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2014

Quality Analysis ...



Innovative Technologies

Date Submitted: 30-Jun-14  
Invoice No.: A14-04376  
Invoice Date: 15-Jul-14  
Your Reference:

Sierra Development Services Inc.  
35 Church St.  
Unit #509  
Toronto Ontario M5E 1T3  
Canada

ATTN: Aldo Palma

**CERTIFICATE OF ANALYSIS**

1 Rock samples were submitted for analysis.

The following analytical package was requested:

Code 1H INAA(INAAGEO)/Total Digestion ICP(TOTAL)

REPORT **A14-04376**

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Notes:

Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.

CERTIFIED BY:

Emmanuel Esemé, Ph.D.  
Quality Control

ACTIVATION LABORATORIES LTD.  
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5  
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com



Results

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Ca	Br	Co	Cr	Cs	Eu	Fe	Hf	Hg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.01	0.5	1	2	1	0.2	0.01	1	1
Analysis Method	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
ALDO-04	< 2	< 0.3	3	< 0.3	1	< 3	19	17	< 0.01	0.92	< 0.5	< 50	< 1	< 2	0.31	< 0.5	6	26	< 1	< 0.2	1.03	< 1	< 1

**Results**

Analyte Symbol	Sn	Tb	Yb	Lu	Mass
Unit Symbol	%	ppm	ppm	ppm	g
Detection Limit	0.01	0.5	0.2	0.05	
Analysis Method	INAA	INAA	INAA	INAA	INAA
ALDO-04	< 0.01	< 0.5	< 0.2	< 0.05	34.4

QC

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Ca	Br	Co	Cr	Cs	Eu	Fe	Hf	Hg	
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	
Detection Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.01	0.5	1	2	1	0.2	0.01	1	1	
Analysis Method	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	
GXR-1 Meas			1180	2.7	14	701			0.25	2.17			1	1390	0.91									
GXR-1 Cert			1110	3.30	18.0	730			0.257	3.52			1.22	1380	0.960									
GXR-4 Meas			6880	0.4	311	49			1.77	6.80			2	14	1.07									
GXR-4 Cert			6520	0.860	310	52.0			1.77	7.20			1.90	19.0	1.01									
SDC-1 Meas			29			22				8.18			3		1.06									
SDC-1 Cert			30.00			25.00				8.34			3.00		1.00									
SAR-M (U.S.G.S.) Meas			357	5.5	13	1020				5.83			3	< 2	0.52									
SAR-M (U.S.G.S.) Cert			331	5.27	13.1	982				6.30			2.20	1.94	0.61									
DNC-1a Meas			99																					
DNC-1a Cert			100.0																					
SBC-1 Meas			32	< 0.3	2	27							3	< 2										
SBC-1 Cert			31.0	0.40	2.40	35.0							3.20	0.70										
DMMAS 116 Meas	1520										1550	1220					41	73				3.18		
DMMAS 116 Cert	1610										1560	1190					41.0	77.0				3.12		
Method Blank			< 1	< 0.3	< 1	< 3			< 0.01	< 0.01			< 1	< 2	< 0.01									
Method Blank	< 2										< 0.5	< 50					< 0.5	< 1	< 2	< 1	< 0.2	< 0.01	< 1	< 1

QC

Analyte Symbol	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Analysis Method	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
GXR-1 Meas		0.05	8	0.20	951		0.057					290		0.03			85		30				
GXR-1 Cert		0.050	8.20	0.217	852		0.0650					275		0.036			80.0		32.0				
GXR-4 Meas		3.21	11	1.71	148		0.131					219		0.29			89		14				
GXR-4 Cert		4.01	11.1	1.66	155		0.120					221		0.29			87.0		14.0				
SDC-1 Meas		2.83	32	0.97	832		0.052					167		0.19			51						
SDC-1 Cert		2.72	34.00	1.02	880.00		0.0690					180.00		0.606			102.00						
SAR-M (U.S.G.S.) Meas		2.73	29	0.48	5240		0.068					151		0.39			70		29				
SAR-M (U.S.G.S.) Cert		2.94	27.4	0.50	5220		0.07					151		0.38			67.2		28.00				
DNC-1a Meas			4									128		0.28			141		15				
DNC-1a Cert			5.20									144.0		0.29			148.00		18.0				
SBC-1 Meas			153									180		0.46			215		31				
SBC-1 Cert			163.0									178.0		0.51			220.0		36.5				
DMMAS 116 Meas						2.16		8.6	6.2							10.2				16.4	3		2.4
DMMAS 116 Cert						1.98		6.80	6.30							11.2				15.9	30.0		2.40
Method Blank		< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01						15.9	30.0		2.40
Method Blank	< 5					< 0.01		< 15	< 0.1	< 0.1	< 3		< 0.5		< 0.2	< 0.5		< 2	< 1	< 0.5	< 3	< 5	< 0.1

QC

Analyte Symbol	Sn	Tb	Yb	Lu	Mass
Unit Symbol	%	ppm	ppm	ppm	g
Detection Limit	0.01	0.5	0.2	0.05	
Analysis Method	INAA	INAA	INAA	INAA	INAA
GXR-1 Meas					
GXR-1 Cert					
GXR-4 Meas					
GXR-4 Cert					
SDC-1 Meas					
SDC-1 Cert					
SAR-M (U.S.G.S.) Meas					
SAR-M (U.S.G.S.) Cert					
DNC-1a Meas					
DNC-1a Cert					
SBC-1 Meas					
SBC-1 Cert					
DMMAS 116 Meas					
DMMAS 116 Cert					
Method Blank					
Method Blank	< 0.01	< 0.5	< 0.2	< 0.05	30.0

Results

Analyte Symbol	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Analysis Method	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
ALDO-04	< 5	0.14	7	0.24	208	0.23	0.008	< 15	0.1	2.9	< 3	12	< 0.5	0.09	1.8	< 0.5	25	< 1	3	2.1	6	< 5	0.5

Quality Analysis ...



Innovative Technologies

Invoice No.: A14-04376  
Purchase Order:  
Invoice Date: 15-Jul-14  
Date submitted: 30-Jun-14  
Your Reference:  
GST #: R121979355

Sierra Development Services Inc.  
35 Church St.  
Unit #509  
Toronto Ontario M5E 1T3  
Canada  
ATTN: Aldo Palma

### INVOICE

No. samples	Description	Unit Price	Total
1	RX1	\$ 10.00	\$ 10.00
1	1H	\$ 30.20	\$ 30.20
1	Min.Charge \$100.00	\$ 59.80	\$ 59.80
		Subtotal: :	\$ 100.00
		HST-13% :	\$ 13.00
		<b>AMOUNT DUE: (CAD) :</b>	<b>\$ 113.00</b>

Net 30 days. 1 1/2 % per month charged on overdue accounts.

