



ALS Canada Ltd.

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To: **GOLDCORP KAMINAK LTD**
SUITE 3400 - 666 BURRARD STREET
VANCOUVER BC V6C 2X8

Page: 1
Total # Pages: 5 (A - C)
Plus Appendix Pages
Finalized Date: 25-OCT-2018
Account: KAMGOL

CERTIFICATE VA18239028

Project: Coffee

P.O. No.: KGC-18-1543

This report is for 121 Drill Core samples submitted to our lab in Whitehorse, YT,
Canada on 18-SEP-2018.

The following have access to data associated with this certificate:

THOMAS BISSIG
IAN HERBRANSON
TIM SMITH

TOM BOKENFOHR
ERIK SCHEEL
MATT ZAGO

CASEY CARDINAL
JAMES SCOTT

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-32m	Pulverize 500g - 85%<75um
BAG-01	Bulk Master for Storage
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Au-AA13	Au by cyanide leach and AAS	AAS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS VA18239028

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	Au-AA13 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm
		0.02	0.001	0.03	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
Y016950		0.10	6.07	NSS	1.2	2.53	532	10	110	<0.5	<2	2.02	0.5	45	807	104
Y016951		1.24	0.004		<0.2	0.50	58	<10	100	0.7	<2	1.30	<0.5	2	7	4
Y016952		1.20	0.003		<0.2	0.83	147	<10	80	1.0	<2	0.53	<0.5	4	10	6
Y016953		2.08	0.002		<0.2	0.62	97	<10	60	0.8	<2	0.85	<0.5	2	8	5
Y016954		2.70	0.003		<0.2	1.01	90	<10	90	1.3	<2	3.61	<0.5	7	10	5
Y016955		4.62	0.003		<0.2	1.52	228	<10	170	1.4	<2	1.38	<0.5	7	17	10
Y016956		1.96	<0.001		<0.2	1.33	160	<10	120	1.0	<2	1.82	<0.5	8	14	2
Y016957		2.46	0.002		<0.2	0.88	246	<10	90	0.8	<2	1.37	<0.5	14	9	5
Y016958		2.42	<0.001		<0.2	0.76	243	<10	90	0.7	<2	0.65	<0.5	5	10	5
Y016959		2.78	<0.001		<0.2	0.83	163	<10	90	0.6	<2	0.14	<0.5	3	9	3
Y016960		0.10	<0.001		<0.2	1.77	2	<10	140	<0.5	<2	1.01	<0.5	10	23	97
Y016961		2.56	<0.001		<0.2	0.56	98	<10	50	<0.5	<2	0.23	<0.5	2	5	2
Y016962		1.90	<0.001		<0.2	0.75	59	<10	60	0.6	<2	1.71	<0.5	3	8	2
Y016963		2.32	<0.001		<0.2	0.96	71	<10	70	0.9	<2	2.08	<0.5	4	12	1
Y016964		2.14	<0.001		<0.2	0.85	141	<10	50	0.7	<2	1.10	<0.5	4	8	2
Y016965		3.02	0.004		<0.2	0.63	398	<10	60	0.8	<2	0.29	<0.5	8	9	4
Y016966		2.20	<0.001		<0.2	0.76	239	<10	80	0.8	<2	1.42	<0.5	6	9	4
Y016967		2.12	<0.001		<0.2	0.58	390	<10	110	0.6	<2	1.20	<0.5	5	8	2
Y016968		2.58	<0.001		<0.2	0.69	55	<10	80	0.7	<2	3.27	<0.5	5	9	1
Y016969		2.54	0.001		<0.2	0.56	57	<10	80	0.6	54	1.18	<0.5	2	6	3
Y016970		0.10	1.055	1.13	0.3	3.12	33	10	120	<0.5	<2	2.11	<0.5	14	113	120
Y016971		2.38	<0.001		<0.2	0.52	67	<10	70	0.5	3	1.18	<0.5	2	5	10
Y016972		1.92	0.015		0.2	0.48	118	<10	70	0.5	8	1.37	<0.5	6	7	87
Y016973		1.44	0.002		<0.2	0.59	85	<10	80	0.8	<2	6.33	<0.5	4	18	7
Y016974		1.56	0.006		<0.2	0.41	125	<10	100	1.2	<2	11.9	<0.5	4	16	9
Y016976		2.54	0.003		<0.2	0.46	155	<10	70	0.7	<2	6.9	<0.5	3	5	5
Y016977		2.08	<0.001		<0.2	0.77	29	<10	60	0.7	<2	2.10	<0.5	6	29	5
Y016978		1.60	<0.001		<0.2	1.37	50	10	110	1.5	<2	6.23	<0.5	31	209	24
Y016979		1.04	<0.001		<0.2	1.68	54	10	170	1.7	<2	6.04	<0.5	27	195	38
Y016980		0.10	<0.001		<0.2	1.76	2	10	140	<0.5	<2	1.01	<0.5	9	24	95
Y016981		1.52	0.002		<0.2	0.93	290	<10	80	1.7	<2	9.8	<0.5	17	125	55
Y016982		1.70	<0.001		<0.2	0.55	83	<10	80	0.8	<2	3.32	<0.5	6	7	67
Y016983		1.22	<0.001		<0.2	1.88	74	<10	200	1.4	<2	2.28	<0.5	14	30	20
Y016984		2.24	<0.001		<0.2	3.70	38	10	1090	2.3	<2	4.81	<0.5	32	261	22
Y016985		2.32	<0.001		<0.2	1.14	39	<10	210	0.9	<2	3.00	<0.5	8	34	10
Y016986		1.14	<0.001		<0.2	0.72	84	<10	30	0.8	<2	5.40	<0.5	9	50	4
Y016987		0.76	<0.001		<0.2	0.80	75	<10	50	0.8	<2	4.71	<0.5	9	61	6
Y016988		2.46	0.014		<0.2	0.62	103	<10	40	0.6	<2	4.63	<0.5	9	14	4
Y016989		2.18	<0.001		<0.2	0.66	96	<10	50	0.7	<2	2.60	<0.5	9	10	29
Y016990		0.10	8.53	3.93	5.8	1.84	38	10	170	<0.5	<2	1.08	2.8	14	30	1860



