

**SWEP**
PTY. LTD.**ANALYTICAL
LABORATORIES**

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FILE NO : 1808137243

DATE ISSUED : 22/08/2018

KISMET INTERNATIONAL PTY. LTD.
For And on Behalf Of Guano Australia P/L
4 SCHWARTZ STREET
BUDERIM , QLD 4556CLIENT ID : KISMET
PHONE : 07 5445 5300

REFERENCE : KISMET INTERNATIONAL PTY. LTD.

REFERENCE ID : KISMET
PHONE : 07 5445 5300

SAMPLE ID : Guano Gold-Kwik Start

DATE RECEIVED : 17/08/2018

ANALYSIS REQUIRED : Full (FT-2) Heavy Metals

SOURCE:

ITEMS	ABBREVIATION	UNIT	RESULTS	ANALYTICAL METHODS
TOTAL NITROGEN	N	%	0.029	Dumas method, 7A5*
TOTAL PHOSPHORUS	P	%	13.6	Acid digestion, ICPAES
TOTAL POTASSIUM	K	%	0.0472	Acid digestion, ICPAES
TOTAL SULPHUR	S	%	0.0634	Acid digestion, ICPAES
TOTAL CALCIUM	Ca	%	32.9	Acid digestion, ICPAES
TOTAL MAGNESIUM	Mg	%	0.21	Acid digestion, ICPAES
TOTAL SODIUM	Na	%	0.166	Acid digestion, ICPAES
TOTAL IRON	Fe	%	1.54	Acid digestion, ICPAES
TOTAL MANGANESE	Mn	ppm	429	Acid digestion, ICPAES
TOTAL ZINC	Zn	ppm	152	Acid digestion, ICPAES
TOTAL COPPER	Cu	ppm	50.3	Acid digestion, ICPAES
TOTAL COBALT	Co	ppm	11.9	Acid digestion, ICPAES
TOTAL BORON	B	ppm	85.3	Acid digestion, ICPAES
TOTAL MOLYBDENUM	Mo	ppm	1.08	Acid digestion, ICPAES
pH	1:5 Water		8.29	Method 4A1, water suspension*
Electrical Conductivity		µS/cm	171	Method 3A1, water extract*
TOTAL ORGANIC CARBON	OC	%	1	Method 6B2, LECO*
MOISTURE CONTENT	MC	%	2.95	Gravimetric method
CARBON / NITROGEN RATIO	C/N		34.48	Calculation
Chloride	Cl	ppm	46.9	Method 5A1, water extract*
TOTAL SELENIUM	Se	ppm	<DL	DL=0.002 Acid digestion, ICPAES
TOTAL CADMIUM	Cd	ppm	2.08	Acid digestion, ICPAES
TOTAL MERCURY	Hg	ppm	<DL	DL=0.0008 Acid digestion, ICPAES
TOTAL LEAD	Pb	ppm	2.61	Acid digestion, ICPAES
TOTAL ARSENIC	As	ppm	4.45	Acid digestion, ICPAES
TOTAL NICKEL	Ni	ppm w/w	4.15	Acid digestion, ICPAES
TOTAL CHROMIUM	Cr	ppm w/w	20.6	Acid digestion, ICPAES
Water Soluble Phosphorus	P	ppm	507	Water Extraction, ICPAES
Citrate Soluble Phosphorus	P	%	10.9	2% citric acid, ICPAES
Insoluble Phosphorus	P	%	2.7	Calculation
TOTAL SILICA	Si	%	23.8	Modified 13A1*
AVALILABLE CALCIUM	Ca	%	0.445	15D3
AVALILABLE PHOSPHORUS	P	ppm	97.2	Olsen extractable, 9C1

DL=Detection Limit

* Rayment, G.E. & Lyons, D.J. (2011). Soil Chemical Methods - Australasia. CSIRO Publishing, 150 Oxford Street, Collingwood Vic 3066, Australia