



**SWEP**  
PTY. LTD.

**ANALYTICAL  
LABORATORIES**

Tel: (03) 9701 6007

**REPORT ON SAMPLE OF WATER**

**FILE NO :** 2301173861

**DATE ISSUED :** 19/01/2023

MICROBIOLOGY LABS AUSTRALIA  
PO BOX 230  
MELROSE PARK DC, SA 5039

**CLIENT ID :** MIC017  
**PHONE :** 08 7127 8982

**REFERENCE :**

**REFERENCE ID :**

**PHONE :**

**DATE RECEIVED :** 12/01/2023

**SAMPLE ID :** 3582 - 1 - NSFF : Microtek Organics Kelp Cal Strengten

**ANALYSIS REQUIRED :** Full (WT-8)

ITEMS	ABBREVIATION	UNIT	RESULTS	UNIT	
TOTAL CALCIUM	Ca	ppm	6580	meq/litre	329
TOTAL MAGNESIUM	Mg	ppm	66.7	meq/litre	5.56
TOTAL SODIUM	Na	ppm	434	meq/litre	18.87
TOTAL POTASSIUM	K	ppm	489	meq/litre	12.54
TOTAL IRON	Fe	ppm	65.2		
TOTAL MANGANESE	Mn	ppm	0.401		
TOTAL ZINC	Zn	ppm	1.4		
TOTAL COPPER	Cu	ppm	0.768		
TOTAL CHLORIDE	Cl	ppm	11900		
TOTAL CARBONATE	CO <sub>3</sub>	ppm	ND		
TOTAL BICARBONATE	HCO <sub>3</sub>	ppm	481		
Electrical Conductivity		µS/cm	26000		
pH			6.13		
TOTAL SOLUBLE SALTS	TSS	ppm	19200		
TOTAL BORON	B	ppm	1.13		
NITROGEN as Nitrate	N	ppm	50.3		
NITROGEN as Nitrite	N	ppm	0.04		
TOTAL PHOSPHORUS	P	ppm	38.6		
TOTAL SULPHUR	S	ppm	146		
TOTAL CADMIUM	Cd	ppm	0.00381		
TOTAL LEAD	Pb	ppm	0.169		
TOTAL MERCURY	Hg	ppm	0.0293		
TOTAL ARSENIC	As	ppm	0.0375		
TOTAL NICKEL	Ni	ppm	0.145		
TOTAL CHROMIUM	Cr	ppm	0.399		
TOTAL TIN	Sn	ppm	0.102		
TOTAL HARDNESS AS CaCO <sub>3</sub>			16704.93		

< DL = Less than Detection Limit

ND = Not Detected

**Please refer to SWEP fact sheets for understanding your report:****No.1** Using Farm Water - How suitable is a water source for general farm use**No.2a,b** Water quality for Irrigation - Total Soluble Salt levels**No.3** Salt tolerance of plants - For assessing the suitability of various irrigated crops**No.4** Drinking water quality - How suitable is a water source for human consumption

These fact sheets should be accompanied with this report.

ITEMS	Analytical Methods
TOTAL CALCIUM	ICPAES
TOTAL MAGNESIUM	ICPAES
TOTAL SODIUM	ICPAES
TOTAL POTASSIUM	ICPAES
TOTAL IRON	Acid digestion, ICPAES
TOTAL MANGANESE	Acid digestion, ICPAES
TOTAL ZINC	Acid digestion, ICPAES
TOTAL COPPER	Acid digestion, ICPAES
TOTAL CHLORIDE	Titrimetric
TOTAL CARBONATE	Water 006*
TOTAL BICARBONATE	Water 006*
Electrical Conductivity	Direct reading
pH	Direct reading
TOTAL SOLUBLE SALTS	Calculation
TOTAL BORON	ICPAES
NITROGEN as Nitrate	Automated colour, Continuous Segmented Flow
NITROGEN as Nitrite	Adaptation of EPA Diazotization method 354.1
TOTAL PHOSPHORUS	ICPAES
TOTAL SULPHUR	ICPAES
TOTAL MOLYBDENUM	ICPAES
TOTAL CADMIUM	ICPAES
TOTAL LEAD	ICPAES
TOTAL MERCURY	ICPAES
TOTAL ARSENIC	ICPAES
TOTAL NICKEL	ICPAES
TOTAL CHROMIUM	ICPAES

\* Division of Agricultural Chemistry. Department of Agriculture, Victoria. Compiled by Fung, K.H.