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Finalized Date: 18-MAY-2019  
Account: TRUGRO

## CERTIFICATE WH19106288

Project: JPR  
P.O. No.: 1208  
This report is for 108 Rock samples submitted to our lab in Whitehorse, YT, Canada on 3-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
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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 WH19106288**

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
1614801		0.76	0.01	0.2	0.85	5	<10	160	<0.5	<2	0.40	<0.5	7	8	28	2.00
1614802		0.82	0.06	<0.2	0.93	3	<10	130	<0.5	<2	0.31	<0.5	8	8	14	2.25
1614803		0.98	0.05	<0.2	1.00	3	<10	140	<0.5	<2	0.16	<0.5	7	8	12	2.22
1614804		0.56	0.03	<0.2	1.07	5	<10	140	<0.5	2	0.22	<0.5	8	11	13	2.27
1614805		0.63	0.02	0.2	0.98	5	<10	140	<0.5	<2	0.27	<0.5	5	13	16	1.97
1614806		0.81	0.01	<0.2	0.68	<2	<10	90	<0.5	<2	0.20	<0.5	5	7	12	1.95
1614807		0.91	0.03	<0.2	0.77	2	<10	140	<0.5	<2	0.20	0.8	7	8	10	2.03
1614808		1.21	0.02	0.2	1.08	4	<10	140	<0.5	<2	0.28	1.3	12	10	21	2.94
1614809		0.86	0.02	<0.2	0.70	4	<10	110	<0.5	<2	0.33	0.9	8	7	19	1.89
1614810		0.92	0.01	0.2	2.81	3	<10	360	<0.5	<2	0.68	0.8	27	11	63	5.07
1614811		0.85	0.03	0.2	1.55	4	<10	190	<0.5	<2	0.55	0.8	19	11	40	3.51
1614812		0.97	0.01	0.2	2.64	2	<10	620	<0.5	<2	1.51	0.8	25	10	32	4.48
1614813		0.95	0.01	<0.2	1.06	4	<10	130	<0.5	<2	0.25	0.7	9	10	26	2.41
1614814		0.89	0.01	0.3	1.38	4	<10	160	<0.5	<2	0.28	0.8	12	12	41	3.10
1614815		1.12	0.03	0.3	0.67	3	<10	120	<0.5	<2	0.43	0.5	8	7	54	2.16
1614816		0.99	0.02	0.4	0.77	3	<10	110	<0.5	<2	0.16	0.6	8	10	48	2.38
1614817		0.94	0.07	0.2	0.62	2	<10	100	<0.5	<2	0.22	<0.5	8	7	37	2.12
1614818		0.93	0.02	0.3	1.04	3	<10	140	0.5	<2	0.20	0.6	12	13	31	2.87
1614819		0.79	<0.01	<0.2	0.85	2	<10	100	<0.5	<2	0.12	0.6	9	9	20	2.18
1614820		0.92	0.01	0.2	0.82	2	<10	90	<0.5	<2	0.18	1.1	9	7	45	2.44
1614821		1.02	0.03	0.2	1.14	4	<10	180	<0.5	<2	0.32	1.5	10	15	37	2.67
1614822		1.27	0.01	0.5	1.09	<2	<10	150	0.6	<2	0.25	5.3	10	5	40	2.89
1614823		1.30	<0.01	0.2	2.27	2	<10	140	<0.5	<2	1.94	0.8	19	12	25	4.41
1614824		1.01	0.01	<0.2	2.68	3	<10	320	<0.5	<2	2.34	0.6	28	7	21	4.69
1614825		1.03	0.02	0.2	1.91	5	<10	250	<0.5	2	0.59	<0.5	18	14	27	3.49
1614826		1.88	<0.01	0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	1	<1	2	0.10
1614827		0.89	<0.01	<0.2	2.58	<2	<10	260	<0.5	2	0.70	<0.5	22	10	37	4.69
1614828		0.87	<0.01	<0.2	2.91	2	<10	240	<0.5	<2	0.69	0.5	24	8	26	5.04
1614829		0.87	<0.01	0.3	2.38	3	<10	190	<0.5	<2	3.21	0.7	17	91	16	4.85
1614830		1.00	0.01	0.2	1.33	3	<10	270	0.6	<2	5.87	0.8	34	8	58	5.10
1614831		0.97	0.01	0.2	1.10	<2	<10	170	0.5	<2	6.8	0.7	20	1	13	3.29
1614832		1.01	0.11	1.0	0.66	<2	<10	130	<0.5	<2	2.88	0.5	9	3	9	2.45
1614833		0.93	0.09	0.6	1.08	6	<10	230	0.5	<2	0.50	0.6	15	11	28	3.35
1614834		1.28	0.01	0.2	2.21	4	<10	160	<0.5	<2	4.26	0.8	26	15	43	5.11
1614835		0.94	0.02	0.3	2.00	2	<10	180	0.5	2	7.1	0.7	21	9	32	4.08
1614836		0.76	0.01	0.7	2.19	3	<10	160	<0.5	<2	9.7	0.7	22	10	39	4.61
1614837		0.92	0.02	0.5	2.08	3	<10	200	0.7	2	5.88	1.1	25	142	37	5.75
1614838		1.13	0.02	0.2	2.59	<2	<10	210	<0.5	<2	5.47	0.9	28	216	28	5.08
1614839		1.01	<0.01	<0.2	1.33	<2	<10	190	<0.5	<2	0.30	<0.5	8	5	9	2.24
1614840		1.11	0.01	<0.2	1.37	2	<10	210	<0.5	<2	0.32	<0.5	10	9	20	2.62



