

ANALYTICAL REPORT: Water Leach

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To: GIY Hydroponics Trading as AQUIScience	Date of Request :20.05.2022	UIS Analytical Services Analytical Chemistry Laboratories 4, 6 Fax: (012) 665 4294
Attention: Ockle Scholtz		
Project ID:		
Site Location:		
Order No: n/a		

Certificate of analysis: 44906

Lims ID	Sample ID	Note: all results in parts per million (ppm) unless specified otherwise																												
		Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	Hg	Ho	Ir	K	La	Li	Mg	Mn	Mo	Na
	WATER LEACH 1:20	<0.001	0.001	<0.01	<0.001	<0.001	<0.001	<0.001	0.02	<0.0001	<0.001	<0.001	0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.06	<0.001	<0.001	<0.01	<0.001	<0.001	<0.01	<0.001
833815	Southern/Proteins/Boiler/Ash/13/05/2022/Water/Leach	<0.001	9.17	<0.01	0.001	0.499	0.178	<0.001	90.9	<0.0001	<0.001	<0.001	0.006	<0.001	<0.001	0.01	0.114	0.002	<0.001	<0.0001	<0.001	<0.001	0.48	<0.001	0.039	0.12	<0.001	0.004	1.43	<0.001
833815 QC	Duplicate	<0.001	9.26	<0.01	0.001	0.494	0.178	<0.001	87.6	<0.0001	<0.001	<0.001	0.006	<0.001	<0.001	<0.01	0.113	0.002	<0.001	<0.0001	<0.001	<0.001	0.53	<0.001	0.037	0.12	<0.001	0.005	1.49	<0.001
		pH	pH Temp	TDS	EC	TDS by Sum	TDS by EC	P Alk.	M Alk.	F	Cl	NO2	NO3	NO3 as N	PO4	SO4	Sum of Cations	Sum of Anions	Ion Balance	NH4	NH3	Acidity to pH8.3	CN (free)	CN (Total)	Cr 6+	TSS	TOC			
	WATER LEACH 1:20		Deg C	mg/l	mS/m	mg/l	mg/l	mg/l CaCO3	mg/l CaCO3	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	me/l	me/l	%	mg/l	mg/l	mg/l CaCO3	mg/l	mg/l	mg/l	mg/l	mg/l				
	Leach Blank	5.85	23.9	<30	0.25	n/a	1.8	<0.6	<3.5	<0.1	<0.25	<0.2	<0.3	<0.1	<0.8	0.57	n/a	n/a	n/a					<0.05						
833815	Southern/Proteins/Boiler/Ash/13/05/2022/Water/Leach	9.33	20.2	330	20.4	300	143	16.5	65.3	<0.1	14.3	<0.2	12.6	2.85	<0.8	122	5.7	4.42	12.8					<0.05						
833815 QC	Duplicate	9.18	21.0	318	20.5	296	143	15.9	66.0	<0.1	14.3	<0.2	12.6	2.84	<0.8	121	5.6	4.41	11.7					<0.05						
		Note: EC was repeated but still came up low.																												

Date: Analysed by:	14.06.2022 UIS Waterlab/MA Motsepe	Chemical elements:	Ag, Al, As, Au, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, Ge, Hf, Hg, Ho, Ir, K, La, Li, Mg, Mn, Mo, Na, Nb, Nd, Ni, Pb, Pt, Rb, Sb, Sc, Se, Si, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr
		Instrument:	ICP-MS Perkin Elmer NexION 300D Ion Chromatography Spectrophotometer Ion Selective Probe
		Date:	20.06.2022
		Authorised:	JJ Oberholzer



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Lims ID	Sample ID	Nd	Ni	Pb	Pt	Rb	Sb	Sc	Se	Si	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	WATER LEACH 1:20	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
	Leach Blank	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.01	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001
833815	Southern/Proteins/Boiler/Ash/13/05/2022/Water/Leach	<0.001	0.004	<0.001	0.001	0.002	0.003	0.002	0.004	2.55	<0.001	1.29	<0.001	<0.001	0.0001	<0.01	<0.001	<0.0001	0.028	0.013	<0.001	<0.001	<0.001
833815 QC	Duplicate	<0.001	0.004	<0.001	<0.001	0.002	0.003	0.002	0.005	2.55	<0.001	1.32	<0.001	<0.001	<0.0001	<0.01	<0.001	0.0001	0.029	0.012	<0.001	<0.001	<0.001
	WATER LEACH 1:20																						
	Leach Blank																						
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