



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: MIDNIGHT MINING SERVICES  
27A MACDONALD RD  
WHITEHORSE YT Y1A 4L1

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This copy reported on  
13-SEP-2013  
Account: MIDMIN

**CERTIFICATE WH13155455**

Project: Arch

P.O. No.: Rock1

This report is for 22 Rock samples submitted to our lab in Whitehorse, YT, Canada on 26-AUG-2013.

The following have access to data associated with this certificate:

SUSAN CRAIG

DEBBIE JAMES

DERRICK STRICKLAND

**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-32	Pulverize 1000g to 85% < 75 um
BAG-01	Bulk Master for Storage

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION
ME-MS41L	51 anal. aqua regia ICPMS

To: MIDNIGHT MINING SERVICES  
ATTN: DEBBIE JAMES  
27A MACDONALD RD  
WHITEHORSE YT Y1A 4L1

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 WH13155455**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41L Au ppm	ME-MS41L Ag ppm	ME-MS41L Al %	ME-MS41L As ppm	ME-MS41L B ppm	ME-MS41L Ba ppm	ME-MS41L Be ppm	ME-MS41L Bi ppm	ME-MS41L Ca %	ME-MS41L Cd ppm	ME-MS41L Ce ppm	ME-MS41L Co ppm	ME-MS41L Cr ppm	ME-MS41L Cs ppm
		0.02	0.0002	0.001	0.01	0.01	10	0.5	0.01	0.001	0.01	0.001	0.003	0.001	0.01	0.005
M896809		3.36	0.0100	0.355	1.45	0.81	50	19.3	0.11	0.053	0.66	0.086	4.78	133.0	375	0.315
M896810		2.72	0.0083	0.244	1.65	2.46	50	55.8	0.11	0.048	1.57	0.108	4.00	124.5	395	0.370
M896811		3.46	0.0003	0.013	2.35	11.85	360	67.4	0.60	0.008	5.77	0.107	19.95	21.3	118.5	0.224
M896812		1.98	0.0031	0.075	1.53	0.53	40	66.2	0.10	0.015	1.16	0.042	3.85	117.0	335	0.957
M896813		2.33	0.0094	0.214	1.49	0.46	60	55.8	0.11	0.024	0.62	0.073	4.53	127.0	365	1.280
M896814		2.36	0.0041	0.085	2.41	6.47	10	119.5	0.44	0.009	4.51	0.116	15.35	35.5	44.0	0.685
M896815		2.40	0.0004	0.039	2.88	48.0	10	48.9	0.60	0.078	1.00	0.038	26.6	24.1	31.4	1.625
M896816		2.07	0.0075	0.253	2.99	12.35	10	195.5	0.35	0.054	8.30	0.179	4.83	53.2	478	1.020
M896817		2.80	0.0061	0.280	3.42	82.1	10	732	0.40	0.053	5.92	0.368	8.38	59.4	788	1.110
M896818		1.91	0.0165	1.015	4.24	45.0	10	254	0.53	0.280	1.01	0.715	25.8	118.5	937	2.35
M896819		1.64	0.0088	0.560	4.01	38.8	10	343	0.45	0.124	4.61	0.377	12.40	73.3	688	1.560
M896820		1.47	0.0805	1.250	2.61	21.0	10	129.5	0.44	2.11	0.80	0.546	25.5	31.9	115.5	1.235
M896821		1.87	0.0350	1.850	2.98	306	10	501	0.64	1.440	0.61	0.491	31.4	31.1	103.5	1.280
M896822		1.89	0.0071	0.229	2.31	33.7	10	771	0.45	0.092	5.69	0.232	21.6	28.3	434	1.965
M896823		1.87	0.0002	0.039	0.90	2.62	20	577	0.32	0.021	0.87	0.010	8.75	1.740	3.33	3.81
M896824		1.64	<0.0002	0.024	0.67	0.62	20	177.5	0.25	0.012	1.24	0.006	5.24	1.450	2.92	3.39
M896825		2.03	0.0200	0.737	1.45	6.44	10	441	0.20	0.068	9.23	0.353	3.22	104.0	637	0.343
M896826		2.26	0.0154	0.698	1.50	6	10	39.9	0.14	0.034	11.20	0.451	3.25	102.5	629	0.141
M896827		2.51	0.0951	2.03	1.47	15.40	30	49.9	0.14	0.094	5.83	1.005	4.32	154.5	554	0.845
M896828		2.32	0.0103	0.576	1.84	3	10	122.5	0.20	0.046	10.10	0.285	3.97	90.0	1040	0.232
M896829		0.52	0.0003	0.056	0.27	0.31	<10	79.7	0.06	0.018	0.19	0.040	44.0	1.250	12.05	0.090
M896830		2.42	0.0207	0.449	2.13	46.4	<10	21.4	0.17	0.041	3.63	4.48	5.59	25.7	58.7	0.121



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**CERTIFICATE OF ANALYSIS WH13155455**