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CERTIFICATE OF ANALYSIS VA18239028

Sample Description	Method Analyte Units LOD	ME-ICP41 Fe %	ME-ICP41 Ga ppm	ME-ICP41 Hg ppm	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %	ME-ICP41 Sb ppm	ME-ICP41 Sc ppm
		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
Y016950		7.58	10	<1	0.61	10	2.73	1310	6	0.07	483	470	20	1.00	4	6
Y016951		0.94	<10	<1	0.20	30	0.08	240	<1	0.02	3	100	2	<0.01	4	2
Y016952		1.59	<10	<1	0.28	20	0.25	251	<1	0.03	4	240	3	<0.01	8	3
Y016953		1.27	<10	<1	0.18	30	0.12	191	1	0.03	2	120	3	<0.01	5	3
Y016954		2.03	<10	<1	0.45	20	0.42	391	<1	0.01	7	370	5	0.01	6	5
Y016955		2.88	<10	<1	0.62	20	0.71	417	<1	0.02	7	450	6	0.01	15	6
Y016956		2.38	<10	1	0.50	20	0.55	339	<1	0.01	7	510	11	0.01	5	6
Y016957		1.60	<10	<1	0.22	20	0.15	294	<1	<0.01	6	480	10	0.01	4	6
Y016958		1.42	<10	1	0.23	30	0.11	308	<1	<0.01	7	730	7	0.01	11	3
Y016959		1.02	<10	<1	0.22	30	0.10	168	<1	<0.01	4	430	5	0.01	11	2
Y016960		3.37	<10	<1	0.23	10	0.79	455	5	0.20	12	550	2	0.02	4	3
Y016961		0.62	<10	<1	0.07	40	0.03	135	<1	<0.01	2	70	4	0.01	3	1
Y016962		0.87	<10	<1	0.23	40	0.14	150	1	<0.01	6	660	5	0.01	<2	2
Y016963		1.37	<10	<1	0.38	30	0.31	254	<1	0.01	7	760	6	0.01	2	2
Y016964		1.15	<10	<1	0.25	40	0.16	211	<1	0.01	6	760	5	0.01	5	2
Y016965		2.41	<10	<1	0.23	30	0.06	273	1	<0.01	6	410	10	0.01	12	3
Y016966		2.15	<10	<1	0.30	30	0.08	468	1	<0.01	5	400	6	0.01	7	2
Y016967		1.63	<10	<1	0.14	20	0.05	566	1	<0.01	6	380	5	0.01	12	4
Y016968		1.98	<10	1	0.20	20	0.09	542	1	<0.01	6	340	6	0.01	3	4
Y016969		1.76	<10	1	0.31	30	0.06	305	1	<0.01	3	50	15	0.01	2	1
Y016970		3.00	10	<1	0.22	10	1.37	417	4	0.38	127	370	12	0.06	3	3
Y016971		0.88	<10	<1	0.26	30	0.04	286	<1	<0.01	3	40	11	0.01	3	<1
Y016972		1.29	<10	<1	0.25	30	0.15	249	1	<0.01	5	70	12	0.01	6	1
Y016973		1.92	<10	<1	0.16	20	1.20	633	1	0.01	11	50	7	0.03	2	1
Y016974		2.54	<10	1	0.12	10	2.16	741	<1	0.01	12	30	10	0.01	5	2
Y016976		1.37	<10	1	0.17	20	0.22	369	<1	<0.01	7	120	7	0.01	5	1
Y016977		1.23	<10	<1	0.21	20	0.80	246	<1	<0.01	25	30	4	0.01	2	2
Y016978		4.36	<10	1	0.40	10	4.03	933	<1	0.02	167	60	5	0.05	4	16
Y016979		4.29	10	<1	0.81	10	3.34	955	<1	0.01	148	120	8	0.06	3	15
Y016980		3.34	<10	1	0.22	10	0.78	452	5	0.20	12	550	2	0.02	<2	3
Y016981		2.60	<10	<1	0.13	10	1.69	751	<1	0.01	80	120	7	0.02	7	11
Y016982		1.77	<10	<1	0.23	40	1.13	353	1	0.01	15	330	9	0.11	7	2
Y016983		3.62	10	<1	1.22	40	1.74	363	2	0.02	16	510	8	0.04	3	8
Y016984		6.62	10	<1	3.06	20	4.84	842	1	0.02	82	860	12	0.23	3	25
Y016985		2.14	<10	<1	0.46	30	1.40	310	1	0.01	15	230	6	0.06	2	5
Y016986		2.46	<10	<1	0.07	30	1.91	414	1	0.01	17	230	8	0.08	2	8
Y016987		2.13	<10	<1	0.08	30	1.56	365	1	<0.01	16	240	7	0.08	4	8
Y016988		2.09	<10	<1	0.09	30	1.60	444	1	<0.01	9	260	9	0.08	3	4
Y016989		1.87	<10	<1	0.12	30	0.88	240	1	<0.01	8	200	7	0.34	5	4
Y016990		3.78	10	<1	0.24	10	0.92	606	25	0.21	167	550	311	0.45	7	3



