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Finalized Date: 25-JUN-2019  
Account: TRUGRO

**CERTIFICATE WH19144488**

Project: JPR  
P.O. No.: 1505  
This report is for 40 Rock samples submitted to our lab in Whitehorse, YT, Canada on 14-JUN-2019.

The following have access to data associated with this certificate:

GREG DAWSON  
ANDREW HAMILTON

ISAAC FAGE  
BEN MCGRATH

JODIE GIBSON

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	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:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH19144488**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA25 Au ppm 0.01	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
1626199		1.07	0.20	0.5	1.80	5	<10	170	<0.5	<2	0.95	<0.5	15	21	21	3.52
1626200		1.01	0.04	0.4	2.01	5	<10	170	<0.5	<2	2.10	<0.5	14	19	21	3.54
1626201		0.80	0.11	0.7	1.48	8	<10	200	<0.5	<2	0.37	0.9	9	13	39	2.60
1626202		0.97	0.10	0.3	1.57	4	<10	170	<0.5	<2	1.43	<0.5	11	14	18	2.95
1626203		1.02	0.07	0.2	1.13	4	<10	150	<0.5	<2	1.56	<0.5	6	6	8	1.86
1626204		1.04	0.17	0.7	1.52	8	<10	200	<0.5	<2	0.40	0.6	10	14	23	2.65
1626205		1.01	0.02	0.2	1.27	3	<10	180	<0.5	<2	1.77	<0.5	9	7	10	2.35
1626206		1.18	0.04	<0.2	1.27	4	<10	180	0.5	<2	1.53	<0.5	8	8	11	2.17
1626207		1.11	0.04	0.2	1.26	4	<10	160	<0.5	<2	1.01	<0.5	8	10	13	2.13
1626208		0.98	0.03	0.2	1.28	5	<10	160	<0.5	<2	0.83	<0.5	8	11	14	2.53
1626209		0.98	0.58	1.0	0.83	11	<10	170	<0.5	<2	0.75	<0.5	7	7	28	2.27
1626221		0.89	0.07	0.7	0.97	16	<10	180	0.8	<2	0.22	2.4	11	14	126	4.88
1626222		0.83	1.46	1.1	0.69	26	<10	150	<0.5	<2	0.09	1.2	3	6	28	1.96
1626223		0.93	0.07	0.4	1.25	12	<10	200	<0.5	2	0.37	1.1	8	24	45	2.25
1626224		0.86	0.03	0.3	1.99	5	<10	210	<0.5	<2	0.39	<0.5	12	18	44	2.91
1626225		0.67	0.01	0.2	2.20	3	<10	280	<0.5	<2	0.83	<0.5	14	18	25	3.24
1626226		0.88	<0.01	0.2	0.03	4	<10	10	<0.5	<2	>25.0	<0.5	1	<1	1	0.06
1626227		1.02	<0.01	<0.2	2.61	2	<10	250	<0.5	<2	2.41	<0.5	18	38	22	4.00
1626228		0.80	<0.01	<0.2	1.41	3	<10	250	<0.5	<2	0.71	<0.5	9	10	11	2.37
1626229		0.96	<0.01	<0.2	1.40	3	<10	150	<0.5	<2	0.29	<0.5	7	6	6	2.00
1626230		0.79	0.01	0.3	1.44	3	<10	180	0.5	<2	0.35	<0.5	9	5	19	2.65
1626231		0.86	0.04	0.4	1.12	3	<10	110	<0.5	<2	1.00	<0.5	7	4	25	2.09
1626232		0.72	0.01	<0.2	1.78	3	<10	240	<0.5	<2	0.42	<0.5	10	6	13	2.70
1626233		0.97	0.05	<0.2	0.45	2	<10	70	<0.5	<2	0.05	<0.5	1	5	7	0.85
1626234		0.75	0.01	0.2	0.42	2	<10	60	<0.5	<2	0.04	<0.5	1	4	5	0.58
1626235		0.85	0.05	0.3	0.89	5	<10	100	0.7	2	0.13	<0.5	4	5	21	1.80
1626236		0.82	0.02	0.2	0.43	3	<10	60	<0.5	2	0.05	<0.5	1	3	17	0.81
1626033		0.98	1.49	5.0	0.60	55	<10	110	<0.5	8	0.05	<0.5	2	4	54	2.68
1626034		1.00	0.70	5.9	0.79	48	<10	140	<0.5	7	0.11	<0.5	4	4	55	2.01
1626237		0.93	0.78	8.3	0.61	88	<10	120	<0.5	16	0.05	<0.5	2	4	56	2.46
1626238		0.96	0.81	4.4	0.73	81	<10	130	<0.5	8	0.06	<0.5	3	8	75	2.30
1626239		0.90	0.05	1.4	0.71	16	<10	140	<0.5	2	0.10	<0.5	6	4	27	1.52
1626240		1.06	0.14	1.4	0.81	25	<10	180	<0.5	2	0.16	<0.5	7	7	29	1.82
1626241		0.89	0.08	1.0	0.88	21	<10	170	<0.5	3	0.23	<0.5	6	10	23	1.77
1626242		0.97	0.04	0.6	0.64	12	<10	130	<0.5	2	0.12	<0.5	4	6	18	1.43
1626243		0.75	4.57	11.2	0.84	89	<10	120	<0.5	47	0.18	<0.5	6	10	46	2.59
1626244		0.81	0.95	2.2	0.74	41	<10	130	<0.5	5	0.25	<0.5	5	9	31	1.74
1626245		0.97	0.09	0.9	0.80	12	<10	140	<0.5	2	0.17	<0.5	5	12	17	1.64
1626246		0.89	0.12	2.2	0.97	24	<10	160	<0.5	4	0.31	<0.5	6	13	30	1.88
1626247		0.77	0.19	2.7	0.71	33	<10	100	<0.5	7	0.19	<0.5	4	9	25	1.56