The above amount has been paid by Visa. Thank you for your payment!  
Auth#045520, July 15, 2014.

Please reference the invoice number when making a payment by Bank/Wire transfer. Intermediary Bank Fees are the responsibility of the client. Thank you!

**ACTIVATION LABORATORIES LTD.**

41 Bittern Street, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or  
+1.888.228.5227 FAX +1.905.648.9613

E-MAIL [ancaster@actlabs.com](mailto:ancaster@actlabs.com) ACTLABS GROUP WEBSITE <http://www.actlabs.com>









**Rock Samples Collected by Wilderness Walkabouts, 2005.**

Sample_ID	Laboratory	Lab No.	Date	UTM_E	UTM_N	Elevation	Job Number	Method	Sample Description	Visual MoS <sub>2</sub> %	Sample_Type	Cu	Mo
												ppm	ppm
48356	Accurassay	143607	2005	677327	5317658	351 m	200542103	Mo 407	quartz orange stain	1	tr D2 old loose		8963
48357	Accurassay	143608	2005	677325	5317653	348 m	200542103	Mo 407	quartz orange stain	0.5 to 1	tr D2 old loose		8848
48358	Accurassay	143609	2005	677319	5317663	344 m	200542103	Mo 407	granite	0.5	tr D insitu		4099
48359	Accurassay	143610	2005	677330	5317653	344 m	200542103	Mo 407	quartz	2 to 3	tr D loose		18099
48360	Accurassay	143611	2005	677307	5317639	351 m	200542103	Mo 407	quartz in gran insitu	0.5	between t02 and t03		10998
48361	Accurassay	143612	2005	677268	5317643	361 m	200542103	Mo 407	granite	trace	tr B		799
48362	Accurassay	143613	2005	677435	5317832	363 m	200542103	Mo 407	quartz yellow stained	1	tr E area-in trench 7		4397
48363	Accurassay	143614	2005	677468	5317855	357 m	200542103	Mo 407	granite orange alt	minor mo cpy	tr E area-in trench 8	207	734
48364	Accurassay	143615	2005	677468	5317855	358 m	200542103	Mo 407	granite red carb alt	3	tr E area-in trench 8		3447
48365	Accurassay	143616	2005	677568	5317958	407 m	200542103	Mo 407	quartz	0.5	old trench		2627
48365	Accurassay	143617	2005	677568	5317958	407 m	200542103	Mo 407	quartz				2492
48366	Accurassay	143618	2005	677583	5317955	402 m	200542103	Mo 407	granite	1 to 2	tr J insitu		9509
48367	Accurassay	143619	2005	677570	5317973	401 m	200542103	Mo 407	granite and quartz	2 to 3	tr J loose		23142
48368	Accurassay	143620	2005	677581	5317962	403 m	200542103	Mo 407	quartz	2	tr J loose		18982
48369	Accurassay	143621	2005	677528	5317971	403 m	200542103	Mo 407	granite 1cm seam mo	4 to 5	tr H loose		40789
48370	Accurassay	143622	2005	677525	5317990	402 m	200542103	Mo 407	quartz flooded gran	0.5 diss	tr H minor cpy also	587	2470
48371	Accurassay	143623	2005	677558	5317896		200542103	Mo 407	Rusty red/orange gran	0.50%	Qtz stockwork E of T20		2190
48372	Accurassay	143624	2005	677598	5317864	376 m	200542103	Mo 407	Qtz, red-ora in pk gran	3	T21 insitu		19171
48373	Accurassay	143625	2005	677592	5317855	380 m	200542103	Mo 407	Qtz, red-ora in pk gran	5-Mar	T21 loose, select		13561
48374	Accurassay	143626	2005	677605	5317886	378 m	200542103	Mo 407	Mgr'd pink alt'd gran	.5 Mo in Fract	T22 Tr G		4887
48375	Accurassay	143627	2005	677605	5317886	378 m	200542103	Mo 407	Gran + sm QV	min mo	T24 bottom (par to M)		3121
48375	Accurassay	143628	2005	677689	5317938	388 m	200542103	Mo 407	Gran + sm QV				3653
48376	Accurassay	143629	2005	677660	5317963	391 m	200542103	Mo 407	Pk gran + cm QV	1	T24 top, select		9164
48377	Accurassay	143630	2005	677685	5317959	388 m	200542103	Mo 407	White QV	5-10%	M, loose		22456
48378	Accurassay	143631	2005	677681	5317975	383 m	200542103	Mo 407	Gran next to QV	1	M, insitu		9926
48379	Accurassay	143632	2005	677715	5317978	385 m	200542103	Mo 407	2-3cm QV in Gran	50%	N, loose, select		160954
48380	Accurassay	143633	2005	677724	5317989	383 m	200542103	Mo 407	QV + gran	1.5	N, loose, 3m zone		16609
48381	Accurassay	143634	2005	677652	5318007	401 m	200542103	Mo 407	Mafic dk/schist		L, 1/2% cpy + po	2286	689
48382	Accurassay	143635	2005	677573	5317816	367 m	200542103	Mo 407	Horizontal QV, sug	Min mo + cpy	T20, south end	1555	1180
48383	Accurassay	143636	2005	677329	5317658	344 m	200542103	Mo 407	Gran + Qtz	3-5% mo	D		44262
48384	Accurassay	143637	2005	677328	5317663	346 m	200542103	Mo 407	Granite	min mo, 1/2 % cpy	D	417	838

**Rock (Grab) Samples Analysed at MNDM Geolabs, Sudbury, 2014**

Sample_ID	Laboratory	Submitted By	UTM_E	UTM_N	Job Number	Test Gp	Date		
001-ALDO-2013	OGS Geolab	Anthony Pace	5317783	677464	13-0278	SEM-101,XRD-101	29-Nov-2013		
002-ALDO-2013	OGS Geolab	2013	5317799	677463	13-0278				
003-ALDO-2013	OGS Geolab	2013	5317961	677593	13-0278				
Ag	Ag_opt	Au_opt	Au_ppb	Pd	Pt	Al	Ba	Be	
ppm									
0.05	0.05	0.005	3	0.65	0.2	15 782	90.1	0.36	
0.05	0.05	0.005	22	0.65	0.2	42 860	291.3	1.77	
0.05	0.1	0.005	7	0.65	0.2	66 775	258	3.02	
Bi	Ca	Cd	Co	Cr	Cs	Cu	Fe	Ga	
0.173	435	1.3	1.4	70	0.13	18	3118	4.96	
0.028	3470	0.05	0.9	148	0.48	20	4137	13.32	
0.16	9211	0.63	3.1	24	3	116	<b>15 824</b>	23.59	
Hf	K	Li	Mg	Mn	Mo	Na	Nb	Ni	
0.17	11 899	0.5	29	15	1456.64	4506	1.58	3	
1.23	16 542	3.2	479	209	22.88	20 697	5.48	3	
3.3	18 267	25.4	<b>2509</b>	411	386.65	28 910	<b>18.06</b>	3	
P	Pb	Rb	Sb	Sc	Sm	Sn	Sr	Ta	
19	3	24.63	0.26	0.9	0.2	0.27	7	0.2	
51	13.5	56.69	0.1	1.4	1.28	1.57	43	0.7	
<b>196</b>	15.2	103.18	0.04	4.3	5.57	6.46	94	3	
Th	Ti	Tl	U	V	W	Zn	Zr	Total REE	
0.78	30.78	0.08	0.11	10	0.5	8	5	2.143	
4.68	201.75	0.23	1.14	10	0.5	25.21	34	32.91	
13.48	<b>1113.78</b>	0.44	5.77	18.45	0.98	87.18	86	<b>152.619</b>	
FeO	CO2	S							
0.16	0.16	0.08							
0.29	0.25	0.01							
1.39	0.85	0.16							