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Page: 2 - C
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CERTIFICATE OF ANALYSIS VA18239028

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Th	Ti	Ti	U	V	W
		ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
Y016950		68	<20	0.09	<10	<10	80	<10
Y016951		22	20	<0.01	<10	<10	3	<10
Y016952		22	20	0.02	<10	<10	11	<10
Y016953		21	20	0.01	<10	<10	6	<10
Y016954		44	<20	0.04	<10	<10	17	<10
Y016955		27	20	0.04	<10	<10	26	<10
Y016956		24	<20	0.04	<10	<10	25	<10
Y016957		20	20	0.01	<10	<10	16	<10
Y016958		18	20	0.01	<10	<10	12	<10
Y016959		10	30	0.01	<10	<10	9	<10
Y016960		85	<20	0.15	<10	<10	95	<10
Y016961		8	30	<0.01	<10	<10	3	<10
Y016962		32	30	0.01	<10	<10	6	<10
Y016963		49	30	0.02	<10	<10	10	<10
Y016964		28	30	0.01	<10	<10	9	<10
Y016965		12	20	<0.01	<10	<10	13	<10
Y016966		18	20	0.01	<10	<10	9	<10
Y016967		20	<20	<0.01	<10	<10	14	<10
Y016968		35	<20	<0.01	<10	<10	12	<10
Y016969		18	20	<0.01	<10	<10	3	<10
Y016970		99	<20	0.11	<10	<10	72	<10
Y016971		14	30	<0.01	<10	<10	2	<10
Y016972		20	20	<0.01	<10	<10	3	<10
Y016973		105	<20	<0.01	<10	<10	9	<10
Y016974		180	<20	<0.01	<10	<10	13	<10
Y016976		65	20	<0.01	<10	<10	5	<10
Y016977		64	20	<0.01	<10	<10	13	<10
Y016978		353	<20	0.04	<10	<10	97	<10
Y016979		342	<20	0.08	<10	<10	95	<10
Y016980		85	<20	0.16	<10	<10	94	<10
Y016981		209	<20	<0.01	<10	<10	56	<10
Y016982		132	20	0.01	<10	<10	10	<10
Y016983		74	20	0.10	<10	<10	43	<10
Y016984		176	<20	0.22	<10	<10	155	<10
Y016985		109	20	0.03	<10	<10	27	<10
Y016986		188	20	<0.01	<10	<10	40	<10
Y016987		163	20	<0.01	<10	<10	41	<10
Y016988		166	20	<0.01	<10	<10	25	<10
Y016989		87	<20	<0.01	<10	10	14	<10
Y016990		84	<20	0.14	<10	<10	94	<10



