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Finalized Date: 8-NOV-2019
Account: TRUGRO

CERTIFICATE WH19251858

Project: JPR

P.O. No.: 3298

This report is for 48 Percussion samples submitted to our lab in Whitehorse, YT, Canada on 7-OCT-2019.

The following have access to data associated with this certificate:

GREG DAWSON
ANDREW HAMILTON

ISAAC FAGE
MATT HANEWICH

JODIE GIBSON
BEN MCGRATH

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-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Ag-OG46	Ore Grade Ag - Aqua Regia	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS

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:

Saa Traxler, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS WH19251858

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	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	ME-ICP41 Fe % 0.01
1701589		3.60	0.010	<0.2	0.42	6	<10	40	<0.5	<2	0.05	<0.5	2	16	13	0.98
1701590		4.23	0.005	<0.2	0.22	4	<10	20	<0.5	<2	0.02	<0.5	1	8	4	0.78
1701591		2.86	0.020	<0.2	0.20	2	<10	10	<0.5	<2	0.03	<0.5	<1	6	4	0.57
1701592		2.97	<0.005	<0.2	0.23	2	<10	10	<0.5	<2	0.02	<0.5	1	5	6	0.84
1701593		3.16	0.202	3.2	0.16	11	<10	10	<0.5	3	0.01	<0.5	<1	4	17	0.84
1701594		3.41	0.009	<0.2	0.15	3	<10	10	<0.5	<2	0.02	<0.5	1	3	8	0.42
1701595		3.26	0.024	0.3	0.24	3	<10	30	<0.5	<2	0.02	<0.5	2	4	10	0.62
1701596		3.43	0.087	0.8	0.14	13	<10	10	<0.5	<2	0.02	<0.5	1	3	9	0.50
1701597		3.23	<0.005	<0.2	0.22	3	<10	20	<0.5	<2	0.02	<0.5	1	4	5	0.82
1701598		3.83	<0.005	<0.2	0.13	3	<10	20	<0.5	<2	0.01	<0.5	1	4	5	0.75
1701599		3.41	0.019	<0.2	0.19	16	<10	20	<0.5	<2	0.01	<0.5	<1	5	5	0.77
1701600		0.11	4.90	>100	1.04	77	<10	90	<0.5	2	0.59	28.8	9	37	76	2.72
1701601		3.42	0.012	0.2	0.16	13	<10	10	<0.5	<2	0.01	<0.5	1	4	5	0.73
1701602		3.37	<0.005	<0.2	0.19	5	<10	20	<0.5	<2	0.01	<0.5	<1	5	3	0.88
1701603		3.17	<0.005	<0.2	0.36	4	<10	30	<0.5	<2	0.03	<0.5	2	13	8	0.86
1701604		3.27	<0.005	<0.2	0.28	<2	<10	20	<0.5	<2	0.02	<0.5	1	6	2	0.97
1701605		3.71	0.012	<0.2	0.22	<2	<10	20	<0.5	<2	0.02	<0.5	<1	4	2	0.85
1701606		2.96	<0.005	<0.2	0.37	3	<10	30	<0.5	<2	0.03	<0.5	1	13	6	1.12
1701607		2.45	<0.005	<0.2	0.21	2	<10	20	<0.5	<2	0.02	<0.5	1	4	5	0.57
1701608		3.38	0.005	<0.2	0.33	8	<10	30	<0.5	<2	0.02	<0.5	1	5	3	0.76
1701609		3.58	<0.005	<0.2	0.25	3	<10	20	<0.5	<2	0.01	<0.5	2	4	4	1.00
1701610		3.34	<0.005	<0.2	0.35	5	<10	30	<0.5	<2	0.02	<0.5	1	7	5	1.25
1701611		3.17	0.040	0.2	0.20	25	<10	20	<0.5	<2	0.01	<0.5	1	4	7	0.98
1701612		3.44	<0.005	<0.2	0.27	5	<10	20	<0.5	<2	0.02	<0.5	2	5	7	0.87
1701613		3.66	<0.005	<0.2	0.26	2	<10	20	<0.5	<2	0.02	<0.5	1	4	5	0.95
1701614		3.70	0.008	0.4	0.44	2	<10	50	<0.5	<2	0.04	<0.5	2	6	20	1.25
1701615		3.41	0.015	<0.2	0.23	5	<10	30	<0.5	<2	0.02	<0.5	1	4	9	1.09
1701616		3.40	0.081	<0.2	0.32	2	<10	40	<0.5	<2	0.03	<0.5	2	5	8	1.02
1701617		3.69	<0.005	<0.2	0.29	2	<10	30	<0.5	<2	0.05	0.5	2	4	7	0.83
1701618		3.76	0.028	<0.2	0.35	3	<10	30	<0.5	<2	0.03	<0.5	2	5	4	0.93
1701619		3.51	0.007	0.6	0.37	5	<10	30	<0.5	2	0.03	<0.5	1	7	9	0.91
1701620		0.66	<0.005	<0.2	0.01	<2	<10	20	<0.5	<2	>25.0	<0.5	1	<1	3	0.08
1701621		3.26	<0.005	<0.2	0.40	2	<10	30	<0.5	<2	0.07	<0.5	3	4	6	1.11
1701622		3.21	0.021	<0.2	0.58	3	<10	60	<0.5	<2	0.10	<0.5	2	6	4	1.23
1701623		2.90	0.134	<0.2	0.27	13	<10	40	0.6	<2	0.07	<0.5	4	5	2	1.12
1701624		3.62	0.124	<0.2	0.31	16	<10	40	0.5	<2	0.07	<0.5	3	7	2	1.43
1701625		2.75	0.013	<0.2	0.30	9	<10	30	0.7	<2	0.15	<0.5	4	5	2	1.30
1701626		3.12	0.005	<0.2	0.78	5	<10	90	0.6	<2	0.37	<0.5	5	5	2	1.50
1701627		3.29	<0.005	<0.2	0.79	4	<10	50	0.7	<2	3.25	<0.5	4	4	1	1.85
1701628		3.87	<0.005	<0.2	1.04	4	<10	60	<0.5	<2	0.36	<0.5	5	6	2	2.02



