



ALS Canada Ltd.

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

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Plus Appendix Pages
Finalized Date: 25-OCT-2018
Account: KAMGOL

CERTIFICATE VA18239035

Project: Coffee

P.O. No.: KGC-18-1545

This report is for 128 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 VA18239035

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
Y017200		0.08	<0.001		<0.2	1.77	2	<10	150	<0.5	<2	1.02	<0.5	9	24	100
Y017201		1.70	<0.001		<0.2	2.84	8	<10	890	1.2	2	3.21	<0.5	22	100	14
Y017202		2.30	1.075	0.66	<0.2	0.54	1325	<10	60	0.6	2	1.62	<0.5	6	33	5
Y017203		2.14	7.89	1.26	0.7	0.46	3460	10	70	0.7	2	0.98	<0.5	4	5	5
Y017204		1.04	3.73	0.15	0.5	0.49	4170	10	50	0.9	3	0.69	<0.5	4	6	4
Y017205		1.12	2.55	0.12	0.5	0.55	4220	10	90	0.9	2	0.64	<0.5	4	7	4
Y017206		2.34	0.316	<0.03	<0.2	0.47	2920	<10	260	0.6	3	1.21	<0.5	4	6	5
Y017207		1.90	0.002		<0.2	0.59	70	<10	400	0.5	2	2.84	<0.5	4	6	4
Y017208		1.92	0.012		<0.2	0.51	41	<10	50	<0.5	<2	1.42	<0.5	3	7	2
Y017209		2.18	0.013		<0.2	0.46	88	<10	50	<0.5	2	1.11	<0.5	3	5	4
Y017210		0.08	1.155	1.00	0.2	2.93	31	<10	120	<0.5	2	2.05	<0.5	14	112	115
Y017211		2.28	0.009		<0.2	0.65	77	<10	60	<0.5	<2	1.78	<0.5	4	7	2
Y017212		2.06	0.030		<0.2	0.55	1370	<10	350	<0.5	2	2.02	<0.5	4	6	2
Y017213		2.14	0.011		<0.2	0.59	252	<10	70	0.5	2	0.91	<0.5	4	5	2
Y017214		2.32	0.014		<0.2	0.82	231	<10	90	0.5	5	0.67	<0.5	5	12	3
Y017215		1.76	0.017		<0.2	0.72	341	<10	70	0.6	6	0.19	<0.5	8	15	3
Y017216		2.10	0.021		<0.2	0.54	244	<10	100	0.7	4	1.80	<0.5	7	11	4
Y017217		2.10	0.003		<0.2	0.86	78	<10	370	0.5	3	1.70	<0.5	6	12	3
Y017218		2.46	<0.001		<0.2	0.77	12	<10	340	<0.5	3	1.31	<0.5	5	15	3
Y017219		2.42	<0.001		<0.2	1.96	5	<10	300	0.6	4	1.60	<0.5	13	53	8
Y017220		0.10	<0.001		<0.2	1.80	<2	<10	150	<0.5	<2	1.05	<0.5	9	25	98
Y017221		1.82	<0.001		<0.2	1.26	8	<10	460	0.6	3	2.09	<0.5	7	22	6
Y017222		1.84	0.032		<0.2	0.59	450	<10	490	0.8	2	2.64	<0.5	8	15	10
Y017223		2.18	0.017		<0.2	0.55	246	<10	100	0.7	3	1.06	<0.5	5	8	4
Y017224		1.62	0.001		<0.2	0.46	158	<10	400	<0.5	<2	1.15	<0.5	2	7	6
Y017225		1.26	0.005		<0.2	0.48	159	<10	490	<0.5	<2	1.05	<0.5	2	5	2
Y017226		2.18	0.008		<0.2	0.55	234	<10	150	0.6	3	2.68	<0.5	6	7	3
Y017227		2.32	<0.001		<0.2	0.76	26	<10	180	0.7	2	1.66	<0.5	6	13	4
Y017228		2.26	0.001		<0.2	0.89	41	<10	630	0.7	2	1.25	<0.5	5	10	4
Y017229		1.88	0.014		<0.2	0.87	255	<10	200	0.8	<2	0.88	<0.5	6	9	3
Y017230		0.10	8.41	4.78	5.9	1.92	39	10	170	<0.5	3	1.15	3.1	15	32	1820
Y017231		2.00	0.009		<0.2	1.11	91	<10	460	1.0	<2	0.71	<0.5	6	12	5
Y017232		2.32	0.002		<0.2	0.80	452	<10	190	0.9	2	1.40	<0.5	5	10	4
Y017233		2.16	0.496	0.47	<0.2	0.31	1065	10	130	0.6	2	3.38	<0.5	3	4	4
Y017234		1.04	0.623	0.61	<0.2	0.34	1020	10	160	0.6	<2	5.27	<0.5	3	9	2
Y017235		1.48	1.415	1.24	<0.2	0.20	300	<10	50	0.5	2	7.6	<0.5	1	7	2
Y017236		1.28	3.21	3.16	0.3	0.16	327	<10	70	<0.5	<2	0.68	<0.5	3	8	4
Y017237		2.34	0.707	0.69	0.3	0.35	423	10	180	0.5	<2	0.32	<0.5	4	9	4
Y017238		2.46	0.998	1.00	<0.2	0.26	375	<10	160	<0.5	2	0.98	<0.5	5	7	2
Y017239		2.18	0.777	0.60	0.2	0.28	179	10	70	<0.5	<2	0.63	<0.5	4	5	2