## Appendix 5-2 Historical Trench Sample Analyses

Locations Unknowable

Author	Date	Source	Length ft	Mo%	MoS2	Remarks
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.09		Not known which trench these samples are from. Assessment Report 42C02SE0212, page 6
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.06		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.06		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.15		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.03		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.03		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.06		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.03		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.06		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.09		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.09		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.09		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.06		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.12		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.24		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.06		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.06		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.3		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.15		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.03		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.06		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.06		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.09		
C. Riley	11-Sep-58	42C02SE0212, page 6	3.0	0.09		
C. Riley	11-Sep-58	42C02SE0212, page 6	<b>75.0</b>	<b>0.083</b>	<b>0.13</b>	
J.D. Mateer Assessment Report 42C02SE0212, page 22	1959	42C02SE0212, page 11	50.0	0.25		50 lb sample
	1959	42C02SE0212, page 11				Another 25 ft wide zone lies 3/4 mile northeast of claim 9096
	1959	42C02SE0212, page 18				Describes moly disseminated in granite
	1959	42C02SE0212, page 22	111.0	0.3		Number 6 trench/North Adit trench
	1959	42C02SE0212, page 22	27.0	0.38		Trench 4
	1959	42C02SE0212, page 22	17.0	0.46		Trench 3
Possibly Deep Lake Mines sampling reproduced by Ranwick. Not known if these are Mo or MoS2. See map on page 30, 42C02SE0212	1959	42C02SE0212, page 30	66.0	0.47		Trench 1
	1959	42C02SE0212, page 30	80.0	0.24		Trench 2
	1959	42C02SE0212, page 30	66.0	1.13		Trench 8
	1959	42C02SE0212, page 30		0.89		Pit 9
	1959	42C02SE0212, page 30	80.0	0.26		Trench 5
	1959	42C02SE0212, page 30		0.33		Pit 7
	1959	42C02SE0212, page 30	60.0	0.6		Trench 6
	1959	42C02SE0212, page 30		0.08		Pit 4
	1959	42C02SE0212, page 30	123.0	0.41		Trench 3
1959	42C02SE0212, page 30	30.0	0.24		P. Stripping	
Falconbridge sampling of existing trenches	1936-1939	42CO2SW0124, page 1			0.192	Average of 52 channel samples
	1936-1939	42CO2SW0124, page 1	20.6		0.373	From a trench at the northwest end of the zone
	1936-1939	42CO2SW0124, page 1			0.44	Sampling of a dump 800 feet west of the 20.6 foot sample
Deep Lake Gold Mines, Mines Branch Ottawa	1943	42CO2SW0124, page 1			2.65	Bulk trench sample
	1943	42CO2SW0124, page 1			4.42	Bulk trench sample
	1943	42CO2SW0124, page 1			1.96	Bulk trench sample
	1943	42CO2SW0124, page 1			7.37	Bulk trench sample
International Ranwick	1958					Optioned to Billiton
Pax International Mines Lt	1958+					