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CERTIFICATE OF ANALYSIS WH19251858

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
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		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	ppm 1
1701589		<10	<1	0.13	20	0.14	180	4	0.02	9	60	4	<0.01	<2	2
1701590		<10	<1	0.11	10	0.02	202	2	0.03	4	30	3	<0.01	<2	1
1701591		<10	<1	0.10	10	0.03	134	7	0.02	2	30	3	<0.01	<2	1
1701592		<10	<1	0.12	10	0.01	128	2	0.04	2	30	3	<0.01	<2	1
1701593		<10	1	0.08	10	0.01	68	7	0.02	1	20	12	0.02	<2	<1
1701594		<10	<1	0.06	10	0.01	106	2	0.03	1	20	3	<0.01	<2	<1
1701595		<10	<1	0.12	20	0.01	398	2	0.04	2	30	5	<0.01	<2	1
1701596		<10	<1	0.07	10	0.01	61	3	0.03	1	30	7	<0.01	<2	<1
1701597		<10	<1	0.13	30	0.01	125	1	0.04	2	30	6	<0.01	<2	1
1701598		<10	<1	0.08	20	0.01	114	1	0.02	1	40	4	0.02	<2	1
1701599		<10	<1	0.11	30	0.01	102	2	0.04	2	70	5	<0.01	<2	1
1701600		10	2	0.15	10	0.44	323	459	0.06	30	420	901	1.03	150	3
1701601		<10	<1	0.09	10	0.02	74	2	0.02	2	40	8	0.01	<2	1
1701602		<10	1	0.11	10	0.02	65	2	0.05	2	30	4	0.01	<2	1
1701603		<10	<1	0.19	20	0.14	504	4	0.02	6	60	5	0.01	<2	2
1701604		<10	<1	0.18	10	0.04	161	1	0.04	2	40	3	<0.01	<2	1
1701605		<10	1	0.13	20	0.03	69	4	0.02	1	40	4	<0.01	<2	1
1701606		<10	<1	0.18	30	0.08	83	1	0.04	4	110	16	0.03	<2	2
1701607		<10	<1	0.10	20	0.02	60	24	0.02	2	50	7	0.04	<2	1
1701608		<10	<1	0.16	40	0.02	195	1	0.03	2	70	12	0.07	<2	1
1701609		<10	<1	0.15	20	0.04	106	1	0.02	2	90	11	0.03	<2	1
1701610		<10	<1	0.16	20	0.05	86	2	0.05	3	170	3	0.05	<2	1
1701611		<10	<1	0.12	20	0.04	47	1	0.04	1	90	24	0.30	<2	1
1701612		<10	<1	0.15	20	0.05	114	1	0.05	2	50	6	0.15	<2	1
1701613		<10	<1	0.14	20	0.06	101	1	0.04	2	80	7	0.09	<2	1
1701614		<10	<1	0.21	30	0.07	255	1	0.05	2	100	8	0.09	<2	1
1701615		<10	<1	0.14	40	0.03	475	1	0.03	2	70	10	0.20	<2	1
1701616		<10	<1	0.20	20	0.05	98	1	0.05	2	90	3	0.15	<2	1
1701617		<10	<1	0.17	40	0.07	136	1	0.04	2	100	9	0.16	<2	1
1701618		<10	<1	0.21	40	0.07	114	1	0.05	2	80	4	0.14	<2	1
1701619		<10	<1	0.21	20	0.09	106	21	0.03	2	110	158	0.05	<2	1
1701620		<10	1	0.01	<10	0.57	59	<1	0.01	<1	80	<2	0.01	<2	<1
1701621		<10	<1	0.21	20	0.10	169	2	0.02	3	110	10	0.02	<2	1