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	Au-AA13 Au ppm 0.03	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
Y016991		2.18	0.018		<0.2	0.86	702	10	430	1.1	<2	3.00	<0.5	15	38	49
Y016992		2.26	0.004		<0.2	0.72	323	<10	440	0.9	2	2.69	0.6	14	35	52
Y016993		1.88	0.096		<0.2	0.62	715	<10	220	0.7	<2	2.53	<0.5	6	23	21
Y016994		2.58	0.001		<0.2	0.82	284	<10	130	1.1	<2	2.20	<0.5	14	33	45
Y016995		2.00	<0.001		<0.2	0.71	256	<10	120	0.8	<2	2.35	<0.5	10	18	35
Y016996		1.06	0.006		<0.2	0.61	845	<10	140	0.8	<2	2.25	<0.5	12	29	71
Y016997		1.46	0.130		0.7	0.46	1095	10	190	0.7	3	2.75	0.9	14	25	89
Y016998		1.56	0.488	0.21	0.4	0.35	1990	10	270	1.1	<2	3.58	0.5	12	40	61
Y016999		2.40	0.001		<0.2	0.47	244	10	590	0.8	<2	4.27	0.8	16	21	24
Y017000		0.10	<0.001		<0.2	1.75	2	10	140	<0.5	<2	1.00	<0.5	10	24	100
Y017001		1.04	0.229		0.8	0.49	2420	10	120	1.0	<2	3.81	24.6	18	23	49
Y017002		1.80	0.040		0.2	0.45	1145	10	80	1.0	<2	3.90	0.5	22	25	91
Y017003		1.78	<0.001		<0.2	0.62	344	<10	150	0.7	<2	1.67	<0.5	9	9	38
Y017004		2.10	0.052		<0.2	0.68	1135	10	160	1.0	<2	2.48	<0.5	8	16	15
Y017005		2.04	<0.001		<0.2	0.67	369	<10	50	0.7	<2	1.27	<0.5	4	4	15
Y017006		2.30	<0.001		<0.2	0.75	292	<10	280	0.8	<2	2.52	<0.5	13	43	45
Y017007		1.96	<0.001		<0.2	0.90	369	<10	120	0.8	<2	3.01	<0.5	9	21	25
Y017008		1.56	0.007		<0.2	0.54	403	<10	90	0.7	<2	2.34	<0.5	10	14	38
Y017009		1.44	0.003		<0.2	0.73	254	10	70	1.2	<2	2.93	<0.5	14	25	32
Y017010		0.10	0.145		0.2	0.76	79	10	280	0.5	<2	13.3	0.8	4	17	10
Y017011		2.06	<0.001		<0.2	2.66	87	<10	360	1.5	<2	4.13	<0.5	33	33	49
Y017012		2.04	<0.001		<0.2	2.21	28	<10	430	0.6	<2	2.44	<0.5	24	42	29
Y017013		2.76	0.001		<0.2	2.16	46	<10	320	2.1	<2	3.15	<0.5	31	111	83
Y017014		1.44	0.002		<0.2	1.29	2350	10	110	2.2	<2	4.84	<0.5	27	9	72
Y017015		1.70	<0.001		<0.2	1.45	35	<10	200	<0.5	<2	1.36	<0.5	18	12	79
Y017016		1.86	<0.001		<0.2	1.78	85	<10	260	<0.5	<2	1.27	<0.5	20	14	75
Y017017		2.02	<0.001		<0.2	1.59	36	<10	230	0.7	<2	2.88	<0.5	17	18	52
Y017018		2.16	<0.001		<0.2	2.03	181	<10	160	2.3	<2	2.11	<0.5	29	24	172
Y017019		2.72	<0.001		<0.2	1.03	99	<10	320	2.4	<2	8.5	<0.5	27	30	66
Y017020		0.10	<0.001		<0.2	1.83	<2	<10	150	<0.5	<2	1.05	<0.5	10	24	103
Y017021		2.52	<0.001		<0.2	0.92	1450	10	250	1.9	<2	6.65	<0.5	30	18	79
Y017022		3.34	<0.001		<0.2	2.70	22	<10	100	2.2	<2	3.20	<0.5	25	10	66
Y017023		3.20	<0.001		<0.2	1.58	10	<10	220	1.1	<2	3.32	<0.5	23	16	48
Y017024		2.44	<0.001		0.3	1.15	36	<10	170	0.8	<2	3.18	<0.5	68	16	410
Y017025		2.66	0.013		1.5	0.72	106	<10	60	<0.5	<2	1.69	0.7	139	24	2430
Y017026		2.18	<0.001		<0.2	1.07	4	<10	30	<0.5	<2	1.43	<0.5	14	21	20
Y017027		2.42	<0.001		<0.2	0.97	7	<10	60	0.8	<2	3.31	<0.5	27	20	80
Y017028		2.32	<0.001		<0.2	0.99	7	<10	60	<0.5	<2	1.09	<0.5	18	20	90
Y017029		2.58	<0.001		<0.2	1.59	3	<10	170	<0.5	<2	1.60	<0.5	25	22	58
Y017030		0.10	3.06	2.72	0.7	2.50	161	<10	170	<0.5	<2	1.81	0.5	27	425	83



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Page: 3 - B
Total # Pages: 5 (A - C)
Plus Appendix Pages
Finalized Date: 25-OCT-2018
Account: KAMGOL