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**CERTIFICATE OF ANALYSIS WH19144488**

Sample Description	Method Analyte Units LOD	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
1626199		<10	<1	0.35	20	1.02	1030	1	0.02	12	380	543	0.02	<2	5	25
1626200		10	1	0.40	20	1.09	1145	<1	0.02	12	420	146	0.01	<2	6	47
1626201		<10	1	0.37	20	0.55	796	1	0.02	11	310	401	0.03	<2	4	18
1626202		<10	<1	0.34	10	0.79	747	1	0.03	8	350	98	0.01	<2	4	38
1626203		<10	<1	0.39	20	0.41	724	<1	0.02	4	280	48	0.01	<2	2	32
1626204		<10	<1	0.43	10	0.67	880	1	0.02	10	330	399	0.02	<2	4	17
1626205		<10	<1	0.40	20	0.44	856	1	0.02	6	310	54	0.01	<2	3	43
1626206		<10	<1	0.44	20	0.34	766	1	0.02	7	340	83	0.01	<2	4	30
1626207		<10	<1	0.40	20	0.49	676	1	0.03	6	310	121	0.01	<2	3	31
1626208		<10	<1	0.42	20	0.49	706	1	0.03	6	320	104	0.01	<2	3	24
1626209		<10	<1	0.37	30	0.15	1185	4	0.01	4	330	45	0.01	<2	2	18
1626221		<10	<1	0.34	30	0.19	550	7	0.03	27	450	132	0.10	<2	3	29
1626222		<10	<1	0.42	20	0.08	209	4	0.01	11	420	119	0.10	<2	1	32
1626223		<10	1	0.29	20	0.44	526	3	0.03	26	1140	229	0.01	<2	3	20
1626224		10	<1	0.64	30	1.03	837	1	0.03	11	350	54	0.01	<2	4	23
1626225		10	<1	0.67	10	1.24	856	1	0.03	10	370	18	0.01	<2	5	27
1626226		<10	<1	0.01	<10	0.57	93	<1	<0.01	3	70	3	<0.01	<2	<1	92
1626227		10	<1	0.73	10	1.73	1030	<1	0.02	14	410	12	0.01	<2	9	52
1626228		<10	<1	0.51	20	0.52	1030	1	0.02	4	340	12	0.01	<2	5	16
1626229		<10	<1	0.58	20	0.54	414	<1	0.03	3	250	4	0.01	<2	4	12
1626230		<10	<1	0.41	20	0.57	937	<1	0.02	5	440	13	0.01	<2	4	13
1626231		<10	<1	0.34	20	0.45	1120	1	0.02	3	310	15	0.01	<2	2	18
1626232		<10	<1	0.68	10	0.85	623	1	0.04	3	310	6	0.02	<2	5	23
1626233		<10	<1	0.20	30	0.06	292	1	0.03	3	80	8	0.01	<2	1	5
1626234		<10	<1	0.20	30	0.03	240	<1	0.02	2	60	6	0.01	<2	1	4
1626235		<10	<1	0.36	40	0.16	627	1	0.02	4	520	14	0.01	<2	3	7
1626236		<10	<1	0.17	30	0.04	356	1	0.02	2	60	9	<0.01	<2	1	5
1626033		<10	<1	0.40	20	0.05	147	4	0.03	2	240	190	0.20	<2	1	13
1626034		<10	<1	0.42	20	0.11	310	2	0.03	2	320	208	0.08	<2	2	8
1626237		<10	<1	0.41	20	0.05	180	1	0.02	2	260	166	0.11	<2	1	17
1626238		<10	<1	0.41	20	0.06	348	2	0.01	4	230	167	0.07	<2	1	9
1626239		<10	<1	0.33	20	0.05	620	1	0.03	2	280	17	0.01	<2	1	6
1626240		<10	<1	0.38	30	0.13	890	2	0.02	6	330	26	0.01	<2	2	12
1626241		<10	<1	0.32	20	0.20	529	1	0.03	8	380	32	0.02	<2	2	17
1626242		<10	1	0.35	30	0.07	557	1	0.02	4	280	18	0.01	<2	1	7
1626243		<10	<1	0.29	20	0.17	484	3	0.02	7	260	753	0.08	<2	2	12
1626244		<10	<1	0.26	20	0.20	516	2	0.02	6	240	72	0.06	<2	2	15
1626245		<10	<1	0.30	20	0.17	546	2	0.02	7	270	28	0.02	<2	2	11
1626246		<10	<1	0.29	20	0.25	347	1	0.03	9	370	47	0.03	<2	2	18
1626247		<10	1	0.24	20	0.17	257	2	0.02	5	210	54	0.05	<2	2	12



