11.52	parts to 1
K/P	8.67	parts to 1		4.58	parts to 1
Ca/P	35.00	parts to 1		15.10	parts to 1
N/K	0.49	parts to 1		2.52	parts to 1
N/Ca	0.43	parts to 1		0.76	parts to 1
K/Mg	2.52	parts to 1		1.88	parts to 1
N/Ca & K/Mg	0.17	parts to 1		0.41	parts to 1
N/Mg	4.95	parts to 1		4.74	parts to 1
P/Mg	0.29	parts to 1		0.41	parts to 1
N/S	7.23	parts to 1		9.44	parts to 1

## COMMENTS & RECOMMENDATIONS

### GENERAL

All major nutrients are at good to high levels however there are some deficiencies in the trace elements - manganese and zinc in particular. Copper is marginal and also include some boron in the foliar as it helps in the uptake of calcium.

Sodium levels are good but chlorides are elevated - may be to do with irrigation management - apply a good leaching irrigation (+20%) if water is available.

### FERTILISER AND SOIL AMENDMENTS

Test the soil and broadcast any fertiliser and calcium (Lime, Gypsum or Dolomite ) required.

**Nitrogen:** Reduce the present program.

**General Foliar:** the elements below can be added to a good general foliar product.

**FOLIAR RECOMMENDATIONS:** Apply per hectare as a foliar in slow drying conditions. Late afternoon is ideal. Repeat every 21 days

GENERAL FOLIAR	Recommended Rates
COPPER SULPHATE	0.50 kg
ZINC SULPHATE	2.00 kg
MANGANESE SULPHATE	1.50 kg
SOLUBOR BORON (20%)	1.00 kg
MOLASSES	3.00 L

Commercial formulations  
can be used to replace  
any of these elements

Mix thoroughly before adding to spray tank. Clean gear following use. Do not leave over night