**APPENDIX 5-3. Diamond Drill Analyses, Aldo Palma Property, Lastheels Township**

Hole_ID	Sample_#	Depth From (m)	Depth To (m)	Length_m	Mo_ppm	Mo%	Sample Description	Lab	Date/Year	Source
<b>AMAX</b>										
945-02-21	4161	3.2	4.7	1.5	1240	0.124		Swastika	1980	42C02SE0207
945-02-21	4162	4.7	6.26	1.56	732	0.0732		Swastika	1980	pp. 66-68
945-02-21	4163	6.26	7.82	1.56	2480	0.248		Swastika	1980	as above
945-02-21	4164	7.82	9.2	1.38	1190	0.119		Swastika	1980	as above
945-02-21	4165	9.2	10.76	1.56	184	0.0184		Swastika	1980	as above
945-02-21	4166	10.76	12.03	1.27	756	0.0756		Swastika	1980	as above
945-02-21	4167	12.03	13.59	1.56	144	0.0144		Swastika	1980	as above
945-02-21	4168	13.59	14.86	1.27	36	0.0036		Swastika	1980	as above
945-02-21	4169	14.86	16.42	1.56	424	0.0424		Swastika	1980	as above
945-02-21	4170	43.5	44.94	1.44	752	0.0752		Swastika	1980	as above
945-02-21	4171	44.94	46.25	1.31	196	0.0196		Swastika	1980	as above
945-02-21	4172	46.25	48.06	1.81	272	0.0272		Swastika	1980	as above
<b>BILLITON</b>										
Billiton-1	601	2.74	5.24	2.50	0	0		not known	1959	42SC02SE0212
Billiton-1	602	5.24	6.86	1.62	0	0		not known	1959	42SC02SE0212
Billiton-1	603	6.86	8.93	2.07	0	0		not known	1959	42SC02SE0212
Billiton-1	604	8.93	12.19	3.26	200	0.02		not known	1959	42SC02SE0212
Billiton-1	605	12.19	15.24	3.05	200	0.02		not known	1959	42SC02SE0212
Billiton-1	606	15.24	16.76	1.52	50	0.005		not known	1959	42SC02SE0212
Billiton-1	607	16.76	18.29	1.52	50	0.005		not known	1959	42SC02SE0212
Billiton-1	608	18.29	24.38	6.10	50	0.005		not known	1959	42SC02SE0212
Billiton-1	609	24.38	27.43	3.05	300	0.03		not known	1959	42SC02SE0212
Billiton-1	610	27.43	30.48	3.05	50	0.005	2 ft ground core	not known	1959	42SC02SE0212
Billiton-1	611	30.48	33.53	3.05	200	0.02		not known	1959	42SC02SE0212
Billiton-1	612	33.53	36.58	3.05	0	0		not known	1959	42SC02SE0212
Billiton-1	613	36.58	39.62	3.05	0	0		not known	1959	42SC02SE0212
Billiton-1	614	39.62	42.67	3.05	0	0		not known	1959	42SC02SE0212
Billiton-1	615	42.67	45.72	3.05	200	0.02		not known	1959	42SC02SE0212
Billiton-1	616	45.72	48.77	3.05	200	0.02		not known	1959	42SC02SE0212
Billiton-1	617	48.77	51.82	3.05	200	0.02		not known	1959	42SC02SE0212
Billiton-1	618	51.82	54.86	3.05	100	0.01		not known	1959	42SC02SE0212
Billiton-1	619	54.86	57.91	3.05	200	0.02		not known	1959	42SC02SE0212
Billiton-1	620	57.91	60.96	3.05	50	0.005		not known	1959	42SC02SE0212
Billiton-1	621	60.96	64.01	3.05	900	0.09		not known	1959	42SC02SE0212
Billiton-1	622	64.01	67.06	3.05	700	0.07	2 ft ground core	not known	1959	42SC02SE0212
Billiton-1	623	67.06	70.10	3.05	0	0		not known	1959	42SC02SE0212
Billiton-1	624	70.10	73.15	3.05	0	0		not known	1959	42SC02SE0212
Billiton-1	625	73.15	76.20	3.05	0	0		not known	1959	42SC02SE0212
Billiton-1	626	76.20	79.25	3.05	200	0.02		not known	1959	42SC02SE0212
Billiton-1	627	79.25	82.30	3.05	100	0.01		not known	1959	42SC02SE0212
Billiton-1	628	82.30	85.34	3.05	0	0		not known	1959	42SC02SE0212
Billiton-1	629	85.34	88.39	3.05	0	0		not known	1959	42SC02SE0212
Billiton-1	630	88.39	91.44	3.05	50	0.005		not known	1959	42SC02SE0212
Billiton-1	631	91.44	94.49	3.05	300	0.03		not known	1959	42SC02SE0212
Billiton-1	632	94.49	97.54	3.05	100	0.01		not known	1959	42SC02SE0212
Billiton-1	633	97.54	100.58	3.05	0	0		not known	1959	42SC02SE0212
Billiton-1	634	100.58	103.63	3.05	200	0.02		not known	1959	42SC02SE0212
Billiton-1	635	103.63	106.68	3.05	0	0		not known	1959	42SC02SE0212
Billiton-1	636	106.68	109.73	3.05	0	0		not known	1959	42SC02SE0212
Billiton-1	637	109.73	112.78	3.05	0	0		not known	1959	42SC02SE0212
Billiton-1	638	112.78	116.74	3.96	0	0		not known	1959	42SC02SE0212
Billiton-2	B-2-1	36.58	39.62	3.05	500	0.05		not known	1959	42SC02SE0212
Billiton-2	B-2-2	48.77	51.82	3.05	500	0.05		not known	1959	42SC02SE0212
Billiton-2	B-2-3	51.82	54.86	3.05	2500	0.25		not known	1959	42SC02SE0212
Billiton-2	B-2-4	57.91	60.96	3.05	300	0.03		not known	1959	42SC02SE0212
Billiton-2	B-2-5	70.10	73.15	3.05	300	0.03		not known	1959	42SC02SE0212
Billiton-3								not sample	1959	42SC02SE0212

### APPENDIX 5-3\_Historical Drill Hole Survey Data

#### Diamond Drill Holes

Hole_ID	Start	Finish	Grid_E_ft	Grid_N_ft	UTM_E	UTM_N	Azimuth	Inclination	Casing_ft	Final_Depth_ft	Year
Amax 945-02-21	August 5, 1980	August 7, 1980	-440	80	enter from maps		-	-90	3.9 m	193	1980
Billiton-1	March 5, 1959	March 13, 1959	-1600	-1417	enter from maps		150	-45	9	383	1953
Billiton-2	March 5, 1959	March 13, 1959	-400	-336	enter from maps		150	-40		800	1953
Billiton-3	March 5, 1959	March 13, 1959	-716	-257	enter from maps		150	-40		713	1953

Amax Percussion Drill Holes			Grid_E_ft	Grid_N_ft	Input from Amax Map		42C02SE0207			Metres	
1	30-Oct-79		-975	50			140	-65	2	3.05	1979
1a			-975	40			140	-65	2	5.18	1979
1b			-975	0				-90	2	3.96	1979
2			-930	20			150	-65	0	15.24	1979
2a			-930	24				-90	0	10.36	1979
3			-860	60			155	-66	3	26.82	1979
4			-830	50			150	-62	5	14.33	1979
5			-630	75			155	-65	8	6.4	1979
6			-600	100			135	-65	6	11.28	1979
7			-445	125			175	-70	5	21.34	1979
8			-445	100				-90	5	12.19	1979
9			-445	75				-90	0	3.05	1979
9a			-445	75				-90	0	3.05	1979
10			-420	55				-90	0	3.66	1979
10a			-415	55				-90	0	3.35	1979
11			-415	65				-90	2	7.01	1979
12			-415	80				-90	0	2.44	1979
13			-400	100				-90	0	5.49	1979
14			-670	18			145	-65	6	9.75	1979
14a			-675	18				-90	0	6.1	1979
15			-580	50			140	-65	5	20.42	1979
16			-387	135				-90	0	4.57	1979
17			-440	75				-90	0	1.52	1979
17a			-440	75				-90	0	10.67	1979
18			-725	15				-90	4	6.1	1979
19		24-Nov-79	-750	0				-90	4	6.71	1979
									Total m:	224.04	

