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

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Total # Pages: 4 (A - C)  
Plus Appendix Pages  
Finalized Date: 26-JUL-2018  
Account: KAMGOL

**CERTIFICATE WH18163843**

Project: Coffee

P.O. No.: KGC-18-1301

This report is for 100 Percussion samples submitted to our lab in Whitehorse, YT, Canada on 9-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 WH18163843**

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
X843503		2.93	<0.001		<0.2	3.41	4	<10	230	0.5	<2	3.33	<0.5	18	286	14
X843504		4.09	<0.001		<0.2	3.16	27	<10	230	0.6	<2	3.90	<0.5	19	262	19
X843505		2.26	<0.001		<0.2	2.76	2	<10	200	<0.5	<2	2.73	<0.5	19	149	24
X843506		1.59	<0.001		<0.2	2.67	<2	<10	200	<0.5	<2	3.20	<0.5	17	244	21
X843507		3.11	<0.001		<0.2	2.04	2	<10	150	<0.5	<2	3.54	<0.5	14	158	13
X843508		2.37	<0.001		<0.2	1.17	2	<10	90	<0.5	<2	1.68	<0.5	7	93	15
X843509		3.29	<0.001		<0.2	1.69	2	<10	130	<0.5	<2	2.10	<0.5	15	18	36
X843510		0.06	0.136		0.3	0.74	77	10	260	0.5	2	13.2	0.8	5	17	11
X843511		2.64	<0.001		<0.2	2.30	3	<10	230	<0.5	2	1.81	<0.5	19	18	40
X843512		2.93	<0.001		<0.2	2.03	2	<10	220	<0.5	<2	1.84	<0.5	15	18	24
X843513		2.90	<0.001		<0.2	2.25	3	<10	330	<0.5	<2	1.95	<0.5	20	17	32
X843514		3.07	<0.001		<0.2	2.20	9	<10	180	<0.5	<2	1.82	<0.5	17	18	37
X843515		3.34	<0.001		<0.2	2.06	17	<10	170	<0.5	<2	1.36	<0.5	18	15	43
X843516		3.25	<0.001		<0.2	2.21	12	<10	280	<0.5	<2	0.81	<0.5	18	15	32
X843517		2.93	<0.001		<0.2	2.81	15	<10	330	0.5	2	1.05	<0.5	23	14	32
X843518		2.47	0.002		<0.2	2.89	29	<10	330	0.6	<2	1.07	<0.5	22	15	46
X843519		2.75	0.004		<0.2	2.36	61	<10	220	0.6	<2	4.58	<0.5	20	290	18
X843520		0.06	<0.001		<0.2	1.54	<2	<10	120	<0.5	2	0.91	<0.5	8	10	92
X843521		2.73	0.207		<0.2	0.93	1620	<10	110	1.8	2	8.0	<0.5	23	131	20
X843522		3.30	0.004		<0.2	0.95	50	<10	40	0.7	<2	3.08	<0.5	9	54	18
X843523		2.96	<0.001		<0.2	2.14	19	<10	160	1.5	3	5.84	<0.5	22	198	16
X843524		3.12	<0.001		<0.2	0.92	44	<10	20	1.4	2	6.81	<0.5	26	51	17
X843525		3.05	<0.001		<0.2	1.89	8	<10	420	1.5	<2	3.16	<0.5	25	16	47
X843526		3.26	<0.001		<0.2	2.64	9	<10	590	1.1	2	4.79	<0.5	18	137	10
X843527		3.20	<0.001		<0.2	2.32	8	<10	570	1.2	<2	7.63	<0.5	20	244	9
X843528		3.64	<0.001		<0.2	1.83	13	<10	450	0.7	<2	3.32	<0.5	17	195	21
X843529		3.79	<0.001		<0.2	1.84	10	<10	560	0.5	<2	3.40	<0.5	18	51	27
X843530		0.06	3.09	2.81	0.7	2.66	163	<10	180	<0.5	2	1.92	<0.5	29	451	90
X843531		2.95	<0.001		<0.2	1.73	30	<10	360	0.6	2	4.11	<0.5	35	79	128
X843532		2.81	<0.001		<0.2	1.68	5	<10	190	<0.5	2	4.38	<0.5	18	145	19
X843533		2.82	0.274		<0.2	1.10	4970	10	130	1.2	<2	4.43	<0.5	14	63	22
X843534		2.71	<0.001		<0.2	1.82	39	<10	240	0.8	<2	5.06	<0.5	18	128	16
X843535		2.31	<0.001		<0.2	1.52	20	<10	80	<0.5	<2	3.20	<0.5	14	124	5
X843536		2.41	<0.001		<0.2	1.01	6	<10	50	<0.5	<2	1.34	<0.5	12	65	18
X843537		1.85	<0.001		<0.2	1.25	10	<10	50	<0.5	<2	1.53	<0.5	15	130	30
X843538		2.27	<0.001		<0.2	1.47	12	<10	60	<0.5	<2	1.84	<0.5	15	84	25
X843539		2.90	<0.001		<0.2	1.11	23	<10	40	<0.5	2	2.49	<0.5	12	69	18
X843540		0.06	0.008		<0.2	1.59	<2	<10	130	<0.5	<2	0.93	<0.5	9	10	93
X843541		2.89	<0.001		<0.2	1.30	35	<10	150	0.5	<2	3.35	<0.5	27	77	46
X843542		2.67	<0.001		<0.2	2.30	23	<10	150	0.6	<2	2.92	<0.5	24	166	6



