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Page: 1
Total # Pages: 3 (A - C)
Plus Appendix Pages
Finalized Date: 10-JUN-2019
Account: TRUGRO

CERTIFICATE WH19128826

Project: JPR
P.O. No.: 1388
This report is for 48 Rock samples submitted to our lab in Whitehorse, YT, Canada on 28-MAY-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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Page: 2 - A
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CERTIFICATE OF ANALYSIS WH19128826

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
1626151		0.75	0.02	<0.2	0.44	<2	<10	60	<0.5	<2	0.06	<0.5	2	8	5	0.94
1626152		0.61	0.02	<0.2	0.77	6	<10	80	<0.5	<2	0.07	<0.5	5	12	7	1.27
1626153		0.71	0.15	<0.2	0.78	5	<10	70	<0.5	<2	0.06	<0.5	4	13	8	1.30
1626154		0.95	0.10	0.4	0.41	5	<10	40	<0.5	3	0.03	<0.5	3	6	5	1.22
1626155		0.64	0.02	0.3	0.41	5	<10	40	<0.5	<2	0.04	<0.5	3	8	5	0.96
1626156		0.97	0.03	<0.2	1.87	<2	<10	160	0.5	2	0.83	<0.5	14	77	5	3.01
1626157		0.79	0.03	<0.2	0.45	3	<10	40	<0.5	<2	0.07	<0.5	2	8	5	1.03
1626158		0.77	0.14	0.2	0.36	3	<10	40	<0.5	<2	0.05	<0.5	2	6	3	0.84
1626159		1.00	0.02	<0.2	0.27	3	<10	30	<0.5	<2	0.03	<0.5	1	6	3	0.65
1626160		1.00	0.10	0.3	0.66	4	<10	80	<0.5	2	0.05	<0.5	4	10	10	1.19
1626161		0.94	0.04	0.2	0.58	6	<10	70	<0.5	<2	0.07	<0.5	4	9	9	1.19
1626162		0.78	0.03	0.3	1.10	3	<10	160	<0.5	<2	0.19	<0.5	7	7	23	1.93
1626163		0.90	0.01	0.3	1.22	2	<10	170	<0.5	2	0.22	<0.5	7	6	27	2.05
1626164		0.93	0.01	<0.2	1.15	<2	<10	150	<0.5	2	0.23	<0.5	7	6	14	1.76
1626165		0.88	0.01	<0.2	1.11	2	<10	130	<0.5	<2	0.24	<0.5	7	7	18	1.76
1626166		0.86	0.01	<0.2	1.18	2	<10	150	<0.5	<2	0.24	<0.5	6	6	17	1.84
1626167		0.98	0.01	0.4	1.26	<2	<10	170	<0.5	2	0.34	<0.5	8	7	58	2.10
1626168		1.02	0.03	1.3	1.02	8	<10	210	0.5	2	0.17	<0.5	9	5	85	2.41
1626169		1.04	0.04	0.4	1.15	5	<10	210	<0.5	<2	0.27	<0.5	8	9	33	2.34
1626170		0.93	0.01	0.3	1.51	2	<10	290	<0.5	<2	0.27	<0.5	9	5	38	2.46
1626171		0.98	0.23	0.5	0.80	6	<10	130	<0.5	2	0.16	<0.5	6	13	18	1.47
1626172		0.74	0.03	0.3	0.60	8	<10	130	<0.5	<2	0.11	<0.5	4	9	16	1.17
1626173		0.93	0.12	0.4	0.62	15	<10	130	<0.5	3	0.10	<0.5	5	10	20	1.24
1626174		1.00	0.05	0.5	0.77	9	<10	130	<0.5	<2	0.12	<0.5	5	14	25	1.42
1626175		0.75	0.04	0.5	0.86	6	<10	140	<0.5	2	0.13	<0.5	6	15	26	1.55
1626176		0.75	0.01	<0.2	0.02	<2	20	10	<0.5	<2	>25.0	<0.5	<1	<1	<1	0.06
1626177		0.80	0.01	0.2	1.13	3	<10	170	<0.5	<2	0.25	<0.5	7	7	20	1.80
1626178		0.85	0.06	0.6	1.47	2	<10	230	<0.5	<2	0.41	<0.5	9	5	30	2.80
1626179		0.99	0.01	0.5	1.27	3	<10	190	0.5	<2	0.21	<0.5	9	6	81	2.57
1626180		0.71	0.01	0.5	0.99	2	<10	160	<0.5	2	0.18	<0.5	6	6	79	1.74
1626181		0.87	0.01	<0.2	0.73	2	<10	130	<0.5	<2	0.12	<0.5	4	5	20	1.49
1626182		0.80	0.01	<0.2	0.75	4	<10	100	<0.5	<2	0.09	<0.5	5	8	15	1.39
1626183		0.47	0.01	<0.2	0.50	3	<10	70	<0.5	<2	0.08	<0.5	3	7	14	0.98
1626184		1.06	0.22	0.6	0.61	5	<10	90	<0.5	2	0.09	<0.5	4	10	24	1.27
1626185		0.99	0.04	0.5	0.66	5	<10	120	<0.5	<2	0.12	<0.5	5	10	32	1.30
1626186		0.97	0.18	4.4	1.10	13	<10	180	0.5	5	0.18	<0.5	7	17	33	1.85
1626187		0.77	0.09	0.4	0.77	8	<10	150	<0.5	2	0.13	<0.5	6	11	24	1.45
1626188		0.96	0.04	0.8	0.57	4	<10	80	<0.5	2	0.13	<0.5	4	13	22	1.32
1626189		0.92	0.01	0.4	0.47	4	<10	70	<0.5	2	0.07	<0.5	3	8	17	0.96
1626190		0.99	0.53	0.8	0.35	4	<10	80	<0.5	4	0.21	<0.5	2	7	16	1.01