## APPENDIX 5-5 Historical Percussion Drill Analyses

### Aldo Palma Molybdenum Property, Lastheels Township

Sample_#	Hole Length Metres	Sample Length Metres	Recovery %	Mo*	Sample Description	Lab	Date/Year
1	3.05	2.74	11	0.002	Granitic	Swastika	1980
1a	5.18	4.57	17	0.001	Granitic	Swastika	1980
1b	3.96	3.05	67	0.001	Granitic	Swastika	1980
2	15.24	14.63	24	0.011	Granitic	Swastika	1980
2a	10.36	9.45	52	0.028	Granitic	Swastika	1980
3	26.82	25.91	17	0.018	Granitic	Swastika	1980
4	14.33	12.8	8	0.021	Granitic	Swastika	1980
5	6.4	4.57	10	0.003	Granitic	Swastika	1980
6	11.28	11.28	54	0.007	Granitic	Swastika	1980
7	21.34	19.81	63	0.015	Granitic	Swastika	1980
8	12.19	10.67	64	0.101	Granitic	Swastika	1980
9	3.05	2.13	46	0.043	Granitic	Swastika	1980
9a	3.05	3.05	38	0.006	Granitic	Swastika	1980
10	3.66	3.66	48	0.044	Granitic	Swastika	1980
10a	3.35	3.35	62	0.008	Granitic	Swastika	1980
11	7.01	6.4	54	0.06	Granitic	Swastika	1980
12	2.44	2.44	50	0.036	Granitic	Swastika	1980
13	5.49	5.49	58	0.013	Granitic	Swastika	1980
14	9.75	7.92	22	0.001	Mafic	Swastika	1980
14a	6.1	6.1	68	0.0015	Mafic	Swastika	1980
15	20.42	18.9	64	0.012	Granitic	Swastika	1980
16	4.57	4.57	49	0.003	Mafic	Swastika	1980
17	1.52	1.52	16	0.002	Granitic	Swastika	1980
17a	10.67	10.67	55	0.118	Granitic	Swastika	1980
18	6.1	4.88	48	0.001	Mafic	Swastika	1980
19	6.71	5.49	64	0.001	Granitic	Swastika	1980
19	6.71	1.52	64	0.001	Granitic	Swastika	1980

\* Labelled in report as MoS<sub>2</sub>, but is probably Mo.



## APPENDIX 5-6 Stream Sediment Analyses Collected by AMAX 1979

Try to digitize UTM's from Map (page 25 of 42C02SE0207)

Sample_#	Map_ID	UTM_E	UTM_N	UTM_Zone	Cu	Mo	Mn	Fe
7951	1			16	26	1	3,420	29,000
7952	2			16	29	<1	450	18,900
7953	3			16	30	<1	1,640	25,500
7954	4			16	39	<1	610	28,500
7955	5			16	20	1	3,200	26,500
7956	6			16	25	<1	950	20,800
7957	7			16	36	<1	2,080	20,900
7958	8			16	17	2	328	8,400
7959	9			16	28	<1	2,420	25,900
7960	10			16	29	1	690	16,200
7961	11			16	18	2	1,480	23,000
7962	12			16	19	3	830	27,800
7963	13			16	15	3	815	16,000
7964	14			16	28	<1	1,300	28,800
7965	15			16	25	<1	715	23,000
7966	A			16	27	<1	3,100	28,500
7967	B			16	13	<1	1,660	25,300
7968	C			16	16	<1	2,230	29,000
7969	D			16	22	<1	2,640	32,800
7970	E			16	30	<1	3,000	27,500
7971	F			16	59	<1	732	16,300
7972	G			16	23	<1	2,880	32,500
7973	H			16	39	<1	480	17,500
7974	I			16	21	<1	680	16,300
7975	J			16	23	4	25,500	59,900
7976	K			16	34	<1	1,700	24,800

Swastika Laboratories Limited Certificate of Analysis 48069, July 19, 1979.