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**CERTIFICATE OF ANALYSIS WH18163843**

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
X843503		2.76	10	<1	1.85	<10	2.94	822	1	0.05	88	50	3	0.01	<2	7
X843504		3.06	10	<1	2.06	<10	2.94	812	1	0.05	91	30	7	0.02	<2	7
X843505		2.74	10	<1	1.79	<10	2.60	593	<1	0.06	72	90	<2	0.05	2	6
X843506		2.22	<10	<1	1.70	<10	2.55	541	<1	0.05	82	70	2	0.01	<2	5
X843507		1.72	<10	<1	1.28	<10	1.94	449	<1	0.05	50	140	3	0.06	<2	4
X843508		1.17	<10	<1	0.64	10	0.97	207	1	0.06	29	220	3	0.03	<2	3
X843509		2.33	10	<1	0.73	<10	1.36	337	1	0.07	27	250	2	0.09	<2	7
X843510		1.05	<10	<1	0.39	10	3.51	218	3	0.03	22	260	10	0.04	22	3
X843511		3.57	10	<1	1.12	<10	1.70	477	1	0.08	16	240	<2	0.04	<2	9
X843512		3.17	10	<1	0.86	<10	1.44	469	1	0.08	12	200	2	0.04	<2	8
X843513		3.85	10	<1	1.07	<10	1.40	572	1	0.09	9	270	3	0.09	<2	9
X843514		3.87	10	<1	0.76	<10	1.56	588	1	0.08	14	220	3	0.03	<2	9
X843515		3.39	10	<1	0.78	<10	1.47	500	1	0.07	12	250	4	0.01	<2	7
X843516		3.46	10	<1	1.07	<10	1.51	526	1	0.07	10	220	4	0.01	<2	9
X843517		4.34	10	<1	1.70	<10	1.90	708	1	0.04	14	250	11	0.01	<2	8
X843518		4.68	10	<1	1.45	<10	1.93	677	1	0.03	13	240	9	0.01	<2	12
X843519		3.24	10	<1	0.85	<10	2.05	652	1	0.04	103	220	9	0.01	<2	12
X843520		2.77	10	<1	0.20	10	0.72	370	2	0.17	5	600	3	0.02	<2	2
X843521		3.56	<10	<1	0.30	10	1.61	682	1	0.01	101	240	11	0.03	3	14
X843522		1.34	<10	<1	0.22	10	1.02	296	1	0.02	29	80	3	0.05	<2	5
X843523		3.03	<10	<1	1.16	<10	2.53	740	<1	0.02	92	150	6	0.08	<2	18
X843524		3.84	<10	<1	0.08	<10	1.96	732	1	0.02	51	250	9	0.47	<2	24
X843525		4.77	10	<1	1.01	10	1.41	630	<1	0.02	22	220	7	0.40	<2	27
X843526		3.93	10	<1	1.61	10	2.86	731	<1	0.02	51	190	7	0.19	<2	24
X843527		3.57	10	<1	1.39	10	3.80	775	<1	0.02	94	150	7	0.05	<2	18
X843528		3.25	10	<1	0.96	10	2.15	518	1	0.05	67	240	3	0.11	<2	13
X843529		3.93	10	<1	1.16	10	1.93	622	1	0.04	39	280	3	0.48	<2	15
X843530		5.32	10	<1	0.56	10	2.30	882	5	0.19	250	370	18	0.38	<2	5
X843531		3.20	<10	<1	0.85	10	2.17	562	<1	0.04	82	130	4	0.53	<2	10
X843532		1.98	<10	<1	0.76	<10	2.07	382	1	0.05	75	50	3	0.24	<2	8
X843533		3.34	<10	1	0.40	10	2.06	577	<1	0.03	41	210	6	1.35	6	15
X843534		2.76	<10	<1	0.85	<10	2.48	662	<1	0.05	54	110	5	0.14	<2	16
X843535		1.74	<10	<1	0.53	<10	1.73	386	1	0.06	48	60	<2	0.10	<2	7
X843536		1.43	<10	<1	0.27	<10	1.00	216	2	0.07	36	210	2	0.08	<2	3
X843537		1.84	<10	<1	0.27	<10	1.34	239	1	0.07	55	120	<2	0.11	<2	4
X843538		1.84	<10	<1	0.40	<10	1.53	251	1	0.07	47	110	3	0.09	<2	4
X843539		1.70	<10	<1	0.35	<10	1.43	258	1	0.06	40	100	2	0.10	<2	6
X843540		2.78	<10	<1	0.21	10	0.75	380	2	0.17	5	610	4	0.02	<2	2
X843541		2.79	<10	<1	0.45	<10	1.93	477	1	0.06	76	130	<2	0.25	<2	10
X843542		3.95	10	<1	1.22	<10	2.53	623	1	0.08	86	560	<2	0.09	<2	10