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**CERTIFICATE OF ANALYSIS WH19106288**

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
1614801		<10	<1	0.27	30	0.21	786	2	0.03	5	450	17	0.03	<2	2	13
1614802		<10	<1	0.27	20	0.24	703	1	0.03	5	420	13	0.02	<2	2	10
1614803		<10	<1	0.33	30	0.27	594	1	0.04	6	430	12	0.02	<2	3	10
1614804		<10	1	0.33	20	0.27	622	1	0.03	7	450	14	0.03	<2	3	11
1614805		<10	<1	0.17	40	0.15	285	1	0.03	8	520	14	0.04	<2	2	15
1614806		<10	<1	0.25	20	0.14	297	1	0.03	3	470	8	0.03	<2	2	8
1614807		<10	<1	0.29	20	0.14	756	1	0.03	4	440	15	0.03	<2	2	8
1614808		<10	<1	0.32	30	0.38	851	1	0.03	8	590	66	0.05	<2	4	11
1614809		<10	<1	0.30	30	0.13	663	1	0.02	5	420	47	0.06	2	2	8
1614810		10	<1	0.86	20	2.28	1350	1	0.05	15	950	50	0.02	<2	12	17
1614811		<10	<1	0.41	30	0.92	1100	1	0.04	11	680	52	0.08	<2	7	17
1614812		10	<1	1.03	10	2.04	1460	<1	0.04	13	960	49	0.02	<2	9	32
1614813		<10	1	0.27	40	0.31	586	1	0.04	7	420	112	0.06	<2	3	10
1614814		<10	<1	0.35	40	0.53	871	1	0.04	10	540	111	0.03	<2	6	11
1614815		<10	<1	0.28	30	0.13	861	1	0.04	6	420	41	0.10	<2	3	11
1614816		<10	<1	0.25	30	0.17	654	1	0.03	7	410	50	0.09	<2	3	9
1614817		<10	<1	0.29	30	0.12	712	1	0.03	6	410	25	0.08	<2	3	8
1614818		<10	<1	0.34	30	0.27	852	2	0.02	12	460	34	0.03	<2	5	10
1614819		<10	<1	0.24	20	0.23	661	2	0.03	6	370	24	0.03	<2	3	7
1614820		<10	<1	0.32	20	0.24	690	1	0.03	5	460	78	0.04	<2	3	8
1614821		<10	<1	0.22	20	0.32	593	1	0.03	13	480	91	0.03	<2	4	17
1614822		<10	<1	0.25	30	0.28	674	1	0.02	8	500	39	0.03	<2	5	8
1614823		10	<1	0.71	10	1.58	1000	<1	0.01	18	920	8	0.03	<2	8	38
1614824		10	<1	1.29	<10	2.02	1370	<1	0.03	13	1200	11	0.02	<2	9	39
1614825		10	<1	0.46	10	1.17	766	1	0.03	15	770	12	0.02	<2	6	27
1614826		<10	<1	0.01	<10	0.59	97	<1	0.01	<1	70	<2	0.02	<2	<1	87
1614827		10	<1	0.57	10	2.03	936	<1	0.05	14	1280	11	0.02	<2	9	29
1614828		10	<1	0.41	10	2.03	1100	1	0.03	14	1160	23	0.02	<2	10	22
1614829		10	<1	0.40	10	1.40	1400	1	0.02	30	750	38	0.02	<2	9	52
1614830		<10	<1	0.36	<10	0.40	1540	1	0.01	15	1010	26	0.02	<2	15	55
1614831		<10	<1	0.50	10	0.30	1360	1	0.01	6	880	35	0.02	<2	8	67
1614832		<10	<1	0.27	20	0.08	899	2	0.01	4	590	134	0.04	<2	4	21
1614833		<10	<1	0.27	20	0.23	1280	2	0.01	15	780	190	0.02	<2	6	13
1614834		10	<1	0.27	10	0.93	932	<1	0.02	10	1500	10	0.02	<2	12	72
1614835		10	1	0.40	10	0.67	1120	<1	0.02	8	1540	10	0.02	<2	11	89
1614836		10	<1	0.43	10	0.98	1730	<1	0.01	7	1620	209	0.08	<2	7	125
1614837		10	<1	0.78	10	1.08	1220	1	0.01	36	760	78	0.03	<2	17	80
1614838		10	<1	0.52	10	2.11	1070	1	0.03	42	1090	18	0.02	<2	15	76
1614839		<10	<1	0.39	20	0.46	588	1	0.03	3	480	10	0.05	<2	3	12
1614840		<10	<1	0.33	40	0.51	777	1	0.01	8	540	13	0.03	<2	3	10