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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
1626151		<10	<1	0.17	30	0.07	249	1	0.03	5	110	5	0.01	<2	1	7
1626152		<10	<1	0.11	20	0.12	265	1	0.03	7	120	4	<0.01	<2	1	8
1626153		<10	<1	0.11	20	0.14	215	1	0.03	8	80	6	<0.01	<2	1	7
1626154		<10	<1	0.16	20	0.04	177	7	0.03	3	90	10	0.01	<2	1	5
1626155		<10	<1	0.13	20	0.04	179	1	0.03	3	70	7	<0.01	<2	1	5
1626156		<10	<1	0.71	20	1.31	809	1	0.02	63	360	8	<0.01	<2	5	14
1626157		<10	<1	0.15	30	0.07	252	1	0.03	3	100	7	<0.01	<2	1	7
1626158		<10	<1	0.13	20	0.04	135	2	0.03	3	90	3	<0.01	<2	1	6
1626159		<10	<1	0.15	20	0.02	138	1	0.03	1	60	2	<0.01	<2	<1	4
1626160		<10	<1	0.15	20	0.10	306	1	0.02	6	90	18	<0.01	<2	2	7
1626161		<10	<1	0.15	30	0.09	316	1	0.03	5	110	17	<0.01	<2	1	8
1626162		<10	<1	0.39	20	0.35	802	1	0.02	5	280	10	0.01	<2	2	11
1626163		<10	<1	0.49	20	0.49	713	1	0.02	3	260	8	<0.01	<2	3	13
1626164		<10	1	0.38	10	0.47	555	1	0.03	4	220	5	<0.01	<2	2	16
1626165		<10	<1	0.34	20	0.45	568	1	0.03	5	200	6	0.01	<2	2	16
1626166		<10	<1	0.39	10	0.47	580	1	0.02	5	190	6	<0.01	<2	2	16
1626167		<10	<1	0.47	20	0.51	892	1	0.02	4	290	10	0.01	<2	3	15
1626168		<10	<1	0.39	20	0.30	1430	4	0.01	6	350	19	0.01	<2	3	8
1626169		<10	<1	0.38	20	0.37	808	1	0.02	6	280	14	0.01	<2	4	13
1626170		<10	<1	0.63	20	0.62	729	1	0.02	4	310	8	<0.01	<2	4	12
1626171		<10	<1	0.16	20	0.18	441	2	0.02	7	120	18	0.01	<2	2	11
1626172		<10	<1	0.18	20	0.10	475	1	0.02	7	130	25	0.01	<2	2	10
1626173		<10	<1	0.18	20	0.11	484	2	0.01	6	120	45	0.01	<2	2	9
1626174		<10	1	0.17	20	0.15	327	2	0.02	9	110	14	0.01	<2	2	12
1626175		<10	<1	0.16	20	0.16	360	1	0.02	10	120	10	0.03	<2	3	13
1626176		<10	<1	<0.01	<10	0.39	93	<1	<0.01	4	70	<2	0.01	<2	<1	79
1626177		<10	<1	0.40	10	0.45	630	1	0.02	4	260	5	<0.01	<2	2	14
1626178		<10	<1	0.54	10	0.55	903	1	0.02	4	330	10	<0.01	<2	5	10
1626179		<10	<1	0.39	20	0.46	988	1	0.02	6	500	12	0.01	<2	3	9
1626180		<10	1	0.32	20	0.31	570	1	0.02	5	290	7	0.01	<2	2	11
1626181		<10	<1	0.27	20	0.24	490	1	0.04	4	130	6	<0.01	<2	2	10
1626182		<10	1	0.23	10	0.18	359	1	0.02	4	110	7	<0.01	<2	1	9
1626183		<10	1	0.16	20	0.10	342	1	0.02	3	80	6	<0.01	<2	1	7
1626184		<10	<1	0.17	20	0.14	330	1	0.02	4	90	16	<0.01	<2	1	8
1626185		<10	<1	0.18	20	0.15	391	1	0.02	6	90	13	0.01	<2	2	10
1626186		<10	<1	0.19	20	0.23	452	2	0.02	12	140	22	0.01	<2	3	16
1626187		<10	<1	0.18	20	0.14	553	2	0.02	9	120	19	<0.01	<2	2	12
1626188		<10	<1	0.17	30	0.09	475	2	0.02	6	120	10	<0.01	<2	2	10
1626189		<10	<1	0.16	20	0.06	248	1	0.02	5	70	7	0.01	<2	1	7
1626190		<10	<1	0.19	20	0.03	558	2	0.02	4	80	15	<0.01	<2	1	6