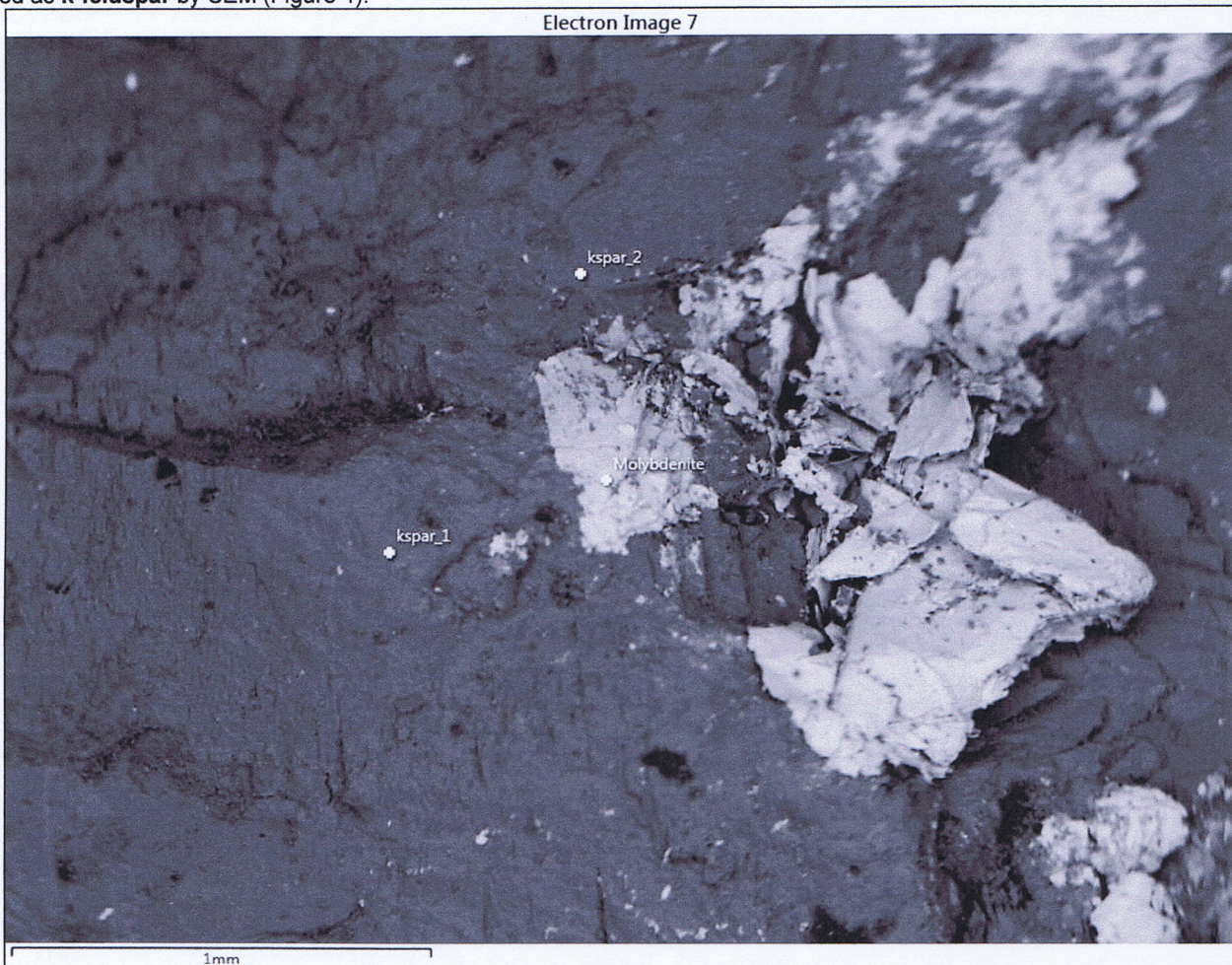
## Mineralogy Report

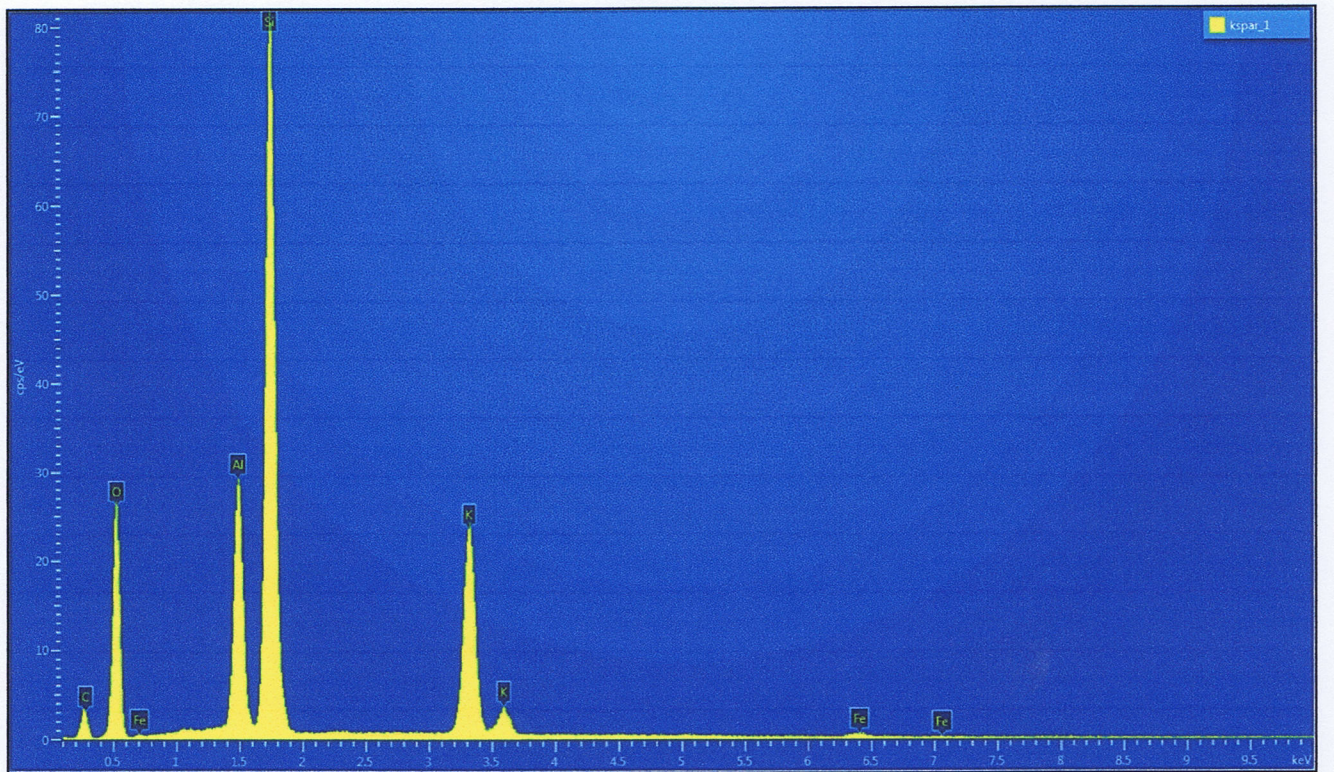
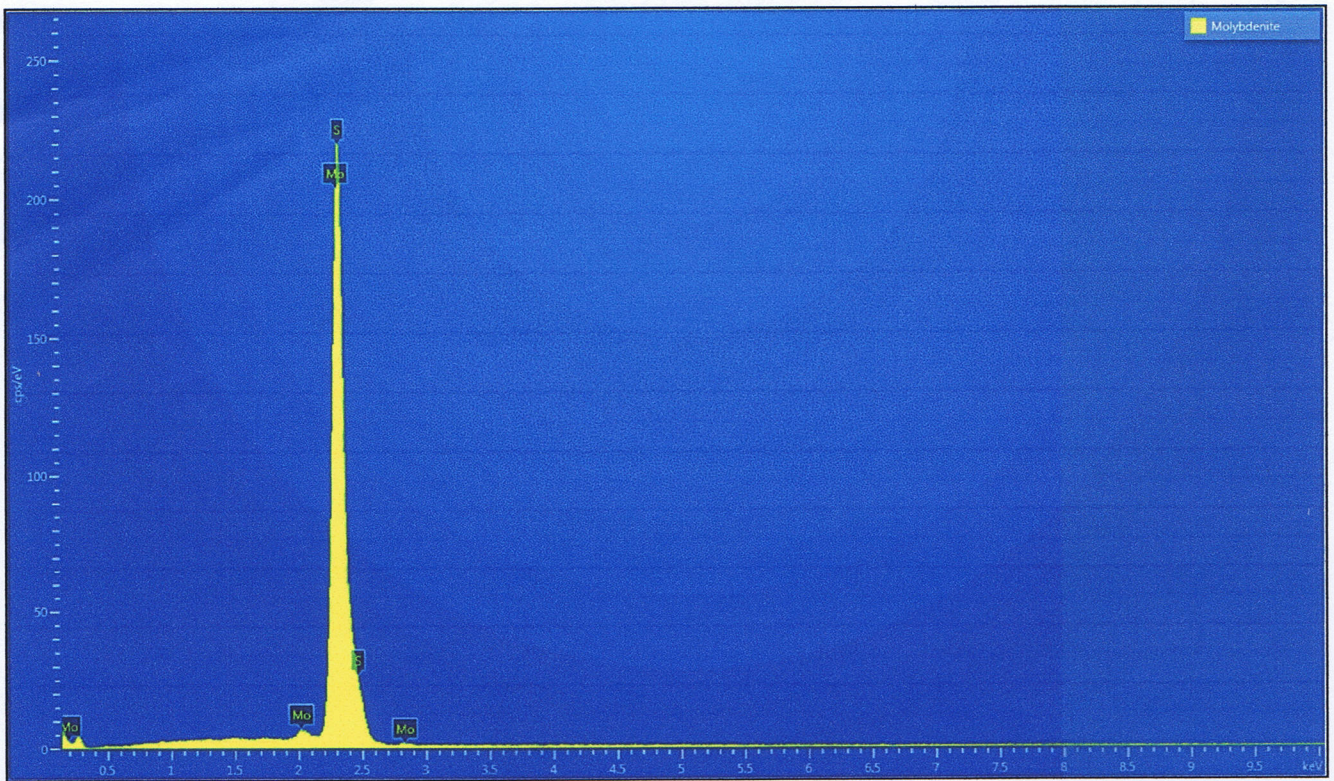
Client Contact: Anthony Pace  
GL Job Number: 13-0278  
Test Group: SEM-101 & XRD-101  
Date: November 29, 2013