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**CERTIFICATE OF ANALYSIS WH19106288**

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
1614801		<20	0.03	<10	<10	18	<10	47	0.02
1614802		<20	0.03	<10	<10	22	<10	48	0.02
1614803		<20	0.04	<10	<10	24	<10	53	0.03
1614804		<20	0.05	<10	<10	27	<10	52	0.01
1614805		<20	0.03	<10	<10	28	<10	33	0.03
1614806		<20	0.02	<10	<10	19	<10	37	0.01
1614807		<20	0.03	<10	<10	20	<10	70	0.05
1614808		<20	0.04	<10	<10	33	<10	170	0.02
1614809		<20	0.03	<10	<10	17	<10	93	0.02
1614810		<20	0.14	<10	<10	114	<10	214	0.02
1614811		<20	0.07	<10	<10	62	<10	136	0.03
1614812		<20	0.15	<10	<10	110	<10	242	0.01
1614813		<20	0.03	<10	<10	27	<10	127	0.02
1614814		<20	0.06	<10	<10	47	<10	156	0.04
1614815		<20	0.02	<10	<10	21	<10	60	0.04
1614816		<20	0.03	<10	<10	27	<10	77	0.05
1614817		<20	0.03	<10	<10	21	<10	56	0.04
1614818		<20	0.05	<10	<10	36	<10	97	0.04
1614819		<20	0.03	<10	<10	25	<10	63	0.02
1614820		<20	0.04	<10	<10	26	<10	198	0.02
1614821		<20	0.05	<10	<10	36	<10	203	0.03
1614822		<20	0.01	<10	<10	28	<10	327	0.02
1614823		<20	0.08	<10	<10	73	<10	116	0.01
1614824		<20	0.21	<10	<10	120	<10	149	0.01
1614825		<20	0.12	<10	<10	80	<10	100	0.03
1614826		<20	<0.01	<10	<10	1	<10	2	0.01
1614827		<20	0.14	<10	<10	103	<10	113	0.02
1614828		<20	0.09	<10	<10	104	<10	136	0.02
1614829		<20	0.04	<10	<10	58	<10	121	0.04
1614830		<20	0.02	<10	<10	100	<10	132	0.01
1614831		<20	0.01	<10	<10	52	<10	108	0.01
1614832		<20	0.01	<10	<10	25	<10	63	0.58
1614833		<20	0.03	<10	<10	46	<10	92	0.21
1614834		<20	0.02	<10	<10	90	<10	107	0.03
1614835		<20	0.03	<10	<10	88	<10	87	0.03
1614836		<20	0.03	<10	<10	66	<10	88	0.05
1614837		<20	0.09	<10	<10	102	<10	118	0.06
1614838		<20	0.12	<10	<10	116	<10	88	0.01
1614839		<20	0.02	<10	<10	16	<10	56	0.02
1614840		<20	0.01	<10	<10	18	<10	59	0.01