Sample Description	Method Analyte Units LOR	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.01	0.001	0.004	0.005	0.002	0.004	0.005	0.01	0.002	0.1	0.01	0.1	0.01	0.001	0.002
M896809		381	7.88	3.16	0.169	0.055	0.024	0.015	0.03	2.07	6.3	17.55	1090	0.17	0.008	0.011
M896810		324	7.41	3.13	0.174	0.062	0.053	0.017	0.04	1.855	14.2	16.35	1250	0.14	0.013	0.005
M896811		41.0	4.14	7.97	0.160	0.595	0.008	0.023	0.19	8.72	17.2	1.98	969	0.32	0.059	0.154
M896812		104.0	7.49	2.97	0.162	0.035	0.012	0.012	0.04	1.795	6.5	17.05	1065	0.18	0.022	0.005
M896813		344	7.73	3.12	0.183	0.034	0.033	0.019	0.06	2.03	10.2	17.55	1105	0.15	0.022	0.007
M896814		195.5	6.79	12.00	0.164	0.566	0.188	0.066	0.16	6.00	18.0	2.15	1180	0.21	0.087	0.086
M896815		40.8	4.98	9.38	0.073	0.033	0.070	0.018	0.28	11.20	40.0	1.38	512	0.12	0.035	0.016
M896816		287	5.21	6.30	0.076	0.049	0.288	0.026	0.02	1.935	29.4	6.96	871	0.29	0.008	0.004
M896817		313	6.05	8.48	0.134	0.073	0.274	0.029	0.04	3.59	42.6	7.92	1115	0.23	0.012	0.007
M896818		1290	10.05	11.95	0.218	0.110	0.980	0.100	0.08	11.55	60.9	6.70	856	2.47	0.028	0.006
M896819		496	7.49	9.98	0.168	0.090	0.168	0.044	0.07	5.46	55.2	7.40	1240	0.39	0.014	0.011
M896820		1005	8.24	11.60	0.184	0.043	0.736	0.090	0.06	11.95	33.0	2.88	622	1.49	0.058	0.018
M896821		1080	10.40	11.00	0.190	0.031	0.551	0.164	0.06	12.90	38.4	2.35	513	3.23	0.040	0.005
M896822		103.5	4.66	7.18	0.079	0.051	0.097	0.058	0.08	9.97	28.7	4.43	930	0.46	0.036	0.013
M896823		5.96	0.930	3.67	0.031	0.069	0.141	0.006	0.30	3.69	6.4	0.34	232	0.08	0.093	0.110
M896824		1.77	0.890	2.29	0.023	0.042	0.014	0.010	0.24	2.07	3.5	0.17	214	0.06	0.071	0.194
M896825		586	6.11	3.19	0.070	0.073	0.635	0.027	0.01	1.290	7.2	8.25	1260	0.33	0.010	0.007
M896826		508	6.45	3.19	0.098	0.041	0.461	0.031	<0.01	1.285	7.2	5.93	1050	0.53	0.006	0.007
M896827		1660	7.70	3.09	0.158	0.061	0.329	0.037	0.01	1.915	10.6	11.85	1110	0.13	0.006	0.004
M896828		451	6.64	4.07	0.112	0.065	0.281	0.023	0.02	1.730	8.2	6.43	987	0.19	0.009	0.008
M896829		6.07	1.460	1.300	0.052	0.040	0.006	0.025	0.16	19.75	2.1	0.07	260	0.18	0.064	0.415
M896830		111.0	4.55	9.05	0.170	0.531	0.254	0.025	0.03	2.35	9.6	1.52	665	1.48	0.072	0.063



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**CERTIFICATE OF ANALYSIS WH13155455**