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CERTIFICATE OF ANALYSIS VA18239035

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
Y017200		3.42	10	<1	0.23	10	0.80	459	5	0.21	11	560	4	0.02	<2	3
Y017201		3.90	10	<1	1.37	20	2.76	795	1	0.03	43	870	3	0.12	<2	10
Y017202		2.17	<10	<1	0.34	40	0.46	328	2	0.01	10	400	10	0.41	7	2
Y017203		1.77	<10	1	0.30	40	0.37	296	2	0.01	5	290	12	0.99	4	1
Y017204		1.79	<10	1	0.29	50	0.28	169	3	0.01	6	270	12	1.37	8	1
Y017205		1.80	<10	1	0.31	60	0.25	168	3	0.01	7	290	12	1.29	6	1
Y017206		1.54	<10	<1	0.24	40	0.44	256	1	0.01	5	260	12	0.81	5	1
Y017207		1.65	<10	1	0.22	50	0.88	404	1	0.01	4	300	7	0.11	2	1
Y017208		1.47	<10	<1	0.21	50	0.39	248	1	0.01	4	320	4	0.25	<2	1
Y017209		1.40	<10	<1	0.23	50	0.25	281	1	0.01	3	220	6	0.21	2	1
Y017210		2.90	10	<1	0.21	10	1.33	405	4	0.35	124	360	12	0.06	<2	3
Y017211		1.76	<10	1	0.18	50	0.53	319	4	0.01	3	180	8	0.26	<2	1
Y017212		1.82	<10	1	0.18	40	0.62	298	1	0.01	4	230	9	0.58	2	1
Y017213		1.51	<10	1	0.17	60	0.17	299	1	0.01	3	350	5	0.09	3	1
Y017214		1.73	<10	<1	0.22	50	0.15	244	1	0.01	5	460	5	0.04	3	2
Y017215		1.93	<10	<1	0.18	40	0.10	239	1	0.01	6	570	7	0.04	5	3
Y017216		2.56	<10	1	0.16	40	0.11	460	1	0.01	9	450	6	0.07	4	3
Y017217		2.23	<10	<1	0.19	60	0.37	655	1	0.02	5	340	2	0.07	<2	3
Y017218		2.04	10	<1	0.25	50	0.48	316	1	0.02	5	430	2	0.10	<2	2
Y017219		3.29	10	<1	0.75	30	1.67	552	<1	0.04	19	790	5	0.26	2	5
Y017220		3.42	10	1	0.23	10	0.80	464	5	0.21	13	570	4	0.05	<2	3
Y017221		2.49	10	<1	0.57	40	0.87	490	1	0.03	10	560	3	0.31	<2	3
Y017222		2.38	<10	<1	0.27	40	0.64	564	2	0.01	15	490	8	0.33	3	3
Y017223		2.02	<10	<1	0.20	50	0.15	299	1	0.01	8	440	7	0.14	4	1
Y017224		0.86	<10	1	0.22	50	0.10	214	<1	0.01	1	130	11	0.14	<2	<1
Y017225		0.95	<10	<1	0.20	40	0.24	249	<1	0.01	1	140	14	0.13	<2	<1
Y017226		2.18	<10	<1	0.21	40	0.44	431	1	0.01	6	410	8	0.16	5	2
Y017227		2.09	<10	<1	0.36	50	0.64	390	1	0.03	8	540	8	0.25	<2	2
Y017228		2.15	<10	<1	0.43	60	0.52	431	1	0.02	6	480	8	0.09	<2	2
Y017229		2.09	<10	<1	0.36	70	0.25	743	2	0.01	7	460	9	0.04	4	3
Y017230		3.77	10	1	0.24	10	0.93	618	26	0.23	169	560	322	0.44	4	3
Y017231		2.39	<10	<1	0.44	60	0.39	507	2	0.02	8	490	7	0.07	<2	3
Y017232		1.94	<10	<1	0.35	50	0.46	297	1	0.02	8	420	8	0.24	2	2
Y017233		1.70	<10	<1	0.18	30	0.19	674	1	0.01	3	230	6	0.12	18	1
Y017234		2.06	<10	1	0.22	40	0.20	684	1	0.01	2	270	5	0.01	37	1
Y017235		1.45	<10	<1	0.12	10	1.41	309	1	0.01	1	60	4	0.06	<2	1
Y017236		0.98	<10	<1	0.12	10	0.05	295	1	0.01	4	50	4	<0.01	3	1
Y017237		1.55	<10	<1	0.28	50	0.03	652	1	0.01	4	320	6	0.02	3	1
Y017238		1.27	<10	<1	0.20	30	0.08	618	1	0.01	3	220	5	0.03	2	1
Y017239		1.39	<10	<1	0.23	20	0.22	230	1	0.01	3	170	6	0.55	3	<1