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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
1614841		1.16	0.01	<0.2	0.77	2	<10	190	0.7	<2	0.82	<0.5	9	5	7	2.59
1614842		0.97	0.03	<0.2	0.50	3	<10	110	0.5	<2	0.11	<0.5	5	3	13	1.39
1614843		0.88	0.04	<0.2	0.79	6	<10	140	0.8	2	0.29	0.6	9	19	21	2.38
1614844		1.07	0.03	0.2	0.67	4	<10	120	0.6	<2	0.16	0.9	6	10	14	1.81
1614845		1.01	<0.01	<0.2	0.62	3	<10	110	0.5	<2	0.09	0.5	5	6	9	1.41
1614846		0.93	<0.01	<0.2	0.76	3	<10	110	0.5	<2	0.10	<0.5	5	6	9	1.59
1614847		0.80	0.01	<0.2	0.48	3	<10	60	<0.5	<2	0.04	<0.5	2	5	6	0.83
1614848		1.02	0.01	<0.2	1.37	39	<10	120	0.6	<2	0.25	0.9	11	34	16	2.74
1614849		1.17	0.01	<0.2	0.59	2	<10	90	<0.5	<2	0.10	<0.5	6	6	15	1.76
1614850		0.93	0.01	<0.2	1.00	2	<10	100	<0.5	<2	0.10	<0.5	5	5	10	1.90
1614851		0.79	0.01	<0.2	0.62	2	<10	110	<0.5	<2	0.10	<0.5	5	6	12	1.27
1614852		1.23	0.09	0.2	0.50	4	<10	100	<0.5	<2	0.09	<0.5	4	3	32	1.91
1614853		1.11	0.09	<0.2	0.69	3	<10	90	<0.5	<2	0.12	0.5	7	7	27	2.07
1614854		1.00	0.06	<0.2	0.49	3	<10	70	<0.5	<2	0.12	<0.5	4	3	14	1.27
1614855		1.33	0.03	0.2	0.67	2	<10	240	0.6	<2	2.74	<0.5	7	3	10	1.56
1614856		1.25	<0.01	<0.2	0.63	3	<10	100	<0.5	<2	0.10	<0.5	6	5	14	1.74
1614857		1.15	0.06	0.2	0.73	3	<10	100	0.6	<2	0.15	<0.5	7	6	34	2.21
1614858		0.97	0.06	0.2	0.81	2	<10	150	<0.5	<2	0.12	<0.5	7	3	27	2.30
1614859		0.98	<0.01	<0.2	1.21	<2	<10	180	<0.5	<2	0.27	<0.5	8	4	10	2.40
1614860		0.91	<0.01	<0.2	1.43	<2	<10	150	<0.5	<2	0.30	<0.5	9	6	10	2.39
1614861		0.94	<0.01	<0.2	1.29	<2	<10	180	<0.5	<2	0.12	<0.5	7	6	9	2.35
1614862		0.98	<0.01	<0.2	1.24	<2	<10	180	<0.5	<2	0.16	<0.5	7	4	12	2.19
1614863		0.82	0.03	<0.2	3.10	4	<10	210	0.6	<2	0.86	<0.5	27	113	42	5.37
1614877		1.17	<0.01	0.2	2.44	5	<10	560	1.6	<2	5.77	0.6	31	219	108	4.71
1614878		1.18	0.03	0.2	1.82	2	<10	480	1.2	<2	3.78	0.9	21	207	102	3.70
1614879		1.29	0.04	0.3	3.15	4	10	210	1.8	<2	1.93	<0.5	30	316	139	4.77
1614880		1.19	0.94	0.6	0.80	5	<10	200	<0.5	<2	0.19	0.6	9	5	50	1.90
1614881		1.02	0.35	0.2	1.06	7	<10	140	<0.5	<2	1.91	1.1	6	7	23	1.85
1614882		1.14	0.57	0.4	1.07	3	<10	440	<0.5	<2	0.24	2.5	6	4	12	1.84
1614883		1.04	0.01	<0.2	0.68	2	<10	90	<0.5	<2	0.10	<0.5	5	6	7	1.28
1614884		1.16	0.05	<0.2	0.89	<2	<10	120	<0.5	<2	0.15	<0.5	4	4	5	1.34
1614885		1.08	0.06	0.3	0.50	<2	<10	170	<0.5	<2	0.11	<0.5	3	3	10	0.99
1614886		1.12	0.04	0.2	1.04	<2	<10	160	0.5	<2	0.84	<0.5	8	5	18	2.65
1614887		1.18	0.04	0.2	0.68	2	<10	200	0.5	<2	0.53	<0.5	11	5	24	1.92
1614888		1.06	0.01	<0.2	1.09	2	<10	210	<0.5	<2	0.41	<0.5	7	8	12	2.39
1614889		1.11	0.02	0.2	0.79	<2	<10	150	0.6	<2	0.19	<0.5	7	4	12	1.83
1614890		1.13	0.15	0.4	0.83	3	<10	170	0.6	<2	0.20	<0.5	8	14	31	1.86
1614891		0.95	0.02	<0.2	0.87	<2	<10	160	0.5	2	0.18	<0.5	6	6	13	1.88
1614892		1.20	0.02	<0.2	0.74	3	<10	170	<0.5	<2	0.19	<0.5	7	3	17	2.17
1614893		1.11	0.03	<0.2	0.79	3	<10	130	<0.5	<2	1.50	<0.5	7	3	10	2.07