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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
X843503		49	<20	0.07	<10	<10	36	<10
X843504		54	<20	0.06	<10	<10	38	<10
X843505		30	<20	0.07	<10	<10	51	<10
X843506		38	<20	0.06	<10	<10	29	<10
X843507		41	<20	0.05	<10	<10	29	<10
X843508		25	<20	0.04	<10	<10	27	<10
X843509		33	<20	0.10	<10	<10	76	<10
X843510		156	<20	0.02	<10	<10	52	10
X843511		27	<20	0.14	<10	<10	109	<10
X843512		38	<20	0.13	<10	<10	101	<10
X843513		31	<20	0.15	<10	<10	104	<10
X843514		30	<20	0.13	<10	<10	112	<10
X843515		29	<20	0.13	<10	<10	91	<10
X843516		23	<20	0.14	<10	<10	95	<10
X843517		78	<20	0.16	<10	<10	130	<10
X843518		71	<20	0.11	<10	<10	125	<10
X843519		100	<20	0.06	<10	<10	67	<10
X843520		72	<20	0.13	<10	<10	96	<10
X843521		284	<20	0.01	<10	<10	62	<10
X843522		61	<20	0.01	<10	<10	17	<10
X843523		117	<20	0.03	<10	<10	63	<10
X843524		144	<20	<0.01	<10	<10	123	<10
X843525		96	<20	0.07	<10	<10	146	<10
X843526		128	<20	0.09	<10	<10	119	<10
X843527		206	<20	0.05	<10	<10	67	<10
X843528		112	<20	0.08	<10	<10	61	<10
X843529		121	<20	0.09	<10	<10	97	<10
X843530		99	<20	0.12	<10	<10	78	<10
X843531		122	<20	0.10	<10	<10	73	<10
X843532		75	<20	0.04	<10	<10	40	<10
X843533		184	<20	0.02	<10	<10	55	<10
X843534		125	<20	0.05	<10	<10	55	<10
X843535		70	<20	0.06	<10	<10	28	<10
X843536		44	<20	0.07	<10	<10	19	<10
X843537		67	<20	0.06	<10	<10	24	<10
X843538		77	<20	0.04	<10	<10	20	<10
X843539		87	<20	0.04	<10	<10	26	<10
X843540		74	<20	0.13	<10	<10	98	<10
X843541		155	<20	0.08	<10	<10	38	<10
X843542		118	<20	0.07	<10	<10	42	<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
X843543		3.06	<0.001		<0.2	1.56	37	<10	110	<0.5	<2	1.90	<0.5	18	101	19
X843544		2.13	<0.001		<0.2	1.26	35	<10	70	1.3	<2	3.89	<0.5	13	54	31
X843545		2.34	<0.001		<0.2	0.77	31	<10	50	1.0	<2	2.49	<0.5	7	15	17
X843546		2.31	<0.001		<0.2	0.72	27	<10	50	1.0	<2	3.24	<0.5	9	18	36
X843547		2.20	<0.001		<0.2	0.92	34	<10	100	1.0	<2	3.27	<0.5	13	39	62
X843548		1.92	<0.001		<0.2	1.45	12	<10	110	0.5	<2	3.55	<0.5	13	132	10
X843549		2.14	<0.001		<0.2	1.78	15	<10	200	0.8	<2	2.91	<0.5	13	77	15
X843550		0.06	1.060	0.99	0.6	3.14	30	10	120	<0.5	<2	2.13	<0.5	15	117	118
