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To: DANIELE HEON  
12 MARIGOLD PLACE  
WHITEHORSE YT Y1A 6A2

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Plus Appendix Pages  
Finalized Date: 5-OCT-2018  
Account: HIODAN

**CERTIFICATE WH18211617**

Project: SQL-2018-1

This report is for 38 Rock samples submitted to our lab in Whitehorse, YT, Canada on 28-AUG-2018.

The following have access to data associated with this certificate:

DANIELE HEON

**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-31	Pulverize split to 85% <75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
PGM-MS23	Pt, Pd, Au 30g FA 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 WH18211617**

Sample Description	Method Analyte Units LOD	WEI-21	PGM-MS23	PGM-MS23	PGM-MS23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Pt ppm	Pd ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm
		0.02	0.001	0.0005	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1
Q050634		0.84	0.014	0.0010	0.001	0.4	2.22	29	<10	30	<0.5	<2	1.84	<0.5	7	12
Q050635		1.10	0.001	<0.0005	<0.001	<0.2	0.44	63	<10	130	<0.5	<2	2.25	<0.5	5	6
Q050636		0.60	<0.001	<0.0005	<0.001	<0.2	0.66	31	<10	210	<0.5	<2	1.57	<0.5	6	10
Q050637		0.90	0.001	0.0039	0.003	<0.2	0.14	1300	<10	60	0.5	<2	6.69	<0.5	51	269
Q050638		0.76	0.001	0.0049	0.004	<0.2	0.14	1595	<10	70	0.6	<2	6.06	<0.5	55	291
Q050639		0.67	0.001	0.0018	0.002	<0.2	2.22	23	<10	130	0.6	<2	2.03	<0.5	32	29
Q050640		0.29	<0.001	0.0016	0.002	<0.2	2.08	19	<10	30	0.6	3	3.19	<0.5	42	105
Q050641		2.63	0.014	0.0017	0.002	0.9	0.85	12	<10	30	<0.5	6	0.89	0.6	192	47
Q050642		1.20	0.024	0.0024	0.003	1.2	2.07	10	<10	20	0.6	3	1.64	0.5	134	69
Q050643		0.52	<0.001	0.0025	0.002	<0.2	0.18	4	<10	20	<0.5	<2	0.88	<0.5	46	306
Q050644		1.16	0.006	0.0011	0.003	<0.2	0.84	8	<10	270	<0.5	<2	0.44	<0.5	20	44
Q050645		0.85	0.001	0.0010	0.003	<0.2	1.23	8	<10	460	<0.5	<2	0.56	<0.5	15	61
Q050646		0.67	0.003	0.0011	0.002	<0.2	2.07	20	<10	190	0.6	<2	2.36	<0.5	5	96
Q050647		0.35	0.001	0.0006	0.001	<0.2	0.60	7	<10	180	<0.5	<2	0.87	<0.5	4	45
Q050648		1.10	<0.001	0.0008	0.002	<0.2	1.22	4	<10	150	<0.5	2	0.57	<0.5	9	70
Q050649		1.20	<0.001	0.0041	0.003	<0.2	0.19	156	<10	20	<0.5	<2	2.99	<0.5	51	334
Q050650		0.61	0.001	0.0069	0.005	<0.2	0.59	<2	10	<10	<0.5	<2	0.08	<0.5	107	1445
W811801		0.88	0.002	<0.0005	<0.001	<0.2	0.77	13	<10	90	<0.5	2	2.21	<0.5	6	21
W811802		1.19	0.001	<0.0005	<0.001	<0.2	0.85	11	<10	130	<0.5	<2	1.28	<0.5	11	48
W811803		0.97	<0.001	<0.0005	<0.001	<0.2	0.27	15	<10	80	<0.5	<2	3.97	<0.5	5	9
W811804		0.95	0.015	<0.0005	<0.001	<0.2	0.14	40	<10	60	<0.5	<2	3.19	<0.5	6	13
W811805		1.18	0.007	0.0021	0.002	<0.2	0.11	380	<10	130	<0.5	2	4.54	<0.5	45	222
W811806		0.95	0.001	0.0022	0.006	<0.2	0.57	<2	<10	30	<0.5	<2	1.24	<0.5	16	47
W811807		0.71	0.011	0.0027	0.002	<0.2	0.08	5	<10	10	<0.5	<2	0.35	<0.5	68	394
W811808		0.63	0.004	0.0036	0.002	<0.2	0.27	<2	10	20	<0.5	<2	0.09	<0.5	38	634
W811809		0.63	0.001	0.0044	0.002	<0.2	0.14	223	<10	10	<0.5	<2	0.98	<0.5	68	321
W811810		0.87	<0.001	<0.0005	<0.001	<0.2	0.58	2	<10	10	<0.5	<2	1.55	<0.5	59	873
W811811		0.72	<0.001	<0.0005	<0.001	<0.2	0.78	31	<10	60	<0.5	<2	5.13	0.5	40	42
W811812		0.64	<0.001	0.0059	0.006	<0.2	0.59	<2	<10	<10	<0.5	2	0.15	<0.5	95	1425
W811813		0.73	0.003	0.0081	0.008	<0.2	0.28	<2	<10	<10	<0.5	<2	0.11	<0.5	95	586
W811814		0.62	<0.001	0.0078	0.007	<0.2	0.25	<2	10	<10	<0.5	<2	0.06	<0.5	106	1240
W811815		0.53	<0.001	0.0086	0.010	<0.2	0.23	3	10	<10	<0.5	<2	0.60	<0.5	95	1075
W811816		0.51	0.002	0.0139	0.017	<0.2	0.36	3	20	<10	<0.5	<2	2.20	<0.5	103	471
W811817		0.36	<0.001	0.0048	0.001	<0.2	0.01	<2	<10	<10	<0.5	<2	0.03	<0.5	110	59
W811818		0.19	0.001	0.0026	0.001	<0.2	0.06	<2	<10	<10	<0.5	<2	0.04	<0.5	109	114
W811819		0.61	0.001	0.0109	0.010	<0.2	0.35	<2	<10	<10	<0.5	<2	0.06	<0.5	94	842
W811820		0.70	<0.001	0.0077	0.007	<0.2	0.46	<2	<10	<10	<0.5	<2	0.11	<0.5	98	1240
W811821		0.47	<0.001	0.0126	0.006	<0.2	0.60	8	10	<10	<0.5	<2	0.61	<0.5	88	974