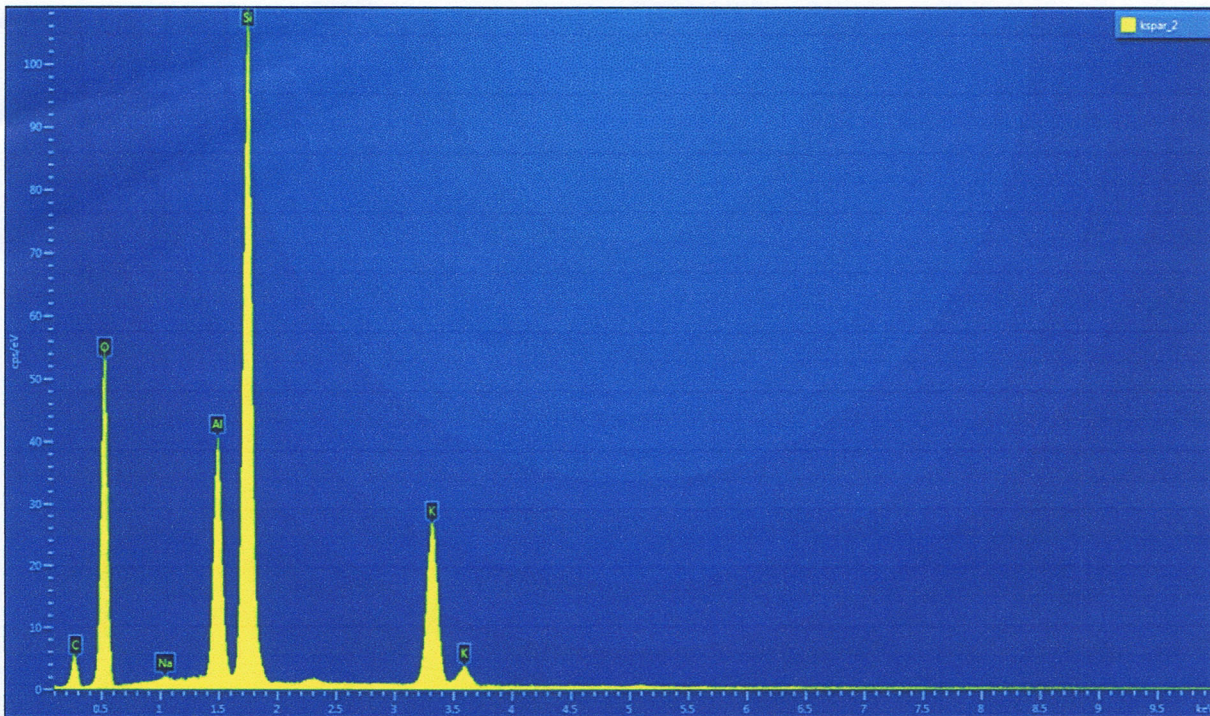
GL Sample ID: 13-0278-0004 (Client ID: ALDO Showing)

**Client Request:** Please identify the silver mineral in the circled area. It appears to be molybdenite. Also identify the pink alteration mineral beside the silver mineral (possible potassium alteration).

**Results:** A piece of the sample containing both minerals of interest was mounted on a SEM stub on double-sided carbon tape and carbon coated prior to analysis. The silver mineral is identified as **molybdenite** and the pink mineral beside the molybdenite is identified as **k-feldspar** by SEM (Figure 1).







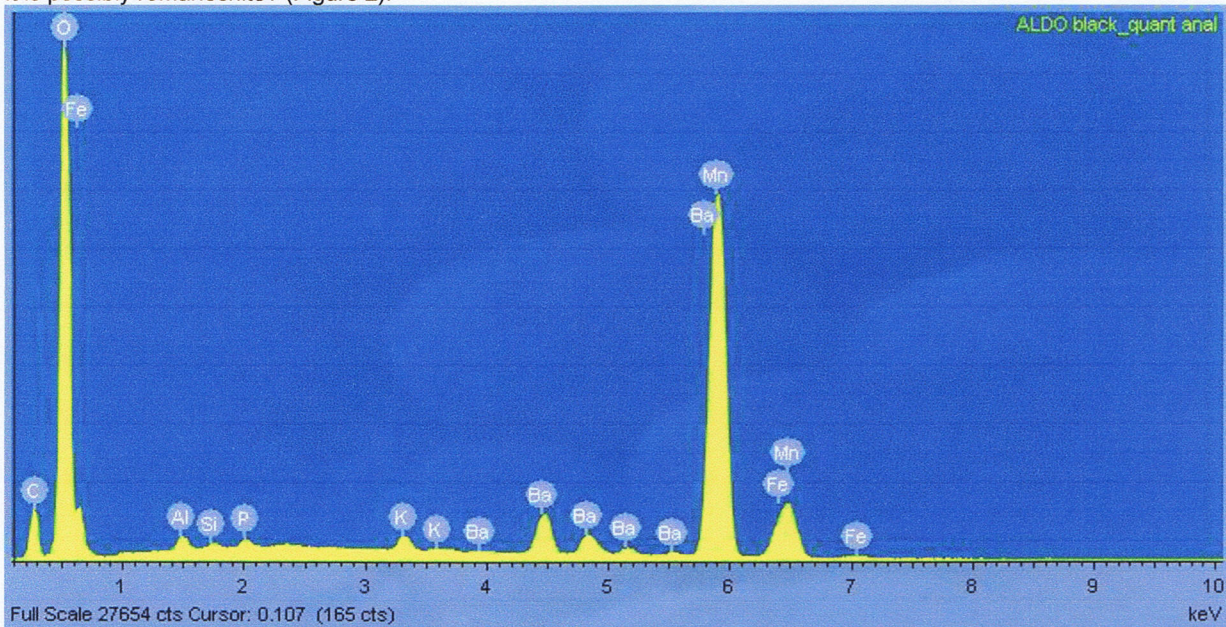
**Figure 1.** Backscattered electron (BSE) image and energy dispersive x-ray spectra of the minerals of interest, showing that the silver mineral (brightest) is molybdenite and the adjacent pink mineral is k-spar.

GL Sample ID: 13-0278-0005 (Client ID: ALDO Black)

**Client Request:** Please identify the black material on the sample.

A piece of the sample containing the black mineral of interest was mounted in an epoxy plug, polished and carbon coated prior to analysis by SEM. Also some of the black mineral was scraped off the sample and crushed and a smear was prepared on a low background silicon disk for analysis by XRD.

The XRD analysis was non-conclusive for this sample. The SEM analysis of the black mineral shows that it is a hydrated Mn, Ba-oxide. It is possibly romanechite? (Figure 2).