X843551		2.35	<0.001		<0.2	2.38	6	<10	550	0.6	<2	4.45	<0.5	29	188	47
X843552		2.38	<0.001		<0.2	2.27	5	<10	440	0.5	<2	5.13	<0.5	28	551	44
X843553		2.87	<0.001		<0.2	1.46	7	<10	1580	0.9	<2	5.97	<0.5	18	260	19
X843554		2.56	<0.001		<0.2	1.39	13	<10	140	1.1	<2	2.41	<0.5	9	50	26
X843555		2.93	<0.001		<0.2	1.52	12	<10	130	1.1	<2	2.59	<0.5	12	35	14
X843556		2.37	<0.001		<0.2	1.46	17	<10	100	1.1	<2	2.36	<0.5	11	33	15
X843557		3.17	<0.001		<0.2	1.58	11	<10	150	0.9	<2	1.94	<0.5	11	33	16
X843558		3.57	<0.001		<0.2	1.02	7	<10	70	0.9	<2	2.31	<0.5	9	28	17
X843559		3.74	<0.001		<0.2	1.12	16	<10	60	1.2	<2	2.80	<0.5	14	40	10
X843560		0.06	<0.001		<0.2	1.65	<2	<10	130	<0.5	<2	0.97	<0.5	9	10	95
X843561		3.88	<0.001		<0.2	0.80	37	<10	60	0.9	<2	5.08	<0.5	11	27	11
X843562		3.21	<0.001		<0.2	0.99	9	<10	260	0.7	4	2.94	<0.5	11	25	14
X843563		2.62	<0.001		<0.2	1.00	16	<10	100	0.6	<2	2.84	<0.5	9	23	14
X843564		2.60	<0.001		<0.2	0.83	255	<10	190	1.0	<2	4.46	<0.5	9	28	10
X843565		2.79	0.071		<0.2	0.91	328	<10	170	1.0	2	3.95	<0.5	10	24	15
X843566		3.43	<0.001		<0.2	2.09	14	10	280	1.4	<2	3.26	<0.5	18	56	34
X843567		2.29	<0.001		<0.2	1.77	20	10	200	1.4	<2	3.75	<0.5	19	50	50
X843568		2.75	0.007		0.2	0.91	193	10	80	1.2	4	5.75	<0.5	12	30	88
X843569		2.54	<0.001		<0.2	2.13	12	<10	180	0.8	<2	1.94	<0.5	16	88	29
X843570		0.06	9.46	5.21	6.5	1.98	40	10	180	<0.5	<2	1.18	3.2	15	33	1845
X843571		2.07	<0.001		<0.2	1.76	11	<10	160	1.3	<2	3.52	<0.5	17	117	51
X843572		2.72	<0.001		<0.2	2.07	45	<10	160	1.7	<2	3.69	<0.5	16	113	32
X843573		2.46	<0.001		<0.2	1.36	23	<10	50	1.0	<2	1.55	<0.5	5	13	11
X843574		2.67	<0.001		<0.2	2.69	21	<10	170	1.2	<2	2.65	<0.5	21	65	19
X843575		2.50	<0.001		<0.2	1.06	28	<10	100	1.0	2	1.02	<0.5	3	10	10
X843576		2.10	<0.001		<0.2	1.48	11	<10	180	1.2	<2	1.16	<0.5	6	8	9
X843577		2.05	0.002		<0.2	0.42	35	<10	580	<0.5	<2	0.40	<0.5	2	11	4
X843578		2.59	<0.001		<0.2	0.62	129	<10	280	0.6	<2	1.66	<0.5	4	10	6
X843579		2.16	<0.001		<0.2	0.71	12	<10	220	0.6	<2	1.91	<0.5	4	9	6
X843580		0.06	0.016		<0.2	1.57	<2	<10	130	<0.5	<2	0.92	<0.5	8	10	90
X843581		2.29	<0.001		<0.2	0.99	7	<10	110	0.8	<2	2.39	<0.5	6	12	6
X843582		2.09	0.027		<0.2	0.86	409	<10	100	1.0	<2	3.35	<0.5	6	10	5