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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	
		Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm
		1	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2
Q050634		76	3.83	10	<1	0.16	<10	0.48	337	5	0.18	2	910	19	2.97	<2
Q050635		5	1.66	<10	<1	0.25	10	0.68	307	<1	0.05	15	690	<2	0.03	<2
Q050636		79	1.83	<10	<1	0.21	20	0.30	179	1	0.06	16	620	6	0.02	13
Q050637		16	3.25	<10	<1	0.06	<10	8.45	553	3	<0.01	1005	20	2	0.22	93
Q050638		13	2.90	<10	<1	0.07	<10	8.36	444	6	<0.01	1080	10	4	0.38	88
Q050639		144	3.90	10	<1	0.17	20	0.97	128	1	0.26	108	3510	3	1.49	<2
Q050640		433	3.23	10	<1	0.04	20	0.79	169	3	0.04	211	1660	2	1.12	<2
Q050641		5160	18.70	<10	<1	0.04	10	0.53	110	4	0.01	204	580	2	>10.0	<2
Q050642		4230	7.93	10	<1	0.13	10	1.41	124	13	0.01	286	840	3	4.36	<2
Q050643		89	2.93	<10	<1	<0.01	<10	13.95	474	<1	<0.01	882	30	<2	0.30	<2
Q050644		580	2.23	<10	<1	0.09	10	0.71	87	50	0.04	54	310	2	0.42	<2
Q050645		214	2.61	10	<1	0.16	10	1.11	149	10	0.07	60	300	4	0.60	<2
Q050646		213	2.42	10	<1	0.08	10	0.78	152	12	0.02	32	640	4	0.21	<2
Q050647		81	1.37	<10	<1	0.06	10	0.40	106	42	0.04	24	400	<2	0.20	<2
Q050648		44	2.17	10	<1	0.06	10	1.19	192	1	0.03	36	420	4	0.09	<2
Q050649		15	3.36	<10	<1	0.04	<10	11.45	373	2	<0.01	1125	10	<2	0.16	2
Q050650		9	5.14	<10	<1	<0.01	<10	20.3	944	<1	<0.01	2000	40	<2	0.02	<2
W811801		2	1.27	<10	<1	0.16	20	0.56	261	<1	0.06	34	310	4	<0.01	<2
W811802		5	2.12	<10	<1	0.17	20	0.88	406	1	0.07	60	670	4	<0.01	<2
W811803		3	2.16	<10	<1	0.17	10	0.70	582	<1	0.01	16	280	28	<0.01	<2
W811804		14	1.20	<10	<1	0.09	30	0.10	373	1	<0.01	10	150	9	<0.01	<2
W811805		5	3.19	<10	<1	0.05	<10	11.55	546	<1	<0.01	816	10	2	0.05	4
W811806		153	2.13	<10	<1	0.02	10	0.59	237	9	0.07	45	370	2	0.42	<2
W811807		5	3.34	<10	<1	0.01	<10	15.65	944	<1	<0.01	1330	10	<2	<0.01	<2
W811808		5	3.54	<10	<1	0.02	<10	14.10	412	<1	<0.01	1200	10	<2	<0.01	<2
W811809		21	4.35	<10	<1	0.02	<10	17.25	1055	1	<0.01	1560	10	<2	0.04	22
W811810		27	4.08	<10	<1	<0.01	<10	12.20	745	<1	<0.01	1025	10	<2	0.13	<2
W811811		50	8.05	<10	<1	0.30	<10	2.85	1435	<1	0.05	67	580	<2	0.09	16
W811812		6	5.27	<10	<1	<0.01	<10	18.35	627	<1	<0.01	1815	10	<2	0.08	<2
W811813		11	5.18	<10	<1	0.01	<10	20.7	791	<1	<0.01	2050	10	<2	<0.01	<2
W811814		1	5.52	<10	<1	<0.01	<10	20.4	925	<1	<0.01	2040	<10	<2	0.01	<2
W811815		1	5.01	<10	<1	<0.01	<10	18.55	793	<1	<0.01	1940	<10	<2	0.02	<2
W811816		13	6.76	<10	<1	<0.01	<10	18.10	1045	<1	<0.01	1295	10	<2	0.05	<2
W811817		8	5.40	<10	<1	<0.01	<10	22.8	846	<1	<0.01	2300	40	<2	<0.01	<2
W811818		8	5.78	<10	<1	<0.01	<10	22.1	831	<1	<0.01	2290	10	<2	<0.01	<2
W811819		10	4.95	<10	<1	<0.01	<10	20.00	772	<1	<0.01	1865	<10	<2	<0.01	<2
W811820		2	4.86	<10	<1	<0.01	<10	20.4	695	<1	<0.01	2030	10	<2	0.05	<2
W811821		2	4.38	<10	<1	<0.01	<10	21.0	889	<1	<0.01	1935	20	<2	0.01	<2