Project: Coffee

CERTIFICATE OF ANALYSIS VA18239028

Sample Description	Method Analyte Units LOD	ME-ICP41 Fe %	ME-ICP41 Ga ppm	ME-ICP41 Hg ppm	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %	ME-ICP41 Sb ppm	ME-ICP41 Sc ppm
		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
Y016991		3.32	<10	<1	0.18	20	0.85	585	2	<0.01	40	750	13	0.47	15	9
Y016992		3.57	<10	<1	0.16	30	0.57	561	3	<0.01	47	760	18	0.25	15	8
Y016993		2.29	<10	<1	0.15	40	0.48	433	2	<0.01	18	460	8	0.12	7	4
Y016994		3.15	<10	<1	0.24	30	0.62	513	2	<0.01	43	800	7	0.18	6	6
Y016995		2.67	<10	<1	0.17	30	0.54	615	2	<0.01	27	550	13	0.09	6	4
Y016996		3.31	<10	<1	0.17	20	0.31	554	2	<0.01	44	990	10	0.02	27	5
Y016997		3.79	<10	<1	0.17	10	1.12	707	3	<0.01	40	600	31	0.48	13	5
Y016998		3.32	<10	<1	0.16	10	1.57	657	2	0.01	42	120	15	0.65	16	6
Y016999		4.26	<10	<1	0.24	10	2.37	844	1	0.01	33	170	13	0.23	8	7
Y017000		3.39	<10	<1	0.23	10	0.79	459	5	0.20	13	570	3	0.02	2	3
Y017001		3.44	<10	<1	0.21	10	1.52	821	8	0.01	40	170	397	0.96	55	5
Y017002		4.93	<10	<1	0.17	10	0.74	828	3	0.01	43	560	14	0.32	33	4
Y017003		2.87	<10	1	0.23	40	0.42	404	2	0.01	17	420	6	0.11	4	2
Y017004		2.74	<10	<1	0.21	40	0.81	368	2	0.01	18	650	6	0.58	5	4
Y017005		1.94	<10	<1	0.15	50	0.27	223	2	<0.01	4	350	7	0.10	5	2
Y017006		2.90	<10	<1	0.22	30	0.48	430	3	<0.01	35	1220	10	0.10	6	7
Y017007		2.72	<10	<1	0.23	30	0.28	485	2	<0.01	26	650	9	0.02	5	5
Y017008		2.73	<10	1	0.15	30	0.47	436	3	<0.01	31	940	10	0.04	8	4
Y017009		3.86	<10	<1	0.20	30	0.94	509	2	<0.01	37	920	8	0.18	4	8
Y017010		1.08	<10	<1	0.39	10	3.56	225	3	0.03	22	280	8	0.03	22	3
Y017011		4.39	10	1	1.28	10	2.40	778	<1	0.03	37	410	4	0.53	3	16
Y017012		3.46	<10	<1	1.15	<10	2.15	572	<1	0.05	27	240	<2	0.14	3	9
Y017013		3.96	<10	1	0.57	10	1.59	644	<1	0.04	39	680	4	0.37	5	22
Y017014		3.10	<10	1	0.28	10	2.05	571	1	0.02	16	40	6	0.63	12	22
Y017015		2.00	<10	<1	0.60	<10	1.43	322	<1	0.05	15	40	<2	0.07	<2	5
Y017016		2.31	<10	<1	0.84	<10	1.61	341	<1	0.06	12	40	<2	0.10	<2	5
Y017017		2.60	<10	<1	0.59	<10	2.02	528	<1	0.05	15	80	<2	0.10	2	7
Y017018		2.79	<10	<1	0.40	<10	1.42	435	<1	0.03	25	40	3	0.20	4	18
Y017019		4.17	<10	<1	0.08	10	2.85	960	<1	0.01	20	40	5	0.12	4	27
Y017020		3.48	<10	<1	0.23	10	0.81	471	5	0.21	12	580	4	0.02	<2	3
Y017021		3.74	<10	1	0.17	10	2.43	845	<1	0.01	24	110	10	0.37	10	28
Y017022		3.58	<10	<1	0.69	10	1.97	429	<1	0.03	15	40	6	0.10	9	22
Y017023		2.96	<10	<1	0.67	<10	1.97	579	1	0.04	14	50	3	0.06	3	11
Y017024		2.80	<10	<1	0.47	<10	1.56	474	<1	0.03	14	120	5	0.77	3	8
Y017025		4.18	<10	<1	0.18	<10	1.07	289	<1	0.01	55	60	2	3.18	<2	3
Y017026		1.36	<10	<1	0.13	<10	1.19	271	<1	0.03	11	50	3	0.05	<2	3
Y017027		1.53	<10	<1	0.20	<10	1.23	342	1	0.02	12	30	3	0.19	2	8
Y017028		1.12	<10	<1	0.22	<10	1.01	171	<1	0.02	17	30	<2	0.13	<2	3
Y017029		1.75	<10	<1	0.85	<10	1.79	331	3	0.03	17	40	2	0.23	<2	3
Y017030		4.95	10	<1	0.53	10	2.12	841	5	0.16	239	360	18	0.34	3	5



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Page: 3 - C
Total # Pages: 5 (A - C)
Plus Appendix Pages
Finalized Date: 25-OCT-2018
Account: KAMGOL

Project: Coffee

CERTIFICATE OF ANALYSIS VA18239028

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Th	Ti	Ti	U	V	W
		ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
Y016991		108	<20	<0.01	<10	10	56	<10
Y016992		79	<20	<0.01	<10	10	60	<10
Y016993		90	20	<0.01	<10	10	25	<10
Y016994		76	<20	0.01	<10	<10	53	<10
Y016995		68	<20	<0.01	<10	<10	29	<10
Y016996		83	<20	<0.01	<10	<10	52	<10
Y016997		191	<20	<0.01	<10	<10	34	<10
Y016998		511	<20	<0.01	<10	<10	29	<10
Y016999		299	<20	<0.01	<10	10	29	<10
Y017000		83	<20	0.16	<10	<10	96	<10
Y017001		418	<20	<0.01	<10	<10	29	<10
Y017002		202	<20	<0.01	<10	10	29	<10
Y017003		94	20	<0.01	<10	20	12	<10
Y017004		135	20	<0.01	<10	20	24	<10
Y017005		74	30	<0.01	<10	30	7	<10
Y017006		105	<20	0.01	<10	<10	71	<10
Y017007		91	<20	0.01	<10	<10	36	<10
Y017008		91	<20	<0.01	<10	<10	27	<10
Y017009		188	<20	0.01	<10	<10	44	<10
Y017010		159	<20	0.02	<10	<10	52	10
Y017011		209	<20	0.07	<10	10	97	<10
Y017012		143	<20	0.11	<10	<10	80	<10
Y017013		198	<20	0.06	<10	<10	85	<10
Y017014		277	<20	<0.01	<10	<10	50	<10
Y017015		66	<20	0.04	<10	<10	27	<10
Y017016		58	<20	0.05	<10	<10	29	<10
Y017017		120	<20	0.03	<10	<10	27	<10
Y017018		133	<20	0.02	<10	<10	41	<10
Y017019		243	<20	<0.01	<10	<10	87	<10
Y017020		87	<20	0.16	<10	<10	98	<10
Y017021		273	<20	<0.01	<10	<10	97	<10
Y017022		224	<20	0.02	<10	<10	66	<10
Y017023		190	<20	0.04	<10	<10	39	<10
Y017024		209	<20	0.03	<10	<10	35	<10
Y017025		219	<20	0.02	<10	<10	36	<10
Y017026		159	<20	0.02	<10	<10	20	<10
Y017027		175	<20	0.01	<10	<10	23	<10
Y017028		53	<20	0.02	<10	<10	15	<10
Y017029		69	<20	0.03	<10	<10	24	<10
Y017030		90	<20	0.11	<10	<10	72	<10