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Project: Coffee

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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
X843543		2.64	<10	<1	1.01	<10	1.64	395	2	0.06	50	210	2	0.39	<2	4
X843544		2.37	<10	<1	0.52	20	1.52	398	2	0.01	32	350	9	0.12	3	11
X843545		1.38	<10	<1	0.22	30	0.76	279	1	<0.01	17	430	7	0.06	<2	4
X843546		1.38	<10	<1	0.21	30	1.09	254	1	<0.01	13	360	11	0.11	2	4
X843547		1.53	<10	<1	0.43	30	0.98	263	1	0.02	12	400	9	0.20	<2	4
X843548		1.90	<10	<1	0.80	10	1.87	384	1	0.04	51	140	4	0.10	<2	8
X843549		2.73	10	<1	1.26	30	1.75	464	2	0.02	26	450	7	0.18	<2	9
X843550		2.99	10	1	0.22	10	1.36	426	4	0.37	125	360	13	0.06	<2	3
X843551		2.94	<10	1	1.68	<10	3.14	640	1	0.02	70	70	4	0.19	<2	14
X843552		2.81	<10	<1	2.03	<10	3.50	691	1	0.02	97	40	3	0.06	<2	10
X843553		2.40	<10	1	1.08	20	2.17	613	1	0.02	52	170	8	0.21	<2	12
X843554		2.43	<10	1	0.79	40	1.23	461	1	0.01	21	430	14	0.18	<2	6
X843555		3.15	<10	<1	0.85	30	1.47	586	1	0.01	26	420	14	0.18	2	7
X843556		2.85	<10	1	0.78	40	1.30	536	1	<0.01	25	440	18	0.20	2	7
X843557		2.80	<10	1	1.02	40	1.08	474	1	0.01	24	390	11	0.20	<2	5
X843558		2.45	<10	<1	0.45	40	0.98	417	2	<0.01	20	360	11	0.20	<2	6
X843559		3.36	<10	<1	0.32	30	1.14	571	1	<0.01	28	410	13	0.39	<2	9
X843560		2.84	<10	<1	0.21	10	0.74	397	2	0.17	6	650	3	0.02	<2	3
X843561		3.07	<10	1	0.20	30	1.62	600	1	<0.01	23	270	18	0.22	2	6
X843562		2.85	<10	<1	0.39	30	1.09	489	1	<0.01	19	320	12	0.31	<2	5
X843563		2.51	<10	1	0.39	30	0.99	511	1	0.01	16	280	9	0.13	<2	5
X843564		3.04	<10	1	0.18	20	1.49	748	1	0.01	19	280	12	0.27	<2	6
X843565		3.06	<10	<1	0.35	30	1.51	619	1	0.01	21	300	11	0.31	3	5
X843566		4.16	10	<1	1.19	20	1.81	757	1	0.02	35	410	11	0.18	4	15
X843567		4.79	10	<1	1.03	20	1.91	960	1	0.02	30	360	13	0.27	24	17
X843568		3.27	<10	1	0.46	20	1.96	676	1	0.02	26	350	19	0.21	7	6
X843569		3.12	10	<1	1.49	30	1.56	412	2	0.03	36	480	7	0.18	2	6
X843570		3.84	10	<1	0.24	10	0.95	636	26	0.22	167	580	318	0.45	5	3
X843571		2.64	<10	<1	0.99	10	1.72	486	3	0.03	45	330	15	0.17	6	20
X843572		3.62	10	<1	1.29	20	1.64	1090	1	0.01	39	350	24	0.04	3	13