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CERTIFICATE OF ANALYSIS VA18239035

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
Y017200		84	<20	0.15	<10	<10	97	<10
Y017201		122	<20	0.19	<10	<10	91	<10
Y017202		69	20	0.01	<10	<10	12	<10
Y017203		43	20	<0.01	<10	<10	3	<10
Y017204		29	20	<0.01	<10	<10	3	<10
Y017205		28	20	<0.01	<10	<10	3	<10
Y017206		42	20	<0.01	<10	<10	3	<10
Y017207		65	20	<0.01	<10	<10	5	<10
Y017208		36	20	<0.01	<10	<10	4	<10
Y017209		30	30	<0.01	<10	<10	3	<10
Y017210		92	<20	0.10	<10	<10	71	<10
Y017211		52	30	<0.01	<10	<10	5	<10
Y017212		70	20	<0.01	<10	<10	4	<10
Y017213		26	30	<0.01	<10	<10	6	<10
Y017214		18	30	<0.01	<10	<10	9	<10
Y017215		19	20	0.01	<10	<10	13	<10
Y017216		30	20	<0.01	<10	<10	15	<10
Y017217		49	30	0.01	<10	<10	16	<10
Y017218		62	20	0.02	<10	<10	21	<10
Y017219		82	<20	0.09	<10	<10	48	<10
Y017220		86	<20	0.16	<10	<10	98	<10
Y017221		69	20	0.06	<10	<10	20	<10
Y017222		58	20	0.01	<10	<10	11	<10
Y017223		27	20	<0.01	<10	<10	8	<10
Y017224		46	30	<0.01	<10	<10	3	<10
Y017225		39	30	<0.01	<10	<10	3	<10
Y017226		48	20	<0.01	<10	<10	10	<10
Y017227		54	20	0.02	<10	<10	12	<10
Y017228		32	20	0.03	<10	<10	11	<10
Y017229		20	20	0.02	<10	<10	12	<10
Y017230		88	<20	0.15	<10	<10	96	<10
Y017231		32	20	0.03	<10	<10	14	<10
Y017232		50	20	0.02	<10	<10	11	<10
Y017233		54	<20	<0.01	<10	<10	3	<10
Y017234		41	20	<0.01	<10	10	7	<10
Y017235		100	<20	<0.01	<10	10	5	<10
Y017236		21	<20	<0.01	<10	<10	3	<10
Y017237		22	20	<0.01	<10	<10	4	<10
Y017238		20	20	<0.01	<10	<10	3	<10
Y017239		41	20	<0.01	<10	<10	2	<10