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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
1614841		<10	<1	0.29	20	0.11	708	1	0.01	4	520	10	0.02	<2	5	14
1614842		<10	<1	0.31	50	0.04	419	1	0.02	4	380	48	0.02	<2	1	6
1614843		<10	<1	0.34	40	0.16	646	2	0.01	26	1210	41	0.02	<2	3	8
1614844		<10	<1	0.31	40	0.13	610	1	0.01	9	580	46	0.02	<2	3	8
1614845		<10	<1	0.34	30	0.07	418	1	0.02	6	340	38	0.02	2	1	7
1614846		<10	<1	0.35	30	0.10	401	1	0.02	5	410	17	0.02	<2	2	5
1614847		<10	<1	0.27	20	0.05	160	1	0.01	5	130	48	0.02	<2	1	4
1614848		<10	<1	0.39	40	0.51	573	1	0.03	32	1010	40	0.02	<2	3	9
1614849		<10	<1	0.31	40	0.09	422	1	0.02	6	460	27	0.01	<2	1	6
1614850		<10	<1	0.31	20	0.35	385	<1	0.02	6	430	23	0.01	<2	2	5
1614851		<10	<1	0.28	40	0.10	258	1	0.02	6	350	19	<0.01	<2	1	7
1614852		<10	<1	0.34	80	0.04	529	1	0.01	4	280	18	0.01	<2	1	6
1614853		<10	<1	0.35	20	0.08	418	1	0.01	6	600	101	0.01	<2	2	4
1614854		<10	<1	0.34	50	0.04	277	<1	0.01	4	370	53	0.01	<2	1	6
1614855		<10	<1	0.37	30	0.09	542	1	<0.01	3	430	32	0.02	<2	2	26
1614856		<10	<1	0.31	50	0.10	377	1	0.01	5	390	28	0.01	<2	1	5
1614857		<10	<1	0.33	50	0.09	485	1	0.01	6	420	96	0.01	<2	2	9
1614858		<10	<1	0.30	30	0.16	576	2	<0.01	4	510	13	0.02	<2	2	4
1614859		<10	<1	0.34	30	0.34	804	1	0.01	3	470	9	0.02	<2	2	9
1614860		<10	<1	0.26	20	0.52	557	1	0.01	5	450	9	0.01	<2	3	15
1614861		<10	<1	0.37	20	0.44	654	1	0.01	5	430	11	0.01	<2	2	5
1614862		<10	<1	0.31	30	0.38	612	1	0.01	4	470	11	0.02	<2	3	9
1614863		10	<1	0.64	20	2.35	1275	1	0.02	34	1090	19	0.04	<2	11	34
1614877		10	<1	0.43	20	2.36	1175	<1	0.03	173	2360	14	0.02	<2	8	233
1614878		10	<1	0.48	30	1.53	951	1	0.08	132	2230	23	0.02	<2	6	178
1614879		10	<1	0.59	20	4.81	707	<1	0.29	195	2820	20	0.01	<2	7	152
1614880		<10	<1	0.35	30	0.18	755	2	0.01	5	470	98	0.12	<2	1	8
1614881		<10	<1	0.33	20	0.35	770	1	0.01	7	500	19	0.04	<2	1	39
1614882		<10	<1	0.32	30	0.36	723	1	0.01	3	400	229	0.02	<2	2	10
1614883		<10	<1	0.27	20	0.15	767	1	0.01	3	310	54	0.01	<2	1	6
1614884		<10	<1	0.37	30	0.20	524	1	0.01	3	400	56	0.01	<2	1	8
1614885		<10	<1	0.31	50	0.04	272	1	<0.01	2	350	14	0.01	<2	1	9
1614886		<10	<1	0.35	40	0.24	944	1	0.02	6	810	34	0.02	<2	2	25
1614887		<10	<1	0.36	50	0.09	882	1	0.01	5	520	34	0.01	<2	1	15
1614888		<10	<1	0.31	30	0.32	674	1	0.02	6	470	35	0.01	<2	3	13
1614889		<10	<1	0.31	40	0.09	575	1	0.02	4	490	27	0.01	<2	2	9
1614890		<10	<1	0.35	60	0.17	656	1	0.01	8	520	60	0.01	<2	2	11
1614891		<10	<1	0.33	40	0.14	560	1	0.02	5	450	37	0.01	<2	2	9
1614892		<10	<1	0.31	30	0.13	722	2	0.01	3	460	13	0.02	<2	2	8
1614893		<10	<1	0.32	30	0.14	636	1	0.01	2	440	8	0.03	<2	3	36