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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	
		Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
		1	1	20	0.01	10	10	1	10	2
Q050634		2	53	<20	0.10	<10	<10	60	<10	61
Q050635		3	137	<20	<0.01	<10	<10	8	<10	18
Q050636		2	46	<20	<0.01	<10	<10	17	<10	21
Q050637		6	1190	<20	<0.01	<10	<10	15	<10	20
Q050638		7	1185	<20	<0.01	<10	<10	15	<10	15
Q050639		2	134	<20	0.41	<10	<10	70	<10	59
Q050640		2	24	<20	0.46	<10	<10	53	<10	44
Q050641		1	9	<20	0.10	<10	<10	19	10	16
Q050642		4	42	<20	0.19	<10	<10	59	<10	69
Q050643		3	66	<20	<0.01	<10	<10	10	<10	6
Q050644		4	19	<20	0.14	<10	10	46	<10	10
Q050645		6	27	<20	0.20	<10	<10	92	<10	29
Q050646		3	10	<20	0.22	<10	<10	62	<10	13
Q050647		2	17	<20	0.10	<10	<10	30	<10	13
Q050648		7	9	<20	0.26	<10	<10	66	<10	38
Q050649		6	286	<20	<0.01	<10	<10	17	<10	4
Q050650		10	<1	<20	<0.01	<10	<10	33	<10	29
W811801		2	61	20	<0.01	<10	<10	14	<10	12
W811802		4	63	<20	<0.01	<10	<10	28	<10	36
W811803		1	88	<20	<0.01	<10	<10	3	<10	9
W811804		1	65	<20	<0.01	<10	<10	4	<10	6
W811805		5	616	<20	<0.01	<10	<10	14	<10	11
W811806		4	9	<20	0.11	<10	<10	77	<10	42
W811807		3	20	<20	<0.01	<10	<10	11	<10	11
W811808		7	5	<20	<0.01	<10	<10	21	<10	7
W811809		7	32	<20	<0.01	<10	<10	15	<10	8
W811810		9	40	<20	<0.01	<10	<10	28	<10	12
W811811		32	110	<20	<0.01	<10	<10	110	<10	97
W811812		9	3	<20	0.01	<10	<10	38	<10	27
W811813		8	<1	<20	<0.01	<10	<10	22	<10	25
W811814		10	<1	<20	<0.01	<10	<10	29	<10	16
W811815		8	4	<20	<0.01	<10	<10	28	<10	16
W811816		11	7	<20	0.01	<10	<10	31	<10	24
W811817		3	<1	<20	<0.01	<10	<10	2	<10	29
W811818		5	<1	<20	<0.01	<10	<10	9	<10	28
W811819		5	<1	<20	<0.01	<10	<10	22	<10	25
W811820		9	<1	<20	<0.01	<10	<10	35	<10	30
W811821		6	1	<20	0.01	<10	<10	21	<10	25



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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	LOG-21
	PUL-QC	SPL-21	WEI-21
			PUL-31
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	ME-ICP41	PGM-MS23	