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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
Y017240		0.10	0.006		<0.2	1.83	3	<10	150	<0.5	<2	1.06	<0.5	9	24	97
Y017241		2.22	0.140		<0.2	0.46	246	10	80	0.5	<2	1.47	<0.5	4	4	1
Y017242		2.16	0.164		0.2	0.42	572	10	460	0.5	3	2.13	<0.5	6	7	2
Y017243		2.28	0.451	0.27	0.2	0.43	574	10	50	0.5	2	3.86	0.8	13	3	2
Y017244		2.36	0.053		0.2	0.55	320	10	60	<0.5	3	3.24	0.6	12	5	2
Y017245		2.24	0.208		<0.2	0.50	2580	10	190	0.5	<2	6.67	1.1	19	18	1
Y017246		2.36	0.072		<0.2	0.53	1050	<10	190	0.6	3	5.76	0.9	19	26	2
Y017247		2.36	0.116		<0.2	0.59	622	10	50	0.5	<2	4.35	0.8	10	12	2
Y017248		1.14	1.140	1.09	0.3	1.10	1745	<10	130	1.2	3	4.40	<0.5	17	60	18
Y017249		1.04	0.613	0.50	0.2	0.97	1220	<10	130	1.2	3	4.59	0.5	16	50	13
Y017250		0.10	0.145		<0.2	0.75	81	10	270	0.5	<2	13.1	0.8	5	17	10
Y017251		2.34	0.006		<0.2	0.85	221	<10	130	0.8	<2	4.07	<0.5	18	45	8
Y017252		2.12	0.011		<0.2	0.60	248	<10	90	0.6	2	1.45	<0.5	7	14	12
Y017253		1.12	0.014		0.2	0.70	288	<10	80	0.6	4	0.74	<0.5	5	7	4
Y017254		1.00	0.013		<0.2	0.71	151	<10	60	0.6	<2	2.14	<0.5	6	15	6
Y017255		1.62	<0.001		<0.2	2.07	42	<10	480	1.9	2	3.54	<0.5	19	102	13
Y017256		1.68	0.023		<0.2	1.20	211	<10	220	1.2	<2	3.27	<0.5	18	45	21
Y017257		1.22	<0.001		<0.2	0.45	34	<10	320	0.5	<2	2.24	<0.5	5	12	9
Y017258		2.10	<0.001		<0.2	0.79	9	<10	120	0.5	3	1.26	<0.5	6	13	5
Y017259		2.32	0.002		<0.2	0.76	52	<10	430	0.5	2	1.26	<0.5	5	9	3
Y017260		0.10	<0.001		<0.2	1.81	<2	<10	140	<0.5	<2	1.05	<0.5	10	24	99
Y017261		2.26	0.002		<0.2	0.92	27	<10	160	0.8	<2	1.22	<0.5	5	14	6
Y017262		2.34	<0.001		<0.2	0.54	11	<10	400	0.6	4	1.72	<0.5	6	13	4
Y017263		2.22	<0.001		<0.2	0.36	58	<10	230	0.6	<2	2.44	<0.5	4	15	2
Y017264		2.28	<0.001		<0.2	0.63	12	<10	200	0.8	<2	1.68	<0.5	6	20	3
Y017265		2.38	<0.001		<0.2	1.08	73	<10	70	0.8	2	1.74	<0.5	7	18	8
Y017266		2.14	0.224		<0.2	0.75	1325	10	80	1.0	<2	3.04	<0.5	9	14	5
Y017267		2.14	<0.001		<0.2	0.72	39	<10	50	0.7	3	2.02	<0.5	3	5	5
Y017268		2.20	0.052		<0.2	0.69	47	<10	90	0.7	<2	1.27	<0.5	3	8	6
Y017269		2.12	0.575	0.13	<0.2	0.74	1050	<10	40	0.8	<2	1.05	<0.5	5	11	2
Y017270		0.10	2.95	2.80	0.6	2.45	150	<10	170	<0.5	<2	1.82	<0.5	26	425	84
Y017271		2.16	0.042		<0.2	0.69	546	<10	130	0.6	<2	0.88	<0.5	4	9	3
Y017272		2.22	0.003		<0.2	0.88	79	<10	80	0.9	<2	1.24	<0.5	4	10	2
Y017273		2.16	0.053		<0.2	0.79	66	<10	50	0.6	<2	1.33	<0.5	4	9	2
Y017274		2.36	<0.001		<0.2	0.64	11	<10	40	0.7	<2	0.96	<0.5	3	8	3
Y017275		2.14	<0.001		<0.2	0.95	11	<10	60	0.7	<2	0.95	<0.5	4	10	4
Y017276		2.20	0.001		<0.2	0.86	50	<10	100	0.7	<2	0.62	<0.5	4	9	4
Y017277		2.16	0.002		<0.2	1.20	75	<10	80	1.2	<2	0.74	<0.5	8	25	10
Y017278		2.46	0.001		<0.2	0.73	41	<10	80	0.7	<2	0.70	<0.5	3	9	4
Y017279		2.20	<0.001		0.2	0.59	9	<10	40	0.6	<2	1.25	<0.5	4	9	5