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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-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
1614841		<20	0.01	<10	<10	19	<10	50	0.02
1614842		30	<0.01	<10	<10	6	<10	34	<0.01
1614843		20	0.01	<10	<10	19	<10	53	0.05
1614844		30	0.01	<10	<10	16	<10	50	0.05
1614845		20	0.01	<10	<10	8	<10	39	0.02
1614846		20	0.01	<10	<10	11	<10	37	<0.01
1614847		20	<0.01	<10	<10	6	<10	26	0.01
1614848		20	0.02	<10	<10	22	<10	81	0.01
1614849		20	0.01	<10	<10	11	<10	34	0.02
1614850		20	0.01	<10	<10	13	<10	54	0.01
1614851		20	0.01	<10	<10	10	<10	31	0.01
1614852		30	<0.01	<10	<10	3	<10	17	0.01
1614853		20	0.01	<10	<10	10	<10	49	0.02
1614854		30	<0.01	<10	<10	5	<10	26	0.01
1614855		20	<0.01	<10	<10	7	<10	31	<0.01
1614856		20	0.01	<10	<10	10	<10	44	<0.01
1614857		20	0.01	<10	<10	11	<10	40	0.01
1614858		20	<0.01	<10	<10	7	<10	31	0.02
1614859		<20	<0.01	<10	<10	9	<10	45	<0.01
1614860		<20	0.01	<10	<10	14	<10	51	<0.01
1614861		<20	0.01	<10	<10	11	<10	51	0.01
1614862		<20	0.01	<10	<10	11	<10	41	<0.01
1614863		<20	0.09	<10	<10	99	<10	103	0.02
1614877		<20	0.14	<10	<10	137	<10	82	<0.01
1614878		<20	0.12	<10	<10	115	<10	71	0.01
1614879		<20	0.21	<10	<10	146	<10	69	<0.01
1614880		<20	0.01	<10	<10	17	<10	24	0.06
1614881		<20	0.01	<10	<10	10	<10	42	0.01
1614882		<20	<0.01	<10	<10	9	<10	64	0.05
1614883		20	0.01	<10	<10	7	<10	24	0.03
1614884		20	0.01	<10	<10	6	<10	37	0.01
1614885		30	<0.01	<10	<10	4	<10	16	0.02
1614886		20	0.01	<10	<10	24	<10	53	0.01
1614887		20	0.01	<10	<10	7	<10	31	0.03
1614888		<20	0.01	<10	<10	19	<10	52	0.03
1614889		20	0.01	<10	<10	12	<10	41	0.01
1614890		30	0.01	<10	<10	15	<10	35	0.03
1614891		20	0.01	<10	<10	12	<10	40	0.01
1614892		<20	<0.01	<10	<10	8	<10	40	0.05
1614893		<20	<0.01	<10	<10	9	<10	42	0.02



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**CERTIFICATE OF ANALYSIS WH19106288**