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Page: 4 - A
Total # Pages: 5 (A - C)
Plus Appendix Pages
Finalized Date: 25-OCT-2018
Account: KAMGOL

Project: Coffee

CERTIFICATE OF ANALYSIS VA18239028

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	Au-AA13 Au ppm 0.03	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
Y017031		2.30	<0.001		<0.2	1.49	3	<10	140	<0.5	<2	1.00	<0.5	19	14	40
Y017032		2.68	<0.001		<0.2	1.85	7	<10	210	1.0	<2	1.86	<0.5	17	29	34
Y017033		2.04	<0.001		<0.2	0.78	65	<10	60	1.2	<2	5.45	<0.5	18	49	21
Y017034		1.94	<0.001		<0.2	0.77	50	<10	90	0.8	<2	2.60	<0.5	12	30	15
Y017035		2.48	<0.001		<0.2	2.71	7	<10	300	1.6	<2	3.91	<0.5	20	31	19
Y017036		2.78	<0.001		<0.2	2.48	2	<10	460	1.2	<2	3.20	<0.5	32	23	90
Y017037		1.98	<0.001		0.2	2.60	10	<10	480	1.7	<2	4.15	<0.5	29	25	114
Y017038		1.68	<0.001		0.2	0.81	67	<10	440	1.2	<2	6.09	<0.5	17	16	22
Y017039		1.60	<0.001		<0.2	0.67	62	<10	400	0.8	<2	5.17	<0.5	5	6	10
Y017040		0.10	<0.001		<0.2	1.76	<2	<10	140	<0.5	<2	1.01	<0.5	10	24	98
Y017041		2.32	<0.001		<0.2	2.62	39	<10	460	2.4	<2	4.06	<0.5	33	35	60
Y017042		2.56	<0.001		<0.2	0.38	45	<10	440	0.7	2	3.42	<0.5	9	7	13
Y017043		1.16	<0.001		<0.2	0.24	95	<10	90	0.6	<2	5.04	<0.5	6	2	2
Y017044		1.28	<0.001		<0.2	0.81	56	<10	210	1.4	<2	7.5	<0.5	18	20	27
Y017045		1.66	<0.001		<0.2	0.78	52	<10	40	1.4	<2	11.4	<0.5	22	42	37
Y017046		1.20	<0.001		0.2	0.56	51	<10	60	1.1	<2	12.3	0.5	16	129	12
Y017047		0.86	<0.001		<0.2	0.74	47	<10	40	1.1	<2	12.1	<0.5	15	136	11
Y017048		1.02	0.002		<0.2	0.91	371	<10	40	1.4	<2	9.3	<0.5	19	75	26
Y017049		0.86	0.003		<0.2	0.40	3810	<10	150	1.0	<2	6.17	0.8	21	22	24
Y017050		0.10	0.935	0.93	4.5	2.68	19	<10	170	<0.5	<2	1.95	0.9	16	102	282
Y017051		1.50	0.011		<0.2	0.70	1640	<10	110	1.0	<2	5.33	<0.5	19	38	37
Y017052		1.96	<0.001		<0.2	1.00	175	<10	60	1.3	<2	3.00	<0.5	22	58	34
Y017053		2.06	<0.001		<0.2	2.64	39	<10	400	1.5	<2	1.67	<0.5	21	82	51
Y017054		2.04	<0.001		<0.2	2.16	12	<10	230	0.5	<2	1.54	<0.5	18	15	53
Y017055		2.42	<0.001		<0.2	2.26	4	<10	150	<0.5	<2	1.46	<0.5	23	15	67
Y017056		2.62	<0.001		<0.2	1.91	11	<10	270	<0.5	<2	1.27	<0.5	22	16	64
Y017057		2.34	<0.001		<0.2	2.07	4	<10	190	<0.5	<2	1.26	<0.5	31	23	79
Y017058		2.60	<0.001		<0.2	2.01	3	<10	270	0.7	<2	1.91	<0.5	27	29	74
Y017059		2.60	<0.001		<0.2	1.99	4	<10	270	<0.5	<2	1.79	<0.5	20	23	57
Y017060		0.10	<0.001		<0.2	1.77	<2	<10	150	<0.5	<2	1.02	<0.5	9	24	97
Y017061		2.44	<0.001		<0.2	2.39	4	<10	150	<0.5	<2	1.44	<0.5	21	25	43
Y017062		2.00	<0.001		<0.2	2.47	30	<10	170	<0.5	<2	1.80	<0.5	29	23	92
Y017063		2.88	<0.001		<0.2	2.44	91	<10	200	<0.5	<2	2.71	<0.5	25	22	63
Y017064		2.30	0.174		<0.2	2.05	7430	10	180	1.3	<2	3.99	<0.5	29	18	84
Y017065		2.98	<0.001		<0.2	2.39	18	<10	290	0.9	<2	3.09	<0.5	22	24	77
Y017066		2.54	<0.001		<0.2	2.29	7	<10	580	<0.5	<2	1.34	<0.5	19	28	34
Y017067		2.32	<0.001		<0.2	2.87	12	<10	420	1.4	<2	1.99	<0.5	18	35	15
Y017068		2.16	<0.001		<0.2	1.88	5	<10	290	0.7	<2	0.98	<0.5	13	55	21
Y017069		2.26	<0.001		<0.2	1.54	8	<10	190	0.8	<2	1.87	<0.5	15	61	28
Y017070		0.10	9.16	3.82	5.8	1.89	39	10	180	<0.5	2	1.13	3.3	14	32	1790