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SUITE 3400 - 666 BURNARD STREET
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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
Y017240		3.41	<10	<1	0.23	10	0.79	461	5	0.22	12	560	4	0.02	<2	3
Y017241		1.58	<10	<1	0.34	50	0.07	261	1	0.01	2	340	11	0.09	<2	1
Y017242		2.41	<10	1	0.32	30	0.19	302	2	0.01	7	500	14	0.40	<2	1
Y017243		2.80	<10	<1	0.33	20	0.98	624	3	0.01	8	670	20	1.03	<2	1
Y017244		2.68	<10	<1	0.40	20	1.07	583	3	0.01	7	650	17	1.16	<2	1
Y017245		4.11	<10	<1	0.31	10	2.82	1110	1	0.02	41	740	13	1.34	<2	5
Y017246		4.10	<10	<1	0.26	10	2.79	1110	1	0.02	49	790	8	0.83	<2	5
Y017247		2.67	<10	<1	0.32	20	1.61	753	1	0.01	24	530	9	0.83	<2	2
Y017248		3.87	<10	<1	0.55	20	0.88	663	1	0.01	29	770	12	0.29	5	12
Y017249		3.39	<10	1	0.46	20	0.94	711	1	0.01	28	690	9	0.36	3	10
Y017250		1.06	<10	<1	0.38	10	3.48	222	3	0.03	19	260	8	0.04	21	3
Y017251		2.80	<10	1	0.27	30	0.61	755	1	0.01	31	550	7	0.21	6	7
Y017252		1.74	<10	<1	0.20	40	0.15	390	1	0.01	10	410	6	0.08	5	3
Y017253		1.62	<10	<1	0.15	50	0.05	367	1	0.01	6	310	38	0.01	4	2
Y017254		2.27	<10	<1	0.20	40	0.07	265	1	0.01	16	540	6	0.06	2	3
Y017255		3.76	10	<1	0.96	30	2.40	791	1	0.03	126	1220	4	0.09	5	11
Y017256		3.22	<10	<1	0.68	30	1.78	648	1	0.02	79	880	8	0.58	3	7
Y017257		2.18	<10	<1	0.21	50	0.77	508	1	0.04	10	470	6	0.22	<2	2
Y017258		2.31	<10	<1	0.31	60	0.67	411	1	0.05	7	460	7	0.19	<2	3
Y017259		2.14	<10	<1	0.38	50	0.66	437	1	0.03	6	430	6	0.23	<2	2
Y017260		3.40	10	<1	0.23	10	0.79	457	5	0.22	12	550	5	0.02	<2	3
Y017261		2.31	<10	1	0.53	60	0.60	336	1	0.03	8	420	7	0.16	2	3
Y017262		2.70	<10	<1	0.30	50	0.89	575	<1	0.03	6	500	6	0.16	2	3
Y017263		2.73	<10	<1	0.20	40	0.75	611	<1	0.02	9	580	6	0.08	<2	4
Y017264		2.50	<10	<1	0.25	50	0.70	591	<1	0.04	9	440	5	0.16	<2	4
Y017265		2.56	10	<1	0.59	50	0.91	437	1	0.03	7	410	3	0.23	2	4
Y017266		2.50	<10	<1	0.37	40	1.25	526	1	0.01	7	400	7	0.84	3	4
Y017267		1.65	<10	<1	0.31	40	0.60	339	1	0.01	5	140	3	0.15	<2	2
Y017268		1.87	<10	<1	0.39	40	0.55	349	2	0.03	3	200	3	0.31	<2	2
Y017269		2.03	<10	<1	0.52	40	0.60	355	1	0.02	7	300	6	0.31	3	2
Y017270		5.02	10	<1	0.53	10	2.22	840	5	0.17	232	360	20	0.36	2	5
Y017271		1.86	<10	<1	0.43	50	0.52	387	1	0.04	7	260	5	0.20	<2	2
Y017272		2.46	<10	<1	0.54	50	0.40	271	1	0.03	5	250	3	0.01	3	2
Y017273		1.68	<10	<1	0.53	40	0.62	298	3	0.03	4	220	3	0.07	<2	2
Y017274		1.79	<10	<1	0.45	50	0.40	263	1	0.03	5	280	5	0.05	2	2
Y017275		1.79	<10	<1	0.70	50	0.75	342	1	0.04	6	230	6	0.11	<2	2
Y017276		1.83	<10	<1	0.62	50	0.58	402	1	0.03	4	240	5	0.04	<2	2
Y017277		2.41	<10	<1	0.71	40	0.75	456	<1	0.03	13	350	3	0.01	3	4
Y017278		1.90	<10	<1	0.43	40	0.34	312	1	0.04	4	220	6	0.03	3	2
Y017279		1.60	<10	<1	0.30	50	0.49	269	1	0.03	4	220	7	0.19	4	2



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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
Y017240		87	<20	0.16	<10	<10	97	<10
Y017241		29	30	<0.01	<10	<10	3	<10
Y017242		71	30	<0.01	<10	<10	3	<10
Y017243		232	20	<0.01	<10	<10	3	<10
Y017244		200	20	<0.01	<10	<10	4	<10
Y017245		864	<20	<0.01	<10	<10	6	<10
Y017246		595	<20	<0.01	<10	10	12	<10
Y017247		337	20	<0.01	<10	<10	5	<10
Y017248		120	<20	0.03	<10	20	76	<10
Y017249		137	<20	0.02	<10	10	68	<10
Y017250		153	<20	0.02	<10	<10	52	10
Y017251		70	<20	0.01	<10	<10	37	<10
Y017252		37	20	<0.01	<10	<10	12	<10
Y017253		28	30	<0.01	<10	<10	9	<10
Y017254		30	20	<0.01	<10	<10	13	<10
Y017255		165	<20	0.07	<10	<10	69	<10
Y017256		188	<20	0.04	<10	10	42	<10
Y017257		94	20	0.01	<10	<10	11	<10
Y017258		54	20	0.03	<10	<10	15	<10
Y017259		56	20	0.03	<10	<10	12	<10
Y017260		88	<20	0.15	<10	<10	97	<10
Y017261		50	20	0.05	<10	<10	16	<10
Y017262		96	20	0.02	<10	<10	24	<10
Y017263		119	20	0.01	<10	<10	29	<10
Y017264		90	20	0.02	<10	<10	31	<10
Y017265		67	20	0.06	<10	<10	26	<10
Y017266		216	20	0.02	<10	10	21	<10
Y017267		69	20	0.02	<10	<10	7	<10
Y017268		72	30	0.03	<10	<10	9	<10
Y017269		50	20	0.04	<10	<10	10	<10
Y017270		91	<20	0.11	<10	<10	74	<10
Y017271		35	30	0.03	<10	<10	10	<10
Y017272		27	20	0.04	<10	<10	11	<10
Y017273		51	20	0.04	<10	<10	10	<10
Y017274		30	30	0.04	<10	<10	19	<10
Y017275		34	30	0.05	<10	<10	10	<10
Y017276		25	30	0.05	<10	<10	8	<10
Y017277		25	20	0.05	<10	<10	24	<10
Y017278		27	30	0.03	<10	<10	8	<10
Y017279		41	30	0.02	<10	<10	9	<10