1701622		<10	1	0.33	30	0.13	188	1	0.04	3	140	4	0.09	<2	1
1701623		<10	<1	0.21	20	0.06	643	2	0.03	3	130	11	0.36	<2	1
1701624		<10	<1	0.22	20	0.06	558	3	0.05	3	130	4	0.40	<2	1
1701625		<10	<1	0.21	30	0.12	578	1	0.03	2	190	7	0.22	<2	2
1701626		<10	<1	0.43	30	0.24	508	1	0.03	3	260	6	0.10	<2	2
1701627		<10	<1	0.47	30	0.35	1220	1	0.02	2	250	5	0.08	<2	3
1701628		<10	<1	0.63	30	0.38	509	1	0.04	2	250	7	0.11	<2	3



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Sample Description	Method Analyte Units LOD	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Ag-OG46 Ag ppm 1	ME-MS42 Te ppm 0.01
1701589		30	0.02	<10	<10	11	<10	16		0.05
1701590		30	<0.01	<10	<10	2	<10	5		0.02
1701591		30	<0.01	<10	<10	2	<10	8		0.01
1701592		20	<0.01	<10	<10	1	<10	6		0.01
1701593		20	<0.01	<10	<10	1	<10	6		1.37
1701594		30	<0.01	<10	<10	1	<10	4		0.04
1701595		20	<0.01	<10	<10	1	<10	4		0.04
1701596		20	<0.01	<10	<10	1	<10	3		0.48
1701597		20	<0.01	<10	<10	1	<10	10		0.02
1701598		30	<0.01	<10	<10	2	<10	7		0.02
1701599		30	<0.01	<10	<10	2	<10	5		0.03
1701600		<20	0.08	<10	<10	55	20	2820	96	0.43
1701601		20	<0.01	<10	<10	2	<10	9		0.12
1701602		20	0.01	<10	<10	2	<10	7		0.01
1701603		20	0.02	<10	<10	8	<10	18		0.01
1701604		20	0.01	<10	<10	2	<10	13		0.01
1701605		20	0.01	<10	<10	2	<10	11		0.01
1701606		20	0.01	<10	<10	9	<10	13		0.01
1701607		20	<0.01	<10	<10	2	<10	12		0.01
1701608		20	<0.01	<10	<10	2	<10	14		0.01
1701609		20	0.01	<10	<10	4	<10	24		0.01
1701610		20	0.01	<10	<10	7	<10	18		0.01
1701611		20	0.01	<10	<10	5	10	22		0.03
1701612		20	0.01	<10	<10	3	10	14		<0.01
1701613		20	0.01	<10	<10	6	<10	20		0.01
1701614		20	0.01	<10	<10	5	<10	24		0.02
1701615		20	0.01	<10	<10	5	<10	14		0.01
1701616		20	0.01	<10	<10	4	<10	12		0.01
1701617		20	0.01	<10	<10	4	<10	20		0.01
1701618		20	0.01	<10	<10	5	<10	16		0.01
1701619		20	0.01	<10	<10	5	<10	22		0.04
1701620		<20	<0.01	<10	<10	<1	<10	2		0.01
1701621		20	0.02	<10	<10	6	<10	34		0.01
1701622		20	0.02	<10	<10	6	<10	34		<0.01
1701623		20	<0.01	<10	<10	3	<10	22		0.02
1701624		20	0.01	<10	<10	6	<10	20		0.05
1701625		20	0.01	<10	<10	11	<10	30		0.03
1701626		20	0.04	<10	<10	12	<10	32		<0.01
1701627		<20	0.04	<10	<10	16	<10	42		0.02
1701628		20	0.07	<10	<10	22	<10	41		0.01



