



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

Page: 1
Finalized Date: 10-SEP-2013
This copy reported on
13-SEP-2013
Account: MIDMIN

CERTIFICATE WH13150727

Project: Arch
P.O. No.: SED1
This report is for 9 Sediment samples submitted to our lab in Whitehorse, YT, Canada on 20-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
SCR-41	Screen to -180um and save both

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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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
Silt 1		0.69	0.0028	0.093	1.98	17.95	10	112.0	0.35	0.057	1.80	0.221	13.75	24.9	107.0	0.789
M896807		0.49	0.0030	0.102	1.79	14.15	10	97.1	0.34	0.073	1.45	0.319	17.00	21.1	88.0	0.736
M896801		1.09	0.0034	0.173	1.63	31.8	90	146.5	0.46	0.102	1.57	0.371	23.9	19.15	48.8	2.91
M896802		4.87	0.0018	0.128	1.83	24.0	50	206	0.31	0.066	1.11	0.414	16.95	23.7	76.1	1.560
M896803		7.12	0.0022	0.572	1.80	44.0	30	372	0.44	0.097	2.30	1.010	16.65	23.6	52.4	1.800
M896804		2.99	0.0040	0.530	2.35	22.2	40	307	0.41	0.081	1.50	0.435	18.10	26.1	96.2	1.420
M896805		3.27	0.0032	0.120	2.08	21.9	20	136.5	0.41	0.070	2.16	0.270	15.25	26.9	116.5	0.995
M896806		3.73	0.0030	0.884	2.16	44.9	30	371	0.41	0.112	3.03	1.405	14.75	29.5	76.9	1.800
SSED1		3.04	0.0044	0.180	2.23	17.75	30	146.5	0.38	0.072	1.75	0.349	15.15	24.3	102.0	1.440



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		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
Silt 1		85.5	4.51	5.96	0.119	0.163	0.233	0.025	0.06	6.77	15.0	2.10	616	0.95	0.030	0.306
M896807		72.1	3.85	5.53	0.080	0.080	0.110	0.026	0.06	8.39	13.4	1.66	605	0.96	0.030	0.771
M896801		79.2	3.44	5.22	0.069	0.046	0.633	0.038	0.07	12.35	15.8	1.00	753	1.33	0.026	0.645
M896802		62.2	5.64	7.96	0.092	0.069	0.198	0.032	0.05	8.42	14.6	1.22	661	1.69	0.029	0.590
M896803		76.9	4.67	5.28	0.100	0.106	0.491	0.039	0.07	8.85	16.6	1.70	540	5.53	0.033	0.247
M896804		143.5	4.81	6.62	0.117	0.096	0.266	0.038	0.07	10.45	17.7	2.05	752	2.20	0.024	0.633
M896805		93.3	4.90	6.40	0.123	0.242	0.211	0.029	0.06	7.46	17.4	2.21	606	1.00	0.027	0.191
M896806		113.0	5.10	6.82	0.124	0.160	0.315	0.040	0.06	7.86	13.3	2.05	641	7.33	0.033	0.237
SSED1		106.0	4.46	6.90	0.123	0.115	0.270	0.027	0.07	7.52	19.1	2.17	545	1.21	0.027	0.715



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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
Silt 1		130.0	0.071	4.80	0.024	0.009	3.33	0.001	0.02	1.125	9.09	0.8	0.27	42.4	<0.005	0.03
M896807		92.7	0.073	4.86	0.010	0.005	4.93	0.001	0.04	0.971	6.99	0.9	0.29	41.8	<0.005	0.02
M896801		42.5	0.092	6.91	0.008	<0.002	5.96	<0.001	0.13	1.790	7.75	1.8	0.26	43.2	<0.005	0.03
M896802		49.1	0.095	4.92	0.003	<0.002	4.24	<0.001	0.06	1.015	8.36	1.0	0.34	27.6	<0.005	0.03
M896803		73.5	0.099	8.36	0.007	0.003	3.37	0.008	0.18	2.07	10.80	4.3	0.28	57.5	<0.005	0.04
M896804		96.7	0.093	9.41	0.016	0.004	4.12	0.001	0.09	1.460	13.95	2.2	0.30	36.1	<0.005	0.04
M896805		149.0	0.075	5.44	0.018	0.007	3.53	0.002	0.05	1.280	10.20	1.1	0.31	43.6	<0.005	0.06
M896806		93.6	0.113	7.63	0.012	0.006	3.18	0.011	0.16	3.30	13.65	4.9	0.31	56.4	0.006	0.06
SSED1		96.5	0.091	6.62	0.010	0.005	4.38	<0.001	0.06	1.215	9.47	1.5	0.30	40.9	0.006	0.04



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		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
Silt 1		0.920	0.128	0.041	0.301	106.5	0.097	9.19	79.6	6.06
M896807		1.065	0.114	0.056	0.423	89.5	0.147	8.67	76.7	2.88
M896801		0.650	0.053	0.079	0.593	70.8	0.130	13.30	95.4	1.69
M896802		0.742	0.158	0.048	0.380	162.5	0.116	8.42	112.0	1.88
M896803		0.778	0.075	0.127	0.609	100.5	0.079	11.15	164.5	3.84
M896804		0.811	0.120	0.085	0.467	111.5	0.116	16.75	114.0	3.41
M896805		1.030	0.127	0.047	0.338	111.0	0.099	9.96	89.7	8.97
M896806		0.870	0.110	0.119	0.737	131.5	0.121	14.45	200	7.38
SSED1		0.923	0.116	0.046	0.411	99.8	0.102	11.10	99.8	4.17



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CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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.
LOG-22 SCR-41 WEI-21

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