Sample Description	Method Analyte Units LOR	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L
		Ni	P	Pb	Pd	Pt	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.04	0.001	0.005	0.001	0.002	0.005	0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01
M896809		1440	0.019	1.950	0.060	0.033	1.585	0.002	0.11	0.020	9.24	1.1	0.14	13.70	0.005	0.08
M896810		2080	0.019	1.690	0.059	0.050	2.05	0.001	0.07	0.065	8.51	0.6	0.11	24.0	<0.005	0.10
M896811		28.2	0.133	1.750	0.005	0.003	6.34	<0.001	0.01	0.232	22.1	0.6	0.38	75.3	0.007	0.01
M896812		1320	0.016	1.710	0.033	0.034	2.88	<0.001	0.05	0.021	7.95	0.9	0.05	50.8	0.006	0.05
M896813		1380	0.017	1.125	0.068	0.025	2.99	0.002	0.11	0.045	8.52	1.1	0.10	29.6	0.005	0.11
M896814		46.6	0.059	0.847	0.020	0.004	5.09	<0.001	0.04	0.518	30.8	0.9	0.58	84.3	0.006	<0.01
M896815		46.0	0.064	2.74	0.002	<0.002	8.44	<0.001	0.01	0.446	9.37	0.4	0.15	9.01	0.005	0.04
M896816		756	0.018	3.05	0.052	0.025	0.846	0.001	0.07	0.244	9.95	0.8	0.24	289	<0.005	0.19
M896817		649	0.033	2.98	0.048	0.016	1.495	0.001	0.05	0.832	15.65	0.6	0.35	189.0	0.005	0.20
M896818		1375	0.058	7.63	0.178	0.052	3.18	0.003	0.34	1.585	23.8	15.2	1.13	27.2	0.005	1.53
M896819		762	0.033	2.75	0.046	0.027	2.99	0.001	0.06	0.570	19.70	0.9	0.49	57.2	0.005	0.31
M896820		389	0.070	10.50	0.431	0.031	2.28	0.003	1.07	0.931	13.05	23.2	1.08	26.6	0.005	3.52
M896821		673	0.167	13.75	0.346	0.016	2.04	0.014	0.42	5.87	11.45	22.5	1.23	21.9	0.005	3.32
M896822		286	0.055	4.28	0.035	0.012	2.87	0.001	0.09	0.510	11.65	0.9	0.62	349	0.005	0.17
M896823		5.47	0.021	4.76	0.001	<0.002	10.75	<0.001	0.04	0.064	1.010	0.1	0.11	19.20	0.005	0.01
M896824		1.95	0.020	5.02	<0.001	<0.002	9.11	<0.001	0.02	0.074	0.874	0.1	0.10	54.8	<0.005	<0.01
M896825		1395	0.008	2.80	0.087	0.061	0.272	0.003	0.19	0.130	13.10	3.7	0.16	279	<0.005	0.22
M896826		1545	0.014	1.305	0.094	0.093	0.237	0.001	0.04	0.257	9.64	1.5	0.12	233	<0.005	0.14
M896827		2130	0.017	2.06	0.251	0.189	0.873	0.004	0.15	0.075	9.44	3.3	0.24	92.8	<0.005	0.47
M896828		1295	0.011	1.280	0.091	0.054	0.470	0.002	0.11	0.107	11.15	0.7	0.21	98.4	<0.005	0.14
M896829		15.80	0.005	1.190	0.002	<0.002	3.67	<0.001	0.01	0.061	0.709	0.4	0.08	5.02	<0.005	0.04
M896830		49.6	0.082	41.0	0.010	0.005	0.633	0.008	0.77	0.604	6.77	4.1	0.37	31.3	<0.005	0.15



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**CERTIFICATE OF ANALYSIS WH13155455**

Sample Description	Method Analyte Units LOR	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L
		Th	Ti	Ti	U	V	W	Y	Zn	Zr
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.002	0.001	0.002	0.005	0.1	0.001	0.003	0.1	0.01
M896809		0.260	0.038	0.029	0.090	24.3	0.020	4.08	70.3	3.68
M896810		0.188	0.047	0.066	0.113	22.1	0.026	3.46	54.5	3.07
M896811		1.295	0.302	0.023	0.674	169.5	0.206	14.65	59.1	20.5
M896812		0.146	0.044	0.020	0.069	22.7	0.014	2.93	58.1	2.25
M896813		0.184	0.047	0.047	0.052	25.5	0.021	3.40	61.2	1.81
M896814		0.330	0.383	0.039	0.112	286	0.033	22.2	82.2	16.50
M896815		1.770	0.012	0.050	0.168	119.0	0.072	11.05	35.2	0.94
M896816		0.260	0.003	0.012	0.073	61.2	0.006	4.37	29.7	0.70
M896817		0.405	0.017	0.021	0.071	108.0	0.007	7.38	70.9	1.13
M896818		0.992	0.024	0.183	0.191	197.5	0.033	13.70	119.5	2.37
M896819		0.524	0.034	0.072	0.128	147.5	0.028	9.33	73.2	1.60
M896820		1.385	0.012	0.131	0.140	204	0.059	10.10	106.5	0.85
M896821		2.11	0.005	0.105	0.474	166.0	0.115	16.15	88.6	0.75
M896822		0.907	0.006	0.034	0.198	105.5	0.025	11.75	68.3	1.17
M896823		0.566	0.002	0.070	0.091	3.6	0.016	1.415	24.4	1.52
M896824		0.289	0.005	0.063	0.058	3.3	0.012	1.180	24.9	0.75
M896825		0.159	0.006	0.017	0.056	43.6	0.013	3.66	31.5	1.56
M896826		0.124	0.006	0.014	0.115	40.6	0.017	3.11	36.6	0.94
M896827		0.210	0.021	0.044	0.080	38.8	0.008	3.14	55.7	2.35
M896828		0.094	0.009	0.023	0.070	57.3	0.006	4.12	27.2	1.37
M896829		4.22	0.016	0.029	0.614	1.3	0.062	5.54	38.4	0.65
M896830		0.592	0.303	0.014	0.805	205	0.227	10.90	205	14.70



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**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method: Interference: Samples with Ca > 10% on ICP-MS As. ICP-AES As results reported (2 ppm DL)  
ME-MS41L

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).  
ME-MS41L

**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-22  
PUL-32 PUL-QC SPL-21 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
ME-MS41L