X843573		3.10	<10	1	0.88	40	0.72	770	2	0.01	7	380	12	0.32	<2	4
X843574		4.72	10	1	1.80	20	2.01	1090	2	0.02	29	330	11	0.68	2	9
X843575		2.57	<10	1	0.51	40	0.33	556	2	0.01	4	140	5	0.14	5	3
X843576		3.50	<10	<1	0.89	30	0.56	551	1	<0.01	3	560	4	0.18	2	5
X843577		1.34	<10	<1	0.23	20	0.05	356	2	<0.01	3	40	7	0.03	<2	1
X843578		1.55	<10	1	0.22	30	0.08	451	2	<0.01	5	150	9	0.03	<2	2
X843579		1.37	<10	<1	0.28	20	0.28	323	1	<0.01	5	180	9	0.04	<2	2
X843580		2.79	10	<1	0.20	10	0.73	375	2	0.17	5	610	3	0.02	<2	2
X843581		1.66	<10	<1	0.46	20	0.54	353	1	0.02	7	260	8	0.12	<2	4
X843582		1.83	<10	<1	0.40	20	0.46	407	1	0.02	8	330	8	0.19	2	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
X843543		49	<20	0.07	<10	<10	34	<10
X843544		114	<20	0.02	<10	<10	51	<10
X843545		94	<20	0.01	<10	<10	15	<10
X843546		111	<20	<0.01	<10	<10	17	<10
X843547		169	20	0.02	<10	<10	21	<10
X843548		185	<20	0.05	<10	<10	39	<10
X843549		113	<20	0.09	<10	<10	56	<10
X843550		99	<20	0.11	<10	<10	72	<10
X843551		278	<20	0.06	<10	<10	65	<10
X843552		316	<20	0.06	<10	<10	67	<10
X843553		837	<20	0.04	<10	<10	59	<10
X843554		88	20	0.07	<10	<10	36	<10
X843555		86	20	0.08	<10	<10	34	<10
X843556		81	20	0.07	<10	<10	30	<10
X843557		79	20	0.10	<10	<10	25	<10
X843558		73	20	0.03	<10	<10	25	<10
X843559		89	20	0.02	<10	<10	42	<10
X843560		79	<20	0.14	<10	<10	100	<10
X843561		146	<20	0.01	<10	<10	34	<10
X843562		93	20	0.02	<10	<10	24	<10
X843563		112	20	0.02	<10	<10	23	<10
X843564		175	<20	<0.01	<10	<10	35	<10
X843565		176	<20	0.02	<10	<10	25	<10
X843566		114	<20	0.11	<10	<10	85	<10
X843567		202	<20	0.10	<10	<10	109	<10
X843568		370	<20	0.03	<10	<10	41	<10
X843569		116	<20	0.13	<10	<10	40	<10
X843570		92	<20	0.15	<10	<10	99	<10
X843571		175	<20	0.04	<10	<10	51	<10
X843572		191	<20	0.07	<10	<10	84	<10
X843573		73	20	0.07	<10	<10	20	<10
X843574		120	<20	0.13	<10	<10	85	<10
X843575		51	20	0.03	<10	<10	6	<10
X843576		75	20	0.09	<10	<10	41	<10
X843577		43	20	<0.01	<10	<10	6	<10
X843578		81	20	<0.01	<10	<10	8	<10
X843579		85	<20	0.01	<10	<10	7	<10
X843580		73	<20	0.13	<10	<10	97	<10
X843581		80	<20	0.03	<10	<10	11	<10
X843582		118	<20	0.02	<10	<10	9	<10