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Page: 2 - C
 Total # Pages: 3 (A - C)
 Plus Appendix Pages
 Finalized Date: 10-JUN-2019
 Account: TRUGRO

Project: JPR

CERTIFICATE OF ANALYSIS WH19128826

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
1626151		20	0.01	<10	<10	9	<10	9	0.04
1626152		<20	0.03	<10	<10	21	<10	15	0.03
1626153		<20	0.03	<10	<10	20	<10	15	0.02
1626154		20	0.01	<10	<10	8	<10	7	0.22
1626155		<20	0.01	<10	<10	8	<10	6	0.06
1626156		<20	0.10	<10	<10	40	<10	79	0.02
1626157		20	0.01	<10	<10	9	<10	11	0.04
1626158		20	0.01	<10	<10	7	<10	6	0.15
1626159		20	<0.01	<10	<10	2	<10	3	0.05
1626160		<20	0.02	<10	<10	15	<10	13	0.02
1626161		20	0.02	<10	<10	13	<10	11	0.02
1626162		<20	0.04	<10	<10	20	<10	35	0.02
1626163		<20	0.05	<10	<10	23	<10	58	0.02
1626164		<20	0.04	<10	<10	20	<10	43	0.01
1626165		<20	0.05	<10	<10	21	<10	38	0.01
1626166		<20	0.05	<10	<10	22	<10	46	0.01
1626167		<20	0.05	<10	<10	23	<10	55	0.02
1626168		<20	0.01	<10	<10	15	<10	50	0.03
1626169		<20	0.04	<10	<10	27	<10	53	0.02
1626170		<20	0.07	<10	<10	34	<10	60	<0.01
1626171		20	0.03	<10	<10	21	<10	23	0.03
1626172		<20	0.02	<10	<10	14	<10	15	0.02
1626173		<20	0.02	<10	<10	15	<10	15	0.05
1626174		<20	0.03	<10	<10	20	<10	18	0.05
1626175		<20	0.03	<10	<10	22	<10	21	0.08
1626176		<20	<0.01	<10	<10	<1	<10	<2	<0.01
1626177		<20	0.05	<10	<10	20	<10	39	0.01
1626178		<20	0.05	<10	<10	34	<10	61	<0.01
1626179		<20	0.02	<10	<10	24	<10	67	0.01
1626180		<20	0.03	<10	<10	18	<10	50	0.02
1626181		20	0.03	<10	<10	16	<10	31	0.01
1626182		<20	0.03	<10	<10	18	<10	24	0.02
1626183		20	0.02	<10	<10	10	<10	15	0.01
1626184		<20	0.03	<10	<10	16	<10	20	0.02
1626185		20	0.03	<10	<10	18	<10	20	0.03
1626186		<20	0.04	<10	<10	29	<10	29	0.04
1626187		<20	0.03	<10	<10	20	<10	21	0.03
1626188		20	0.03	<10	<10	14	<10	18	0.03
1626189		20	0.02	<10	<10	10	<10	9	0.04
1626190		20	0.01	<10	<10	6	<10	9	0.04