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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
Y017280		0.10	<0.001		<0.2	1.69	2	<10	140	<0.5	<2	0.99	<0.5	9	24	96
Y017281		2.08	0.018		<0.2	0.65	135	<10	80	0.6	<2	1.08	<0.5	3	6	4
Y017282		2.32	0.002		<0.2	0.79	28	<10	140	0.7	<2	0.61	<0.5	4	9	4
Y017283		2.16	0.003		<0.2	0.86	39	<10	90	0.6	<2	0.68	<0.5	3	9	6
Y017284		2.20	0.001		<0.2	0.91	27	<10	60	0.6	<2	0.89	<0.5	4	6	4
Y017285		2.26	<0.001		<0.2	0.81	12	<10	50	0.6	<2	1.65	<0.5	3	9	4
Y017286		2.26	<0.001		0.2	0.76	12	<10	40	<0.5	<2	1.12	<0.5	3	10	3
Y017287		2.26	0.003		0.2	0.78	19	<10	80	<0.5	<2	0.81	<0.5	4	8	2
Y017288		2.22	<0.001		<0.2	0.72	13	<10	110	<0.5	<2	1.08	<0.5	4	7	2
Y017289		2.30	<0.001		<0.2	0.84	18	<10	60	0.6	2	1.00	<0.5	5	13	2
Y017290		0.10	0.945	0.93	3.0	2.57	7	10	90	<0.5	<2	1.93	0.6	16	102	218
Y017291		2.24	<0.001		<0.2	0.59	89	<10	50	0.5	3	1.03	<0.5	4	8	2
Y017292		2.30	<0.001		<0.2	0.78	7	<10	80	<0.5	<2	0.94	<0.5	5	7	2
Y017293		2.36	<0.001		<0.2	0.66	4	<10	50	<0.5	<2	0.90	<0.5	3	9	2
Y017294		2.36	<0.001		<0.2	0.81	6	<10	170	<0.5	<2	1.22	<0.5	4	6	2
Y017295		1.26	<0.001		<0.2	0.82	5	<10	80	<0.5	<2	1.26	<0.5	6	8	3
Y017296		0.92	<0.001		<0.2	0.86	4	<10	80	<0.5	<2	1.07	<0.5	5	9	2
Y017297		2.40	<0.001		<0.2	0.74	4	<10	70	<0.5	2	1.13	<0.5	4	5	1
Y017298		2.32	<0.001		<0.2	0.69	3	<10	40	<0.5	<2	0.65	<0.5	4	7	1
Y017299		2.38	0.001		<0.2	1.59	2	<10	110	1.2	<2	1.50	<0.5	10	89	2
Y017300		0.10	<0.001		<0.2	1.63	<2	<10	140	<0.5	<2	0.96	<0.5	9	25	100
Y017301		2.48	<0.001		<0.2	0.83	5	<10	80	<0.5	<2	1.14	<0.5	4	10	<1
Y017302		2.24	<0.001		<0.2	0.64	18	<10	70	<0.5	<2	0.86	<0.5	5	8	1
Y017303		2.32	<0.001		<0.2	0.63	12	<10	60	<0.5	2	0.95	<0.5	6	9	1
Y017304		2.12	<0.001		<0.2	0.70	8	<10	70	0.5	<2	1.74	<0.5	4	7	1
Y017305		2.22	<0.001		<0.2	0.66	10	<10	60	0.5	2	0.82	<0.5	4	9	2
Y017306		2.22	<0.001		<0.2	0.22	10	<10	30	<0.5	<2	0.66	<0.5	1	8	1
Y017307		2.22	<0.001		<0.2	0.65	5	<10	30	<0.5	<2	0.62	<0.5	4	21	3
Y017308		2.22	<0.001		<0.2	1.01	4	<10	760	0.7	<2	0.89	<0.5	5	38	4
Y017309		2.36	<0.001		<0.2	1.14	4	<10	80	0.5	<2	0.91	<0.5	5	29	1
Y017310		0.10	9.64	NSS	6.4	1.82	39	<10	170	<0.5	<2	1.13	3.4	15	33	1890
Y017311		2.18	<0.001		<0.2	0.65	5	<10	140	0.5	<2	0.59	<0.5	4	42	4
Y017312		2.18	0.001		<0.2	0.99	7	<10	70	<0.5	<2	1.27	<0.5	4	13	7
Y017313		2.22	<0.001		<0.2	0.64	7	<10	80	<0.5	2	0.89	<0.5	4	13	7
Y017314		2.16	<0.001		<0.2	0.75	12	<10	50	<0.5	<2	0.74	<0.5	10	9	3
Y017315		2.40	<0.001		<0.2	1.03	17	<10	70	0.5	<2	1.12	<0.5	9	16	3
Y017316		2.24	<0.001		<0.2	0.58	9	<10	60	<0.5	<2	0.58	<0.5	2	9	5
Y017317		2.26	<0.001		<0.2	0.48	5	<10	70	<0.5	<2	0.98	<0.5	2	7	4
Y017318		2.38	<0.001		<0.2	0.71	4	<10	60	0.5	<2	0.92	<0.5	4	29	2
Y017319		2.30	<0.001		<0.2	0.83	8	<10	50	0.5	<2	1.06	<0.5	4	42	1