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
1614894		1.07	0.02	<0.2	0.56	<2	<10	190	<0.5	<2	1.74	<0.5	7	3	19	1.94
1614895		1.29	0.05	<0.2	0.59	4	<10	220	<0.5	<2	2.15	<0.5	8	3	26	1.68
1614896		1.24	0.03	<0.2	0.69	5	<10	230	<0.5	<2	1.61	<0.5	7	3	24	1.81
1614897		1.42	<0.01	<0.2	0.89	4	<10	130	<0.5	<2	1.92	<0.5	9	3	16	2.02
1614898		1.18	0.01	0.2	1.09	6	<10	270	<0.5	<2	2.58	0.5	11	5	26	2.66
1614899		1.18	0.02	0.3	1.42	4	<10	220	<0.5	<2	3.27	0.6	12	7	14	3.28
1614900		1.12	0.01	0.2	1.13	4	<10	170	<0.5	<2	2.34	<0.5	9	4	13	2.55
1614901		1.12	0.11	0.3	0.88	2	<10	190	<0.5	<2	1.33	<0.5	6	3	13	1.93
1614902		1.05	0.07	0.2	0.88	5	<10	180	<0.5	<2	2.52	<0.5	7	3	18	2.19
1614903		1.11	0.01	0.2	1.01	2	<10	260	<0.5	<2	2.50	<0.5	8	3	13	2.17
1614904		1.09	0.41	0.2	1.25	4	<10	260	<0.5	<2	2.12	0.7	10	5	26	2.73
1614905		1.36	0.13	0.4	0.75	3	<10	240	<0.5	<2	1.64	<0.5	8	4	33	1.89
1614906		1.41	0.07	0.2	0.46	2	<10	200	<0.5	<2	0.70	<0.5	5	3	15	1.50
1614907		1.42	0.04	0.2	0.48	4	<10	140	0.5	<2	1.30	0.6	6	3	10	1.60
1614908		1.21	0.02	0.2	0.53	2	<10	110	<0.5	<2	0.22	<0.5	5	4	10	1.37
1614909		1.21	0.03	0.3	0.55	3	<10	360	<0.5	<2	1.09	0.5	5	3	19	1.30
1614910		1.20	0.07	0.3	0.49	5	<10	140	<0.5	<2	1.45	0.5	6	2	26	1.46
1614911		1.26	0.08	0.3	0.81	4	<10	300	<0.5	<2	1.43	<0.5	8	4	17	2.06
1614912		1.33	0.16	0.3	0.66	2	<10	240	<0.5	<2	1.72	0.5	7	4	14	2.01
1614913		1.14	0.06	<0.2	0.90	4	<10	170	<0.5	<2	1.09	0.7	9	6	18	2.48
1614914		1.11	0.13	0.2	0.69	3	<10	340	<0.5	<2	3.04	1.1	7	3	13	1.98
1614915		0.82	0.16	0.4	0.65	6	<10	210	<0.5	<2	0.23	0.5	11	5	37	2.21
1614916		1.14	0.07	0.6	0.48	5	<10	330	<0.5	2	2.01	0.6	12	2	23	1.86
1614917		0.62	0.19	0.2	0.78	4	<10	180	<0.5	2	0.78	0.5	6	14	17	1.85
1614918		0.97	0.06	0.3	0.79	6	<10	160	<0.5	<2	0.26	0.5	7	13	17	2.27
1614919		0.86	0.29	<0.2	0.53	4	<10	230	<0.5	<2	0.35	0.7	9	6	15	2.56
1614920		0.82	0.08	<0.2	0.74	6	<10	150	<0.5	<2	0.26	<0.5	7	13	15	2.05
1614921		0.88	0.18	0.4	0.80	6	<10	130	<0.5	<2	0.41	<0.5	7	15	18	1.90