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





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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
X843583		1.71	<10	<1	0.56	20	0.55	390	2	0.04	8	310	7	0.11	<2	3
X843584		1.49	<10	<1	0.43	20	0.37	484	1	0.02	6	250	3	0.27	<2	3
X843585		1.74	<10	<1	0.30	20	0.23	540	2	0.02	5	270	4	0.40	<2	3
X843586		1.26	<10	<1	0.38	20	0.25	420	2	0.01	4	210	6	0.17	<2	2
X843587		1.52	<10	<1	0.38	30	0.33	425	2	0.01	5	270	13	0.20	<2	2
X843588		0.89	<10	<1	0.26	20	0.05	243	2	0.01	3	130	3	0.02	<2	1
X843589		0.99	<10	1	0.28	30	0.05	443	2	0.01	4	130	5	0.02	<2	1
X843590		2.70	10	<1	0.19	10	1.46	453	3	0.31	147	370	8	0.07	<2	3
X843591		1.36	<10	<1	0.30	50	0.33	342	2	0.02	4	90	3	0.35	<2	3
X843592		0.76	<10	<1	0.24	10	0.10	172	1	0.01	2	60	3	0.08	<2	1
X843593		1.07	<10	<1	0.28	10	0.28	271	1	0.02	3	110	5	0.22	<2	2
X843594		1.79	<10	<1	0.56	30	0.43	390	1	0.04	5	460	9	0.15	<2	3
X843595		1.73	<10	<1	0.61	30	0.53	446	2	0.02	8	330	10	0.14	<2	3
X843596		1.45	<10	<1	0.48	30	0.44	417	1	0.02	6	250	11	0.21	<2	3
X843597		1.62	<10	<1	0.64	20	0.61	438	2	0.03	6	290	8	0.14	<2	3
X843598		1.49	<10	<1	0.45	20	0.82	399	1	0.02	6	240	9	0.11	<2	2
X843599		1.66	<10	<1	0.58	10	0.84	400	1	0.02	7	150	5	0.09	<2	3
X843600		2.73	10	<1	0.20	10	0.73	377	2	0.17	5	620	3	0.02	<2	2
X843601		1.82	<10	<1	0.48	20	1.02	489	1	0.02	7	160	6	0.12	<2	3
X843602		1.49	<10	<1	0.39	30	0.57	529	2	0.02	4	210	6	0.09	<2	2





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**CERTIFICATE OF ANALYSIS WH18163843**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.		
	BAG-01	CRU-31	CRU-QC
	LOG-23	PUL-32m	PUL-QC
	WEI-21		LOG-21
			SPL-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA13	Au-ICP21	ME-ICP41