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		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
Y017280		3.40	<10	<1	0.23	10	0.80	451	5	0.21	13	530	4	0.02	<2	3
Y017281		1.44	<10	<1	0.36	40	0.24	375	1	0.02	4	280	6	0.03	4	1
Y017282		1.79	<10	<1	0.50	50	0.30	283	1	0.04	5	310	8	0.06	2	2
Y017283		1.79	<10	<1	0.59	50	0.43	304	<1	0.04	5	350	8	0.02	3	2
Y017284		1.66	<10	<1	0.69	50	0.59	305	<1	0.03	5	340	6	0.07	<2	2
Y017285		1.59	<10	<1	0.58	50	0.55	353	1	0.03	5	380	4	0.11	2	1
Y017286		1.78	<10	<1	0.25	50	0.48	335	1	0.03	6	370	6	0.17	<2	2
Y017287		1.78	<10	<1	0.35	50	0.50	326	2	0.04	6	340	5	0.19	<2	2
Y017288		1.60	<10	<1	0.44	60	0.36	369	2	0.04	4	310	2	0.12	<2	1
Y017289		2.04	<10	<1	0.65	50	0.55	347	1	0.03	6	390	5	0.06	2	3
Y017290		3.04	10	<1	0.17	10	1.61	548	5	0.29	147	340	189	0.10	3	3
Y017291		1.94	<10	<1	0.43	50	0.49	302	1	0.03	5	340	4	0.18	<2	2
Y017292		1.87	<10	<1	0.53	60	0.44	329	1	0.04	3	330	3	0.28	<2	2
Y017293		1.87	<10	<1	0.39	60	0.33	312	2	0.05	3	300	3	0.13	<2	2
Y017294		1.94	<10	<1	0.59	60	0.43	364	3	0.05	3	310	2	0.28	<2	1
Y017295		2.12	<10	<1	0.61	50	0.47	373	1	0.04	3	290	4	0.42	<2	1
Y017296		2.03	<10	<1	0.65	50	0.48	356	2	0.05	3	310	3	0.24	<2	2
Y017297		1.63	<10	<1	0.44	50	0.39	349	2	0.03	3	310	2	0.14	<2	1
Y017298		1.55	<10	<1	0.40	50	0.35	296	1	0.05	2	290	3	0.07	<2	1
Y017299		3.17	10	<1	1.24	40	1.16	575	<1	0.04	30	1450	3	0.11	<2	2
Y017300		3.41	<10	<1	0.23	10	0.82	454	5	0.19	13	580	5	0.01	<2	3
Y017301		1.68	<10	<1	0.61	50	0.47	339	1	0.04	7	360	2	0.18	<2	2
Y017302		1.92	<10	<1	0.48	60	0.38	257	2	0.04	5	330	3	0.52	2	2
Y017303		2.11	<10	<1	0.47	50	0.42	305	2	0.04	4	290	3	0.51	2	2
Y017304		2.25	<10	<1	0.53	50	0.73	404	2	0.03	4	260	4	0.35	3	2
Y017305		2.05	<10	<1	0.52	50	0.40	301	2	0.04	4	230	2	0.27	<2	2
Y017306		0.95	<10	<1	0.17	20	0.13	161	2	0.04	1	50	<2	0.04	<2	1
Y017307		1.52	<10	<1	0.50	30	0.50	271	6	0.04	10	250	2	0.13	<2	1
Y017308		2.27	10	<1	0.83	50	0.82	351	1	0.04	12	510	4	0.23	<2	2
Y017309		2.33	<10	<1	0.97	60	0.88	399	2	0.04	12	450	4	0.39	<2	2
Y017310		3.96	<10	<1	0.24	10	1.00	642	25	0.22	179	600	332	0.48	10	3
Y017311		1.65	<10	<1	0.53	30	0.50	255	3	0.06	12	330	2	0.20	<2	2
Y017312		2.59	10	<1	0.70	50	0.56	384	2	0.05	5	390	3	0.19	<2	3
Y017313		2.17	<10	<1	0.38	50	0.38	225	2	0.07	5	360	2	0.81	2	2
Y017314		2.97	<10	<1	0.43	60	0.55	246	3	0.07	5	390	3	1.95	<2	2
Y017315		2.54	<10	<1	0.70	40	0.79	339	2	0.05	7	400	3	0.95	<2	2
Y017316		1.29	<10	<1	0.30	40	0.23	188	3	0.04	1	170	2	0.18	<2	1
Y017317		1.17	<10	<1	0.29	40	0.23	233	3	0.04	2	170	2	0.10	<2	1
Y017318		1.71	<10	<1	0.45	40	0.55	324	1	0.05	11	290	2	0.07	2	1
Y017319		1.58	<10	<1	0.57	40	0.57	316	1	0.05	11	370	2	0.08	3	1



