



ALS Canada Ltd.

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

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Total # Pages: 2 (A - C)  
Plus Appendix Pages  
Finalized Date: 16-AUG-2018  
Account: KAMGOL

**CERTIFICATE VA18178297**

Project: Coffee

P.O. No.: KGC-18-1344

This report is for 40 Percussion samples submitted to our lab in Whitehorse, YT,  
Canada on 23-JUL-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 VA18178297**

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
W801474		1.88	0.029		<0.2	1.04	21	10	120	0.5	<2	0.23	<0.5	7	17	6
W801475		1.20	0.010		<0.2	1.03	11	10	130	0.5	<2	0.21	<0.5	7	16	6
W801476		1.32	0.014		<0.2	1.40	25	10	160	0.7	<2	0.24	<0.5	9	22	10
W801477		0.58	0.002		<0.2	1.09	15	<10	130	0.5	<2	0.22	<0.5	6	17	5
W801478		0.62	0.011		<0.2	1.01	25	<10	130	0.5	2	0.20	<0.5	6	18	9
W801479		1.22	0.028		<0.2	0.80	47	<10	180	0.7	2	0.08	<0.5	7	15	9
W801480		0.10	<0.001		<0.2	1.53	<2	<10	130	<0.5	<2	0.86	<0.5	10	10	95
W801481		1.40	0.007		<0.2	0.96	18	<10	200	0.5	<2	0.20	<0.5	5	14	8
W801482		1.66	0.003		<0.2	0.95	16	<10	130	<0.5	<2	0.20	<0.5	5	14	10
W801483		2.34	0.003		<0.2	0.81	20	<10	230	<0.5	2	0.19	<0.5	4	11	9
W801484		1.86	0.006		<0.2	0.92	11	<10	140	<0.5	<2	0.16	<0.5	8	12	17
W801485		1.82	0.005		<0.2	0.98	14	<10	140	0.5	<2	0.15	<0.5	7	13	6
W801486		1.62	0.001		<0.2	0.82	60	<10	90	<0.5	<2	0.18	<0.5	5	10	5
W801487		2.18	<0.001		<0.2	0.95	34	<10	100	0.5	2	0.23	<0.5	6	12	7
W801488		2.22	<0.001		<0.2	0.76	34	<10	70	<0.5	<2	0.21	<0.5	6	13	8
W801489		2.14	<0.001		<0.2	1.25	26	<10	100	0.5	<2	0.34	<0.5	12	22	8
W801490		0.10	6.20	5.49	0.9	2.51	547	10	110	<0.5	<2	2.04	<0.5	47	815	103
W801491		1.64	<0.001		<0.2	0.85	7	<10	90	<0.5	<2	0.17	<0.5	5	12	8
W801492		1.98	0.002		<0.2	0.37	7	<10	20	<0.5	<2	0.06	<0.5	3	11	5
W801493		2.14	0.004		<0.2	0.58	25	<10	50	<0.5	<2	0.10	<0.5	2	9	6
W801494		2.68	<0.001		<0.2	0.72	23	<10	80	<0.5	<2	0.15	<0.5	5	13	8
W801495		2.02	<0.001		<0.2	0.78	14	<10	80	0.5	<2	0.19	<0.5	5	12	6
W801496		2.50	0.001		<0.2	0.78	80	<10	80	<0.5	2	0.14	<0.5	5	12	8
W801497		1.96	<0.001		<0.2	0.61	77	<10	80	<0.5	<2	0.07	<0.5	4	16	12
W801498		2.14	<0.001		<0.2	0.58	32	<10	70	<0.5	<2	0.09	<0.5	3	12	23
W801499		2.18	<0.001		<0.2	0.61	20	<10	90	<0.5	<2	0.13	<0.5	3	10	11
W801500		0.10	0.004		<0.2	1.61	2	<10	130	<0.5	<2	0.91	<0.5	9	9	92
W801501		2.28	<0.001		<0.2	0.68	24	<10	80	<0.5	<2	0.11	<0.5	2	11	13
W801502		1.68	0.003		<0.2	0.80	60	<10	100	<0.5	<2	0.20	<0.5	7	14	16
W801503		1.70	<0.001		<0.2	0.65	20	<10	70	<0.5	<2	0.12	<0.5	6	13	12
W801504		1.88	<0.001		<0.2	0.58	11	<10	90	<0.5	<2	0.11	<0.5	4	10	8
W801505		1.96	<0.001		<0.2	0.61	25	<10	90	<0.5	<2	0.14	<0.5	6	11	7
W801506		2.20	0.037		<0.2	0.63	312	<10	140	0.5	2	0.14	<0.5	5	10	8
W801507		1.62	0.663	0.69	0.2	0.70	620	<10	120	0.9	<2	0.18	<0.5	5	11	7
W801508		2.32	0.015		<0.2	0.48	110	<10	80	<0.5	<2	0.09	<0.5	3	17	6
W801509		2.20	0.006		<0.2	2.36	63	<10	370	0.7	<2	2.11	<0.5	24	216	23
W801510		0.10	0.139		0.2	0.76	77	10	270	0.5	<2	12.9	0.8	5	17	10
W801511		1.96	0.003		<0.2	2.46	19	<10	340	<0.5	<2	1.28	<0.5	27	203	32
W801512		2.06	0.001		<0.2	1.94	10	<10	260	<0.5	<2	1.37	<0.5	28	133	37
W801513		2.32	0.003		<0.2	1.69	32	<10	250	<0.5	<2	1.47	<0.5	17	115	17