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Page: 3 - A
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		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
1626191		0.85	0.01	0.3	0.41	3	<10	80	<0.5	<2	0.08	<0.5	2	6	10	1.36
1626192		0.95	0.02	0.5	0.95	8	<10	150	<0.5	<2	0.24	<0.5	5	18	16	1.68
1626193		0.85	0.01	0.2	0.37	4	<10	90	<0.5	<2	0.07	<0.5	4	5	6	1.14
1626194		0.80	0.02	0.2	0.72	6	<10	120	<0.5	<2	0.15	<0.5	5	13	15	1.36
1626195		0.80	0.01	<0.2	0.35	2	<10	60	<0.5	<2	0.99	<0.5	2	4	3	1.27
1626196		0.99	0.01	<0.2	0.59	4	<10	110	<0.5	<2	0.10	<0.5	3	10	14	1.20
1626197		0.87	<0.01	<0.2	0.41	<2	<10	100	<0.5	<2	0.18	<0.5	1	4	3	0.68
1626198		0.91	0.01	<0.2	0.46	2	<10	80	<0.5	<2	0.09	<0.5	2	5	5	1.10



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		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
1626191		<10	<1	0.18	30	0.04	942	1	0.02	4	90	6	<0.01	<2	1
1626192		<10	<1	0.14	20	0.22	404	1	0.02	10	160	11	0.01	<2	2
1626193		<10	1	0.16	30	0.03	726	1	0.02	4	90	6	<0.01	<2	1
1626194		<10	<1	0.16	20	0.15	381	1	0.02	9	110	10	0.01	<2	2
1626195		<10	<1	0.21	30	0.03	849	1	0.01	2	100	<2	<0.01	<2	1
1626196		<10	<1	0.15	30	0.10	437	1	0.02	8	100	6	<0.01	<2	2
1626197		<10	<1	0.26	40	0.03	625	1	0.01	1	200	2	<0.01	<2	1
1626198		<10	<1	0.20	40	0.05	521	1	0.02	3	140	5	<0.01	<2	1



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Page: 3 - C
Total # Pages: 3 (A - C)
Plus Appendix Pages
Finalized Date: 10-JUN-2019
Account: TRUGRO

Project: JPR

CERTIFICATE OF ANALYSIS WH19128826

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-MS42
		Th	Ti	Tl	U	V	W	Zn	Te
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	ppm 0.01
1626191		20	0.01	<10	<10	6	<10	16	0.02
1626192		<20	0.05	<10	<10	31	<10	24	0.02
1626193		20	<0.01	<10	<10	4	<10	10	0.01
1626194		<20	0.03	<10	<10	20	<10	19	0.02
1626195		20	<0.01	<10	<10	3	<10	14	0.01
1626196		20	0.02	<10	<10	13	<10	15	0.01
1626197		20	<0.01	<10	<10	3	<10	9	<0.01
1626198		20	0.01	<10	<10	7	<10	14	<0.01



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 10-JUN-2019
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CERTIFICATE OF ANALYSIS WH19128826

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