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Project: Coffee

CERTIFICATE OF ANALYSIS VA18239035

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
Y017280		80	<20	0.15	<10	<10	95	<10
Y017281		24	20	0.02	<10	<10	6	<10
Y017282		19	30	0.04	<10	<10	8	<10
Y017283		15	30	0.05	<10	<10	8	<10
Y017284		15	30	0.06	<10	<10	6	<10
Y017285		25	20	0.04	<10	<10	7	<10
Y017286		33	20	0.02	<10	<10	9	<10
Y017287		27	20	0.03	<10	<10	9	<10
Y017288		25	30	0.03	<10	<10	7	<10
Y017289		49	20	0.07	<10	<10	18	<10
Y017290		76	<20	0.10	<10	<10	66	<10
Y017291		55	20	0.03	<10	<10	10	<10
Y017292		26	30	0.05	<10	<10	7	<10
Y017293		41	30	0.04	<10	<10	9	<10
Y017294		25	30	0.06	<10	<10	7	<10
Y017295		30	20	0.07	<10	<10	9	<10
Y017296		29	30	0.07	<10	<10	10	<10
Y017297		33	30	0.05	<10	<10	6	<10
Y017298		22	20	0.07	<10	<10	8	<10
Y017299		45	20	0.16	<10	<10	28	<10
Y017300		76	<20	0.15	<10	<10	96	<10
Y017301		36	20	0.06	<10	<10	8	<10
Y017302		30	30	0.04	<10	<10	8	<10
Y017303		34	30	0.04	<10	<10	9	<10
Y017304		70	30	0.05	<10	<10	9	<10
Y017305		41	30	0.05	<10	<10	11	<10
Y017306		29	40	<0.01	<10	<10	5	<10
Y017307		29	40	0.04	<10	10	8	<10
Y017308		140	30	0.09	<10	<10	22	<10
Y017309		45	30	0.08	<10	<10	14	<10
Y017310		82	<20	0.14	<10	<10	99	<10
Y017311		51	40	0.04	<10	10	11	<10
Y017312		116	30	0.09	<10	<10	18	<10
Y017313		186	20	0.05	<10	<10	13	<10
Y017314		60	30	0.04	<10	<10	12	<10
Y017315		64	30	0.08	<10	10	22	<10
Y017316		42	40	0.02	<10	10	5	<10
Y017317		61	40	0.02	<10	10	5	<10
Y017318		63	30	0.03	<10	10	10	<10
Y017319		45	40	0.04	<10	10	12	<10



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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	ME-ICP41
		Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
		kg	ppm	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	1
Y017320		0.10	0.002		<0.2	1.66	2	<10	140	<0.5	<2	0.99	<0.5	9	25	102
Y017321		2.26	<0.001		<0.2	2.05	9	<10	110	2.2	<2	2.38	<0.5	13	248	6
Y017322		2.46	0.001		<0.2	0.51	25	<10	40	0.5	<2	1.07	<0.5	4	9	6
Y017323		2.30	0.010		<0.2	0.68	7	<10	50	<0.5	<2	0.89	<0.5	4	11	3
Y017324		2.42	0.011		<0.2	0.81	8	<10	60	0.6	<2	1.09	<0.5	6	63	2
Y017325		2.38	<0.001		<0.2	0.90	10	<10	60	<0.5	<2	0.83	<0.5	7	10	3
Y017326		2.42	<0.001		<0.2	0.62	85	<10	50	<0.5	<2	0.62	<0.5	6	11	2
Y017327		2.36	<0.001		<0.2	0.77	3	<10	70	<0.5	<2	1.16	<0.5	7	10	3



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CERTIFICATE OF ANALYSIS VA18239035

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
		%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2
Y017320		3.48	<10	<1	0.23	10	0.84	474	6	0.20	13	600	5	0.01	<2
Y017321		3.44	10	<1	1.83	40	2.14	745	1	0.03	80	1770	4	0.18	3
Y017322		2.14	<10	<1	0.30	50	0.40	246	2	0.04	5	270	6	0.56	<2
Y017323		1.78	<10	<1	0.47	50	0.46	254	2	0.04	5	270	3	0.12	5
Y017324		2.34	<10	<1	0.60	50	0.63	324	4	0.04	20	600	2	0.28	2
Y017325		2.35	<10	<1	0.61	50	0.53	342	3	0.04	5	320	3	0.41	2
Y017326		1.93	<10	<1	0.40	40	0.38	220	3	0.06	4	280	4	0.63	2
Y017327		2.23	10	<1	0.61	50	0.50	302	2	0.05	6	360	4	0.50	<2



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CERTIFICATE OF ANALYSIS VA18239035

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	ppm	%	ppm	ppm	ppm	ppm
		1	20	0.01	10	10	1	10
								Zn
								ppm
								2
Y017320		77	<20	0.15	<10	<10	98	<10
Y017321		122	20	0.15	<10	10	44	<10
Y017322		56	30	0.02	<10	10	10	<10
Y017323		54	30	0.04	<10	<10	12	<10
Y017324		134	30	0.06	<10	<10	20	<10
Y017325		71	30	0.07	<10	10	11	<10
Y017326		57	30	0.04	<10	10	10	<10
Y017327		178	30	0.06	<10	<10	17	<10



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CERTIFICATE OF ANALYSIS VA18239035

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