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1701629		3.71	0.009	0.2	0.59	4	<10	40	<0.5	<2	0.63	<0.5	5	11	8	2.07
1701630		3.40	<0.005	<0.2	0.77	<2	<10	100	<0.5	<2	0.39	<0.5	4	6	2	1.69
1701631		3.14	<0.005	<0.2	0.97	<2	<10	120	<0.5	<2	0.29	<0.5	4	6	4	1.81
1701632		2.14	<0.005	<0.2	0.66	6	<10	50	<0.5	<2	0.12	<0.5	4	5	3	1.75
1701633		2.54	0.006	0.2	0.67	3	<10	40	<0.5	<2	0.12	<0.5	3	8	4	1.61
1701634		2.26	<0.005	<0.2	0.71	<2	<10	30	<0.5	<2	0.09	<0.5	3	8	6	1.73
1701635		2.73	<0.005	<0.2	0.78	3	<10	50	<0.5	<2	0.18	<0.5	5	15	5	2.08
1701636		3.10	<0.005	<0.2	0.58	3	<10	30	<0.5	<2	0.14	<0.5	3	10	4	1.76



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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
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		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	ppm 1
1701629		<10	<1	0.39	30	0.34	550	1	0.07	4	250	21	0.30	<2	4
1701630		<10	<1	0.51	30	0.30	415	1	0.04	2	260	4	0.09	<2	2
1701631		<10	<1	0.59	30	0.30	487	1	0.05	3	250	7	0.07	<2	2
1701632		<10	<1	0.41	20	0.26	334	1	0.05	2	220	6	0.06	<2	3
1701633		<10	<1	0.43	20	0.26	343	2	0.06	2	190	6	0.05	<2	2
1701634		<10	<1	0.47	20	0.30	360	2	0.04	3	180	5	0.04	<2	3
1701635		<10	<1	0.53	30	0.40	567	3	0.06	6	230	7	0.06	<2	4
1701636		<10	<1	0.34	40	0.24	435	2	0.08	4	170	5	0.05	<2	2



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CERTIFICATE OF ANALYSIS WH19251858

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-OG46	ME-MS42
		Th	Ti	Tl	U	V	W	Zn	Ag	Te
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	ppm 1	ppm 0.01
1701629		20	0.04	<10	<10	22	<10	38		0.03
1701630		20	0.04	<10	10	13	<10	34		0.01
1701631		20	0.05	<10	10	13	<10	40		0.01
1701632		<20	0.04	<10	<10	19	<10	38		0.01
1701633		<20	0.05	<10	<10	16	<10	35		0.02
1701634		<20	0.06	<10	<10	18	<10	37		0.01
1701635		<20	0.06	<10	<10	29	<10	48		0.01
1701636		20	0.04	<10	<10	18	<10	31		0.01



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CERTIFICATE OF ANALYSIS WH19251858

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.		
	Ag-OG46	Au-AA23	ME-ICP41
	ME-OG46		
			ME-MS42