



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

Australian Laboratory Services Pty. Ltd.

32 Shand Street

Stafford

Brisbane QLD 4053

Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218 www.alschemex.com

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Finalized Date: 10-SEP-2009  
This copy reported on 5-OCT-2009  
Account: SOUURA

## CERTIFICATE MI09089818

Project: Calvert Hills

P.O. No.: 261626

This report is for 14 Drill Core samples submitted to our lab in Mount Isa, QLD, Australia on 26-AUG-2009.

The following have access to data associated with this certificate:

MERAAJ CHAND  
ROGER KEMP

JOHN ANDERSON  
BARRY WILLOTT

RICHARD HILL

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
LEV-02	Remote Lab Surcharge
CRU-21	Crush entire sample >70% -6 mm
CRU-31	Fine crushing - 70% <2mm
LEV-01	Waste Disposal Levy
SPL-22	Split sample - rotary splitter
BAG-01	Bulk Master for Storage
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
ME-MS61	48 element four acid ICP-MS	

To: SOUTHERN URANIUM LTD  
ATTN: MERAAJ CHAND  
PO BOX 343  
TOOWONG QLD 4066

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:

Shaun Kenny, Brisbane Laboratory Manager



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## CERTIFICATE OF ANALYSIS MI09089818

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
WF112653		2.02	0.12	7.06	1.9	220	2.87	0.07	0.23	<0.02	48.0	44.8	175	0.65	31.5	8.29
WF112654		1.89	0.05	3.83	1.1	170	1.90	0.04	0.11	<0.02	28.5	20.4	87	0.88	18.6	4.18
WF112655		3.74	0.09	6.53	1.4	310	2.37	0.08	0.18	<0.02	52.5	46.8	154	0.71	14.1	8.53
WF112656		3.50	0.08	7.04	1.8	260	2.46	0.09	0.19	<0.02	50.5	45.4	157	0.62	59.5	7.89
WF112657		2.88	0.07	4.40	1.3	270	1.96	0.05	1.92	<0.02	34.9	28.6	100	0.89	69.2	5.49
WF112658		1.56	0.06	1.73	6.2	40	1.20	0.39	0.16	0.02	36.5	4.4	63	1.30	11.0	2.88
WF112659		1.98	0.04	0.48	1.0	20	0.25	0.14	0.02	<0.02	8.52	1.3	54	0.26	8.1	1.65
WF112660		1.84	0.08	0.33	0.9	10	0.19	0.12	0.01	<0.02	9.07	0.7	45	0.19	5.2	0.75
WF112661		2.10	0.03	0.33	0.9	10	0.18	0.10	0.01	<0.02	10.45	0.8	52	0.20	6.3	1.01
WF112662		1.28	0.10	1.82	4.9	30	1.44	0.04	0.98	0.08	30.7	2.5	37	2.05	2.3	0.64
WF112663		1.44	0.10	1.51	5.1	30	0.76	0.03	0.93	0.04	25.6	2.7	40	2.46	4.4	0.79
WF112664		0.90	0.03	2.67	6.4	40	1.39	0.07	1.59	0.12	44.0	1.6	32	1.47	2.7	1.02
WF112665		3.51	0.03	1.55	1.5	30	0.37	0.07	0.02	<0.02	55.6	1.3	33	0.62	4.9	1.15
WF112666		0.63	0.11	1.35	1.4	50	0.23	0.16	0.05	<0.02	26.6	1.0	57	0.16	5.5	0.80



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## CERTIFICATE OF ANALYSIS MI09089818

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
WF112653		26.6	0.57	3.6	0.062	2.54	20.8	107.5	6.30	1100	0.38	0.02	11.5	107.5	820	6.4
WF112654		13.05	0.18	1.5	0.039	1.50	12.8	55.8	2.82	441	1.44	0.02	4.5	47.0	310	2.5
WF112655		25.4	0.51	3.4	0.069	2.72	24.9	68.7	5.35	921	0.55	0.02	10.8	100.0	670	4.7
WF112656		23.2	0.48	3.4	0.052	3.14	22.0	65.6	5.77	871	0.40	0.02	10.4	103.0	700	4.9
WF112657		13.55	0.24	2.1	0.178	1.51	14.9	74.4	4.87	1180	0.75	0.03	6.5	62.7	430	3.8
WF112658		6.55	0.14	2.8	0.017	0.75	21.0	14.8	0.19	61	1.45	0.01	3.4	15.9	690	12.4
WF112659		1.59	0.08	1.3	0.006	0.19	4.2	5.4	0.07	87	2.71	<0.01	1.0	4.0	60	4.8
WF112660		1.09	0.07	1.4	0.005	0.14	4.6	6.0	0.04	33	2.16	<0.01	1.0	2.6	40	1.9
WF112661		1.14	0.07	2.2	0.005	0.14	5.4	5.8	0.03	69	2.53	<0.01	1.4	3.4	60	2.1
WF112662		4.59	0.16	1.9	0.007	0.65	14.5	9.6	0.33	65	1.90	0.02	2.5	7.7	4490	5.0
WF112663		4.01	0.14	1.3	0.005	0.61	11.4	4.8	0.21	74	2.01	0.01	1.6	7.6	4320	5.5
WF112664		5.48	0.17	2.6	0.010	1.23	23.1	2.6	0.18	58	1.64	0.02	3.8	4.1	7440	9.4
WF112665		4.74	0.14	3.2	0.007	0.61	25.7	13.9	0.09	65	1.68	<0.01	3.3	3.4	230	2.7
WF112666		2.31	0.11	1.2	<0.005	0.09	11.6	15.0	0.02	47	1.05	<0.01	1.3	3.0	690	3.3