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**CERTIFICATE OF ANALYSIS VA18178297**

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
W801474		2.05	<10	<1	0.54	40	0.38	312	1	0.04	12	340	5	0.01	<2	2
W801475		1.96	<10	<1	0.62	50	0.40	350	2	0.04	11	380	4	<0.01	<2	2
W801476		2.34	<10	<1	0.69	50	0.67	315	2	0.03	17	360	4	0.06	<2	2
W801477		1.93	<10	<1	0.67	50	0.45	287	1	0.04	12	380	5	0.02	<2	2
W801478		2.09	<10	<1	0.60	60	0.37	268	2	0.04	11	400	4	0.06	<2	2
W801479		2.21	<10	<1	0.32	70	0.18	446	3	0.02	10	290	5	0.02	3	3
W801480		2.80	<10	<1	0.21	10	0.74	382	2	0.15	5	660	4	0.01	<2	2
W801481		1.92	<10	<1	0.58	70	0.33	300	2	0.05	8	400	5	<0.01	<2	2
W801482		1.85	<10	<1	0.59	80	0.35	301	2	0.05	8	370	4	<0.01	<2	1
W801483		1.69	<10	<1	0.50	50	0.27	243	3	0.04	8	350	3	<0.01	<2	1
W801484		1.85	<10	<1	0.54	80	0.32	371	3	0.05	8	350	21	<0.01	<2	2
W801485		2.29	<10	<1	0.57	70	0.34	342	3	0.05	7	410	4	0.04	<2	2
W801486		1.88	<10	<1	0.41	60	0.26	210	2	0.04	6	380	4	<0.01	<2	2
W801487		2.13	10	<1	0.41	60	0.30	344	2	0.06	8	370	6	<0.01	<2	2
W801488		1.80	<10	<1	0.32	60	0.22	291	2	0.05	7	350	5	<0.01	<2	2
W801489		2.39	<10	1	0.62	50	0.67	365	3	0.04	12	470	2	<0.01	<2	2
W801490		7.64	10	<1	0.63	10	2.73	1295	5	0.06	493	490	21	1.02	2	6
W801491		1.73	<10	<1	0.53	50	0.27	194	2	0.05	7	350	4	0.02	<2	1
W801492		0.96	<10	<1	0.24	20	0.06	175	3	0.04	5	100	<2	<0.01	<2	<1
W801493		1.56	<10	<1	0.33	30	0.14	129	4	0.04	3	260	3	0.06	2	1
W801494		1.91	<10	<1	0.46	70	0.22	143	4	0.05	7	360	4	0.21	<2	1
W801495		1.85	<10	<1	0.56	50	0.32	271	3	0.04	5	380	7	0.02	2	2
W801496		1.76	<10	<1	0.46	70	0.30	334	4	0.04	13	360	7	0.01	<2	1
W801497		1.66	<10	<1	0.32	50	0.16	255	5	0.06	38	200	8	0.11	3	1
W801498		1.61	<10	<1	0.32	50	0.18	276	4	0.04	10	180	8	0.01	<2	1
W801499		1.58	<10	<1	0.39	50	0.22	229	4	0.04	10	280	8	0.13	3	1
W801500		2.71	10	<1	0.20	10	0.72	386	2	0.17	5	630	4	0.02	<2	2
W801501		1.85	<10	<1	0.42	40	0.21	103	5	0.05	5	360	7	0.18	<2	2
W801502		2.00	<10	<1	0.46	60	0.34	314	4	0.05	20	360	4	0.02	4	2
W801503		1.58	<10	<1	0.40	30	0.25	189	4	0.04	11	230	3	0.08	<2	1
W801504		1.28	<10	<1	0.37	30	0.18	225	4	0.06	6	190	2	0.05	2	<1
W801505		1.16	<10	<1	0.37	50	0.23	233	3	0.05	7	310	5	0.01	5	1
W801506		1.43	<10	<1	0.31	50	0.16	216	2	0.03	7	350	5	0.01	86	1
W801507		1.58	<10	1	0.23	50	0.08	246	2	0.01	10	350	10	0.01	175	2
W801508		0.98	<10	<1	0.28	50	0.17	151	2	0.05	7	260	5	0.01	18	1
W801509		3.22	10	<1	1.38	10	2.26	619	2	0.06	119	300	4	0.01	12	7
W801510		1.05	<10	<1	0.38	10	3.45	219	3	0.02	21	270	9	0.03	26	3
W801511		3.86	10	<1	1.22	10	2.40	467	3	0.08	119	490	2	0.01	3	5
W801512		3.70	10	<1	0.83	<10	1.74	391	2	0.06	91	710	4	0.19	<2	4
W801513		2.63	10	<1	0.84	10	1.44	427	2	0.06	78	510	3	0.03	5	3