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Page: 4 - B
Total # Pages: 5 (A - C)
Plus Appendix Pages
Finalized Date: 25-OCT-2018
Account: KAMGOL

Project: Coffee

CERTIFICATE OF ANALYSIS VA18239028

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		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
Y017031		1.70	<10	<1	0.69	<10	1.41	244	1	0.04	9	40	<2	0.23	<2	3
Y017032		2.96	<10	<1	0.81	<10	1.56	465	1	0.03	15	310	3	0.24	2	9
Y017033		3.32	<10	<1	0.12	30	1.92	584	1	0.01	42	180	8	0.43	3	11
Y017034		2.42	<10	<1	0.23	40	0.87	356	1	0.01	22	210	7	0.39	3	5
Y017035		5.00	10	<1	2.18	20	2.88	821	<1	0.03	12	470	14	0.41	3	23
Y017036		4.98	10	<1	1.58	<10	2.23	821	<1	0.04	11	280	7	0.54	<2	12
Y017037		5.76	10	<1	1.34	10	2.13	880	1	0.03	13	430	11	0.54	4	25
Y017038		3.44	<10	<1	0.10	30	2.12	723	<1	0.01	9	100	8	0.25	5	19
Y017039		2.01	<10	<1	0.12	50	1.70	379	1	0.01	4	80	8	0.13	<2	3
Y017040		3.36	10	<1	0.24	10	0.77	455	5	0.19	11	550	2	<0.01	<2	3
Y017041		5.92	10	<1	1.32	<10	2.35	977	<1	0.01	14	230	9	0.27	8	35
Y017042		2.33	<10	<1	0.14	20	1.10	513	<1	<0.01	4	180	14	0.34	5	7
Y017043		1.53	<10	<1	0.12	20	1.63	493	<1	0.01	4	180	8	0.22	5	2
Y017044		3.26	<10	<1	0.12	30	2.61	783	<1	0.01	20	700	13	0.18	7	20
Y017045		3.99	<10	<1	0.06	10	3.80	911	<1	0.01	41	70	8	0.20	8	18
Y017046		3.34	<10	<1	0.04	<10	4.59	844	<1	0.02	73	30	10	0.01	5	10
Y017047		3.17	<10	<1	0.05	<10	4.42	839	<1	0.02	70	40	9	0.01	5	10
Y017048		3.99	<10	<1	0.07	<10	3.28	850	<1	0.01	42	130	18	0.21	24	17
Y017049		9.41	<10	1	0.05	<10	1.81	938	1	0.01	28	60	10	0.13	236	15
Y017050		3.04	10	<1	0.17	10	1.53	549	5	0.28	146	350	203	0.11	2	3
Y017051		4.36	<10	1	0.04	10	1.37	647	1	0.01	27	170	9	0.08	69	16
Y017052		3.25	<10	<1	0.13	30	0.85	415	<1	<0.01	42	360	8	0.27	8	13
Y017053		4.93	10	<1	1.52	40	1.52	579	<1	0.01	51	450	6	0.54	5	12
Y017054		2.97	<10	<1	0.50	10	1.45	512	<1	0.07	8	380	2	0.14	2	6
Y017055		2.96	<10	<1	0.61	<10	1.71	501	<1	0.08	6	260	<2	0.18	<2	8
Y017056		2.98	<10	<1	0.74	<10	1.53	469	1	0.07	6	190	<2	0.32	<2	7
Y017057		3.60	<10	<1	0.68	<10	1.78	530	1	0.08	11	200	<2	0.63	<2	7
Y017058		3.80	10	<1	1.46	10	1.86	562	1	0.04	12	330	4	0.86	<2	6
Y017059		2.72	<10	<1	0.88	10	1.73	467	1	0.06	13	220	2	0.19	<2	5
Y017060		3.40	10	<1	0.23	10	0.80	456	5	0.20	13	570	3	0.02	<2	3
Y017061		3.14	<10	<1	0.62	<10	1.97	512	<1	0.09	12	260	<2	0.12	<2	8
Y017062		3.99	<10	<1	0.69	10	1.98	568	1	0.07	13	430	<2	0.62	<2	8
Y017063		3.87	<10	<1	0.93	<10	2.21	683	1	0.07	10	250	2	0.29	<2	9
Y017064		5.35	<10	1	0.99	10	2.46	911	1	0.03	10	350	7	1.59	13	18
Y017065		4.47	10	<1	1.29	10	2.15	690	1	0.05	12	410	3	0.56	3	16
Y017066		3.61	10	<1	1.58	20	1.85	450	1	0.05	7	530	3	0.47	<2	7
Y017067		4.25	10	<1	2.17	20	2.44	613	<1	0.03	16	780	5	0.20	<2	11
Y017068		3.17	10	<1	1.42	30	1.35	482	1	0.02	39	410	4	0.12	<2	5
Y017069		3.09	<10	<1	1.10	30	1.23	495	1	0.02	48	490	6	0.24	<2	6
Y017070		3.77	10	<1	0.24	10	0.93	605	25	0.21	167	560	321	0.44	4	3