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
WF112653		41.4	<0.002	0.01	0.37	27.9	1	2.7	24.1	0.86	<0.05	7.4	0.891	0.13	2.5
WF112654		33.4	<0.002	0.01	0.35	12.8	<1	1.2	8.8	0.34	<0.05	3.0	0.349	0.10	1.1
WF112655		61.3	<0.002	0.01	0.49	26.2	1	2.6	9.3	0.79	<0.05	7.1	0.797	0.21	2.8
WF112656		62.3	<0.002	0.01	0.35	26.4	1	2.6	9.7	0.77	<0.05	7.0	0.824	0.27	2.3
WF112657		47.5	<0.002	0.01	0.37	18.6	1	1.7	18.4	0.48	<0.05	4.5	0.498	0.21	1.6
WF112658		29.0	<0.002	0.05	1.65	6.7	<1	1.0	31.6	0.30	<0.05	4.7	0.204	0.22	7.2
WF112659		6.9	<0.002	0.01	0.56	0.8	<1	0.6	6.5	0.09	<0.05	3.1	0.026	<0.02	2.5
WF112660		4.7	<0.002	0.01	0.41	0.4	<1	0.5	5.0	0.11	<0.05	2.5	0.026	<0.02	1.2
WF112661		5.2	<0.002	0.01	0.36	0.5	<1	0.9	9.6	0.15	<0.05	3.3	0.034	<0.02	1.4
WF112662		21.4	<0.002	0.01	0.65	1.5	<1	1.0	34.4	0.22	<0.05	8.3	0.058	0.05	7.2
WF112663		19.9	<0.002	0.01	0.55	1.5	<1	0.9	65.1	0.15	<0.05	7.7	0.035	0.04	10.0
WF112664		30.5	<0.002	0.01	0.93	1.5	<1	1.2	85.1	0.35	<0.05	11.7	0.092	0.06	9.0
WF112665		16.3	<0.002	0.01	0.68	1.6	1	1.3	206	0.32	<0.05	8.9	0.084	0.05	1.6
WF112666		2.2	<0.002	0.03	0.44	0.8	<1	0.7	814	0.14	<0.05	6.4	0.032	<0.02	1.9



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	PUL-QC
		W	Y	Zn	Zr	Au	Pt	Pd	Pass75um
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	2	0.5	0.001	0.0005	0.001	0.01
WF112653		0.9	23.6	127	166.5	0.003	0.0060	0.008	
WF112654		0.4	12.3	59	68.5	0.008	0.0032	0.007	
WF112655		0.8	23.4	127	154.0	0.007	0.0078	0.010	
WF112656		0.8	24.6	119	155.0	0.001	0.0054	0.007	
WF112657		0.6	18.5	68	98.0	0.001	0.0023	0.003	
WF112658		4.4	11.9	11	125.0	0.003	0.0031	0.002	
WF112659		1.4	4.2	3	60.7	0.001	0.0005	0.001	99.5
WF112660		1.1	3.4	<2	65.7	0.001	<0.0005	0.001	
WF112661		1.5	4.6	2	95.6	<0.001	<0.0005	0.001	
WF112662		0.8	12.2	4	85.4	<0.001	0.0005	0.001	
WF112663		0.8	12.0	4	61.0	0.003	0.0018	0.001	
WF112664		1.1	14.7	3	119.5	<0.001	0.0007	<0.001	
WF112665		1.4	15.7	2	147.0	<0.001	0.0006	<0.001	
WF112666		0.9	8.7	<2	53.3	0.005	0.0030	0.002	



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## CERTIFICATE OF ANALYSIS MI09089818

Method	CERTIFICATE COMMENTS
ME-MS61	REE's may not be totally soluble in this method.