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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
1614894		<10	<1	0.32	30	0.07	796	1	0.01	3	460	7	0.05	<2	1	43
1614895		<10	<1	0.35	30	0.07	762	1	0.02	4	420	4	0.03	<2	1	43
1614896		<10	<1	0.32	30	0.13	683	2	0.02	4	450	3	0.04	<2	1	37
1614897		<10	1	0.28	30	0.26	580	2	0.03	4	440	10	0.04	<2	1	45
1614898		<10	<1	0.27	30	0.39	804	1	0.02	5	480	27	0.05	<2	2	62
1614899		<10	<1	0.33	20	0.58	1090	1	0.03	5	530	35	0.04	<2	3	73
1614900		<10	1	0.31	30	0.37	848	1	0.03	4	450	18	0.02	<2	2	48
1614901		<10	<1	0.29	30	0.24	667	1	0.03	4	420	14	0.01	<2	1	26
1614902		<10	<1	0.26	30	0.26	929	1	0.03	3	390	13	0.01	<2	2	60
1614903		<10	<1	0.28	30	0.36	860	1	0.03	3	470	20	0.02	<2	2	50
1614904		<10	1	0.31	30	0.43	895	1	0.02	5	540	21	0.04	<2	2	62
1614905		<10	<1	0.32	40	0.18	645	1	0.03	4	470	43	0.02	<2	1	44
1614906		<10	<1	0.30	50	0.05	472	1	0.03	3	380	44	0.03	<2	1	15
1614907		<10	<1	0.33	50	0.05	583	1	0.03	4	390	46	0.01	<2	1	20
1614908		<10	<1	0.32	50	0.06	376	<1	0.03	4	440	54	0.01	<2	1	10
1614909		<10	<1	0.32	50	0.08	496	1	0.03	3	360	65	0.02	<2	1	30
1614910		<10	<1	0.32	40	0.07	443	1	0.02	3	460	53	0.01	<2	1	19
1614911		<10	<1	0.33	20	0.22	606	2	0.02	3	450	28	0.03	<2	2	42
1614912		<10	<1	0.34	20	0.13	695	2	0.02	3	470	26	0.06	<2	2	37
1614913		<10	<1	0.32	30	0.25	809	1	0.03	5	500	15	0.03	<2	2	29
1614914		<10	<1	0.35	20	0.15	934	1	0.02	4	450	44	0.02	<2	2	52
1614915		<10	<1	0.33	30	0.09	830	1	0.02	7	590	142	0.01	<2	2	9
1614916		<10	<1	0.30	20	0.15	619	1	0.02	2	460	108	0.04	<2	1	27
1614917		<10	<1	0.18	20	0.21	287	1	0.03	10	490	30	0.02	<2	2	26
1614918		<10	<1	0.25	30	0.20	601	2	0.03	9	560	69	0.02	<2	3	12
1614919		<10	<1	0.28	20	0.10	861	2	0.02	6	570	21	0.02	<2	2	16
1614920		<10	<1	0.26	30	0.19	512	2	0.02	9	500	25	0.01	<2	2	11
1614921		<10	<1	0.23	50	0.22	341	2	0.03	11	530	33	0.02	<2	3	16



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**CERTIFICATE OF ANALYSIS WH19106288**

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
1614894		<20	0.01	<10	<10	6	<10	29	<0.01
1614895		<20	<0.01	<10	<10	6	<10	27	<0.01
1614896		<20	<0.01	<10	<10	5	<10	26	<0.01
1614897		<20	<0.01	<10	<10	7	<10	35	0.01
1614898		<20	0.01	<10	<10	15	<10	50	0.02
1614899		<20	0.01	<10	<10	29	<10	71	0.01
1614900		<20	0.01	<10	<10	16	<10	51	0.01
1614901		<20	<0.01	<10	<10	8	<10	38	0.07
1614902		<20	<0.01	<10	<10	9	<10	43	0.01
1614903		<20	0.01	<10	<10	12	<10	46	0.02
1614904		<20	0.01	<10	<10	16	<10	57	0.02
1614905		20	0.01	<10	<10	10	<10	29	0.02
1614906		30	0.01	<10	<10	9	<10	27	0.04
1614907		30	0.01	<10	<10	10	<10	33	0.02
1614908		30	0.01	<10	<10	8	<10	30	0.02
1614909		30	0.01	<10	<10	6	<10	27	0.02
1614910		20	0.01	<10	<10	8	<10	25	0.02
1614911		<20	0.01	<10	<10	9	<10	43	0.04
1614912		<20	0.01	<10	<10	9	<10	30	0.02
1614913		<20	0.01	<10	<10	13	<10	62	0.01
1614914		<20	0.01	<10	<10	10	<10	54	<0.01
1614915		<20	0.01	<10	<10	10	<10	37	0.03
1614916		<20	<0.01	<10	<10	7	<10	37	0.06
1614917		<20	0.02	<10	<10	21	<10	32	0.02
1614918		<20	0.02	<10	<10	22	<10	43	0.06
1614919		<20	0.01	<10	<10	14	<10	56	0.01
1614920		<20	0.01	<10	<10	18	<10	40	0.03
1614921		<20	0.02	<10	<10	20	<10	38	0.02



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**CERTIFICATE OF ANALYSIS WH19106288**

**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