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Page: 4 - C
Total # Pages: 5 (A - C)
Plus Appendix Pages
Finalized Date: 25-OCT-2018
Account: KAMGOL

Project: Coffee

CERTIFICATE OF ANALYSIS VA18239028

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Th	Ti	Ti	U	V	W
		ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
Y017031		82	<20	0.04	<10	<10	28	<10
Y017032		83	<20	0.04	<10	<10	37	<10
Y017033		119	<20	<0.01	<10	<10	54	<10
Y017034		79	20	0.01	<10	<10	29	<10
Y017035		226	<20	0.18	<10	<10	99	<10
Y017036		169	<20	0.14	<10	<10	96	<10
Y017037		205	<20	0.12	<10	<10	130	<10
Y017038		128	<20	<0.01	<10	<10	78	<10
Y017039		114	<20	<0.01	<10	<10	10	<10
Y017040		81	<20	0.15	<10	<10	95	<10
Y017041		200	<20	0.06	<10	<10	142	<10
Y017042		231	<20	<0.01	<10	<10	39	<10
Y017043		218	20	<0.01	<10	<10	20	<10
Y017044		325	<20	<0.01	<10	<10	137	<10
Y017045		285	<20	<0.01	<10	<10	105	<10
Y017046		391	<20	<0.01	<10	<10	63	<10
Y017047		391	<20	<0.01	<10	<10	63	<10
Y017048		204	<20	<0.01	<10	<10	76	<10
Y017049		149	<20	<0.01	<10	<10	65	<10
Y017050		77	<20	0.10	<10	<10	65	<10
Y017051		121	<20	<0.01	<10	<10	70	<10
Y017052		78	<20	0.01	<10	<10	68	<10
Y017053		80	<20	0.15	<10	<10	81	<10
Y017054		60	<20	0.07	<10	<10	50	<10
Y017055		47	<20	0.07	<10	<10	52	<10
Y017056		41	<20	0.09	<10	<10	57	<10
Y017057		44	<20	0.09	<10	<10	57	<10
Y017058		94	<20	0.13	<10	<10	60	<10
Y017059		88	<20	0.08	<10	<10	47	<10
Y017060		84	<20	0.16	<10	<10	98	<10
Y017061		39	<20	0.08	<10	<10	61	<10
Y017062		43	<20	0.10	<10	<10	60	<10
Y017063		86	<20	0.10	<10	<10	83	<10
Y017064		207	<20	0.05	<10	<10	80	<10
Y017065		86	<20	0.12	<10	<10	73	<10
Y017066		62	<20	0.19	<10	<10	70	<10
Y017067		95	<20	0.21	<10	<10	99	<10
Y017068		44	<20	0.16	<10	<10	47	<10
Y017069		54	<20	0.12	<10	<10	41	<10
Y017070		87	<20	0.14	<10	<10	96	<10



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Page: 5 - A
Total # Pages: 5 (A - C)
Plus Appendix Pages
Finalized Date: 25-OCT-2018
Account: KAMGOL

Project: Coffee

CERTIFICATE OF ANALYSIS VA18239028

Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	Au-AA13	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr
		kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.02	0.001	0.03	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1
Y017071		2.06	<0.001		<0.2	1.80	5	<10	240	0.7	<2	1.65	<0.5	15	61
															36



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Page: 5 - B
Total # Pages: 5 (A - C)
Plus Appendix Pages
Finalized Date: 25-OCT-2018
Account: KAMGOL

Project: Coffee

CERTIFICATE OF ANALYSIS VA18239028

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb
		% 0.01	ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2
Y017071		3.66	10	<1	1.25	30	1.38	514	1	0.03	45	460	6	0.33	<2



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Page: 5 - C
Total # Pages: 5 (A - C)
Plus Appendix Pages
Finalized Date: 25-OCT-2018
Account: KAMGOL

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CERTIFICATE OF ANALYSIS VA18239028

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Th	Ti	Ti	U	V	W	Zn
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		1	20	0.01	10	10	1	10	2
Y017071		55	<20	0.13	<10	<10	48	<10	46



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 25-OCT-2018
Account: KAMGOL

Project: Coffee

CERTIFICATE OF ANALYSIS VA18239028

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: NSS is non-sufficient sample.
ALL METHODS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-AA13	Au-ICP21	BAG-01	CRU-31
CRU-QC	LOG-21	LOG-23	ME-ICP41
PUL-32m	PUL-QC	SPL-21	WEI-21