**Figure 2.** Energy dispersive spectrum of black mineral of interest.

Client: Pace  
Geo Labs JOB#: 13-0278  
Date: 10/24/2013  
Method Code: FEO-ION

Client ID	FeO
Units	wt%
Detect Lim	0.06
001-ALDO	0.16
002-ALDO	0.29
003-ALDO	1.39

Client: Pace  
Geo Labs JOB#: 13-0278  
Date: 11/21/2013  
Method Code: GFA-PBG

Client ID	Ag	Au
Units	oz/ton	oz/ton
Detect Lim	0.1	0.01
001-ALDO	<0.1	<0.01
002-ALDO	<0.1	<0.01
003-ALDO	0.1	<0.01

Client: Pace  
Geo Labs JOB#: 13-0278  
Date: 12/19/2013  
Method Code: IAO-100

Client ID	Al	Ba	Be	Ca	Co	Cr	Cu	Fe	K
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detect Lim	120	5	1	15	2	2	1	45	40
001-ALDO	15782	79 <1		435 <2		66	18	3118	11899
002-ALDO	42860	257	1	3470 <2		135	19	4137	16542
003-ALDO	66775	216	3	9211	3	22	112	15824	18267

Li ppm	Mg ppm	Mn ppm	Na ppm	Ni ppm	P ppm	Sc ppm	Sr ppm	Ti ppm	V ppm	
	1	15	1	300	2	15	1	2	3	1
<1		29	15	4506	4	19 <1		7	30 <1	
	3	479	209	20697	2	51	1	41	190	6
	23	2509	411	28910	2	196	3	91	1039	12



Y ppm	Zn ppm
1	5
1	5
2	23
22	83

Client: Pace  
Geo Labs JOB#: 13-0278  
Date: 01/03/2014  
Method Code: IMP-101

Client ID	Au	Pd	Pt
Units	ppb	ppb	ppb
Detect Limit	6	1.3	0.4
001-ALDO-2013	<6	<1.3	<0.4
002-ALDO-2013	22	<1.3	<0.4
003-ALDO-2013	7	<1.3	<0.4

Client: Pace  
Geo Labs JOB#: 13-0278  
Date: 11/04/2013  
Method Code: IRC-100

Client ID	CO2	S
Units	wt%	wt%
Detect Limit	0.03	0.01
001-ALDO-2013	0.16	0.08
002-ALDO-2013	0.25	0.01
003-ALDO-2013	0.85	0.16

Client: Pace  
 Geo Labs JOB#: 13-0278

Date: DEC. 9 / 2014

Method Code: IMO-100

Client ID	Ba	Be	Bi	Bi	Cd	Ce	Co	Cr	Cr	Cs	Cu	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Li	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Ti	Ti	Tm	U	V	W	Y	Yb	Zn	Zr		
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detect Limit	0.9	0.06	0.009	0.01	0.2	0.1	24	0.006	2	0.02	2	0.02	0.01	0.005	0.05	0.02	0.09	0.003	0.09	0.2	0.002	0.03	0.04	0.9	0.02	0.08	0.2	0.2	0.04	0.9	0.02	0.08	2	0.2	0.003	0.09	26	0.005	0.002	0.02	10	0.5	0.08	0.009	8	3		
001-ALDO-2013	90.1	0.36	0.173	1.3	0.56	1.4	70	0.13	18	0.12	0.05	0.07	4.96	0.17	0.17	0.02	0.26	0.5	<0.002	1456.6	1.58	0.25	3	0.06	24.63	0.26	<0.9	0.2	0.27	7	<0.2	0.023	30.78	0.08	0.006	0.11	<10	<0.5	0.52	0.034	<8	5	5					
002-ALDO-2013	291.5	1.77	0.028	0.05	17.39	0.9	148	0.48	20	0.49	0.17	0.32	13.32	1.1	1.23	0.07	5.57	3.2	0.03	22.88	5.48	4.3	<3	13.5	1.25	56.69	0.1	1.4	1.28	1.57	4.3	0.7	0.117	4.68	20.175	0.23	0.024	1.14	<10	<0.5	1.91	0.169	25.21	34				
003-ALDO-2013	258	3.02	0.16	0.03	54.29	3.1	24	3	116	4.6	2.06	0.54	23.59	5.41	3.3	0.77	27.41	25.4	0.25	386.65	18.06	23.17	3	15.2	6.19	103.18	0.04	4.3	5.57	6.46	94	3	0.818	13.48	1113.78	0.44	0.284	5.77	18.45	0.98	25.04	1.787	87.18	86				

Client: Pace

Geo Labs JOB#: 13-0278

Date: 12/19/2013

Method Code: IAO-100

Client ID	Al	Ba	Be	Ca	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Na	Ni	P	Sc	Sr	Ti	V	Y	Zn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detect Lir	120																				
001-ALDO	15782	79 <1	5	1	15	2	66	18	3118	11899 <1	1	15	1	300	2	15	1	2	3	1	5
002-ALDO	42860	257			435 <2		135	19	4137	16542	3	29	15	4506	4	19 <1	1	7	30 <1	6	5
003-ALDO	66775	216			3470 <2	3	22	112	15824	18267	23	479	209	20697	2	51	1	41	190	12	23
					9211							2509	411	28910	2	196	3	91	1039		83



# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0  
TELEPHONE: (705) 642-3244  
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

REC'D  
JUL  
TII.....

## Certificate of Analysis

OR.  
Certificate No. 48065 Date: July 27 1979

Received July 19 1979 26 Samples of Stream Sediments

Submitted by Amax Minerals, Timmins, Ont. - Samples per: Ed Ludwig

### Project # 945

SAMPLE NO.	COPPER PPM	MOLYBDENUM PPM	MANGANESE PPM	IRON PPM
7951	26	1	3420	29000
7952	29	< 1	450	18900
7953	30	< 1	1640	25500
7954	39	< 1	610	28500
7955	20	1	3200	26500
7956	25	< 1	950	20800
7957	36	< 1	2080	20900
7958	17	< 1	328	8400
7959	28	2 ←	2420	25900
7960	29	< 1	690	16200
7961	18	< 1	1480	23000
7962	19	1 -	830	27800
7963	15	2 ←	815	16000
7964	28	3 ←	1300	28800
7965	25	3 ←	715	23000
7966	27	< 1	3100	28500
7967	13	< 1	1660	25300
7968	16	< 1	2230	29000
7969	22	< 1	2640	32800
7970	30	< 1	3000	27500
7971	59	< 1	732	16300
7972	23	< 1	2880	32500
7973	39	< 1	480	17500
7974	21	< 1	680	16300
7975	23	< 1	25500	59900 omitted from
7976	34	< 1	1700	24800 a 10 ph

ASSAY NUMBERS THAT CORRESPOND WITH SAMPLE LOCATION NUMBERS

- #1 to #15 = 7951 - 7965
- #A to #K = 7966 - 7976

Per G. Lebel

G. Lebel - Manager