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**CERTIFICATE OF ANALYSIS WH19144488**

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-MS42
		Th	Ti	Ti	U	V	W	Zn	Te
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	ppm 0.01
1626199		<20	0.02	<10	<10	43	<10	110	0.01
1626200		<20	0.03	<10	<10	47	<10	112	0.01
1626201		<20	0.03	<10	<10	33	<10	92	0.02
1626202		<20	0.02	<10	<10	37	<10	90	0.01
1626203		<20	0.02	<10	<10	19	<10	52	0.01
1626204		<20	0.03	<10	<10	34	<10	91	0.02
1626205		<20	0.02	<10	<10	22	<10	59	0.01
1626206		<20	0.04	<10	<10	29	<10	58	0.01
1626207		<20	0.03	<10	<10	25	<10	67	0.01
1626208		<20	0.03	<10	<10	28	<10	70	0.01
1626209		<20	0.01	<10	<10	13	<10	33	0.07
1626221		<20	0.03	<10	<10	33	<10	168	0.09
1626222		<20	0.01	<10	<10	15	<10	64	0.09
1626223		<20	0.04	<10	<10	79	<10	150	0.05
1626224		<20	0.08	<10	<10	53	<10	72	0.01
1626225		<20	0.08	<10	<10	50	<10	69	<0.01
1626226		<20	<0.01	<10	<10	1	<10	2	<0.01
1626227		<20	0.08	<10	<10	85	<10	77	0.01
1626228		<20	0.03	<10	<10	38	<10	55	<0.01
1626229		<20	0.05	<10	<10	29	<10	56	<0.01
1626230		<20	0.02	<10	<10	30	<10	67	0.01
1626231		<20	0.01	<10	<10	19	<10	62	0.07
1626232		<20	0.08	<10	<10	47	<10	54	0.01
1626233		20	0.01	<10	<10	5	<10	8	0.02
1626234		20	<0.01	<10	<10	2	<10	6	<0.01
1626235		20	0.02	<10	<10	20	<10	35	0.07
1626236		20	<0.01	<10	<10	4	<10	8	0.03
1626033		<20	0.01	<10	<10	9	<10	15	0.25
1626034		<20	0.02	<10	<10	9	<10	30	0.07
1626237		<20	0.01	<10	<10	7	<10	19	0.07
1626238		<20	0.01	<10	<10	10	<10	19	0.02
1626239		<20	0.01	<10	<10	7	<10	31	0.01
1626240		<20	0.02	<10	<10	12	<10	34	0.02
1626241		<20	0.03	<10	<10	20	<10	32	0.02
1626242		<20	0.01	<10	<10	9	<10	24	0.01
1626243		<20	0.03	<10	<10	21	<10	34	0.15
1626244		<20	0.02	<10	<10	18	<10	23	0.07
1626245		<20	0.02	<10	<10	17	<10	29	0.03
1626246		<20	0.04	<10	<10	26	<10	32	0.06
1626247		<20	0.02	<10	<10	16	<10	22	0.07



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**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.	
	CRU-31	CRU-QC
	PUL-QC	SPL-21
		LOG-22
		WEI-21
		PUL-31
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.	
	Au-AA25	ME-ICP41
		ME-MS42