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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
W801474		27	20	0.09	<10	<10	18	<10
W801475		19	20	0.11	<10	<10	14	<10
W801476		34	30	0.12	<10	<10	20	<10
W801477		25	20	0.11	<10	<10	14	<10
W801478		35	30	0.10	<10	<10	13	<10
W801479		25	30	0.04	<10	<10	15	<10
W801480		68	<20	0.12	<10	<10	99	<10
W801481		26	30	0.09	<10	<10	12	<10
W801482		21	30	0.10	<10	<10	10	<10
W801483		19	30	0.09	<10	<10	8	<10
W801484		19	30	0.09	<10	<10	9	<10
W801485		28	30	0.09	<10	<10	10	<10
W801486		27	20	0.09	<10	<10	9	<10
W801487		39	30	0.08	<10	<10	12	<10
W801488		29	30	0.06	<10	<10	10	<10
W801489		28	20	0.14	<10	<10	20	<10
W801490		70	<20	0.09	<10	<10	81	<10
W801491		18	30	0.08	<10	<10	8	<10
W801492		8	40	0.01	<10	10	2	<10
W801493		27	30	0.07	<10	10	6	<10
W801494		25	30	0.09	<10	10	8	<10
W801495		23	30	0.09	<10	<10	11	<10
W801496		14	30	0.05	<10	<10	9	<10
W801497		11	30	0.02	<10	<10	6	<10
W801498		15	40	0.02	<10	<10	7	<10
W801499		18	30	0.07	<10	<10	6	<10
W801500		75	<20	0.13	<10	<10	98	<10
W801501		37	30	0.12	<10	<10	9	<10
W801502		22	30	0.10	<10	<10	12	<10
W801503		15	30	0.05	<10	<10	4	<10
W801504		15	30	0.05	<10	<10	3	<10
W801505		13	30	0.04	<10	<10	6	<10
W801506		15	30	0.02	<10	<10	10	<10
W801507		20	30	<0.01	<10	<10	15	<10
W801508		8	30	0.02	<10	<10	5	<10
W801509		30	<20	0.16	<10	<10	60	<10
W801510		158	<20	0.02	<10	<10	52	20
W801511		25	<20	0.22	<10	<10	67	<10
W801512		34	<20	0.25	<10	<10	58	<10
W801513		35	<20	0.17	<10	<10	35	<10



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**CERTIFICATE COMMENTS**

**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