



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

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Finalized Date: 21-JUN-2010  
Account: NUPRES

## CERTIFICATE AS10072371

Project: AILERON

P.O. No.: 266210

This report is for 21 Rock samples submitted to our lab in Alice Springs, NT, Australia on 4-JUN-2010.

The following have access to data associated with this certificate:

G DAVEY

WARRICK RAFFERTY

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LEV-01	Waste Disposal Levy
CRU-21	Crush entire sample >70% -6 mm
PUL-23	Pulv Sample - Split/Retain
PUL-QC	Pulverizing QC Test

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61r	48 element four acid ICP-MS + REEs
Au-AA25	Ore Grade Au 30g FA AA finish AAS

To: **NUPOWER RESOURCES LTD**  
**ATTN: WARRICK RAFFERTY**  
**GPO BOX 2552**  
**DARWIN NT 0801**

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:

Wayne Abbott, Operations Manager, Western Australia



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## CERTIFICATE OF ANALYSIS AS10072371

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	ME-MS61r Ag ppm	ME-MS61r Al %	ME-MS61r As ppm	ME-MS61r Ba ppm	ME-MS61r Be ppm	ME-MS61r Bi ppm	ME-MS61r Ca %	ME-MS61r Cd ppm	ME-MS61r Ce ppm	ME-MS61r Co ppm	ME-MS61r Cr ppm	ME-MS61r Cs ppm	ME-MS61r Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
20071		1.61		0.11	5.86	0.4	470	2.48	0.23	0.40	<0.02	111.0	3.6	7	9.23	4.4
20072		1.33		0.09	6.38	1.0	1070	1.25	0.04	0.07	0.02	105.0	5.8	19	6.29	10.6
20073		1.80		0.04	5.85	0.6	190	3.06	0.72	0.64	<0.02	70.2	3.1	6	13.40	10.1
20074		1.77		0.05	3.23	0.2	180	0.82	0.21	0.04	<0.02	341	3.4	4	3.36	4.6
20075		1.96		0.32	4.90	0.8	170	1.14	1.08	0.82	<0.02	>500	6.4	4	7.11	6.0
20076		1.62		0.03	5.81	<0.2	120	1.16	0.31	0.45	<0.02	103.0	1.5	7	0.96	4.5
20077		1.77		0.03	7.08	0.2	220	2.73	0.25	0.40	<0.02	214	2.1	2	4.09	4.0
20078		1.71		<0.01	6.01	0.4	300	0.68	0.27	0.34	<0.02	27.7	3.5	6	1.95	4.6
20079		1.64		<0.01	6.36	<0.2	250	2.16	0.11	0.51	<0.02	32.6	5.0	11	4.31	6.0
20080		1.54		0.16	6.09	0.5	200	3.68	0.11	0.16	<0.02	113.5	1.5	3	1.70	4.1
20081		1.89	94.9	<0.01	7.70	0.7	20	9.01	0.93	0.62	<0.02	378	1.1	3	0.63	5.1
20082		1.95		<0.01	5.76	0.6	180	4.19	0.11	0.21	<0.02	158.5	1.7	6	7.02	4.5
20083		1.89		0.36	4.02	<0.2	130	1.29	0.25	0.02	<0.02	>500	6.4	18	9.85	16.0
20084		2.30		0.30	1.96	<0.2	90	0.51	0.21	0.01	<0.02	>500	4.0	5	4.67	4.6
20085		1.77		0.02	5.44	0.8	270	0.96	0.89	0.25	<0.02	43.8	3.8	10	4.79	9.9
20086		1.98		0.04	6.63	0.4	240	1.25	0.13	0.56	<0.02	468	9.9	4	5.25	5.6
20087		1.58		0.06	7.20	0.9	400	1.51	0.12	1.09	0.04	>500	5.2	4	3.29	4.7
20088		1.82		<0.01	7.56	0.9	200	1.61	0.07	1.11	0.02	>500	3.8	9	3.43	5.3
20089		1.66		0.02	6.53	0.3	90	1.61	0.12	0.48	<0.02	44.0	2.0	4	5.84	7.6
20090		1.89		0.15	1.55	2.1	260	4.91	0.13	0.52	0.93	39.4	1330	9	1.82	12.2
20091		2.51		0.19	1.57	4.8	1080	7.58	0.12	0.26	0.70	37.9	243	11	1.47	8.9



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Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	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
20071		1.41	16.15	0.22	4.3	0.010	3.73	51.1	11.2	0.30	81	0.41	1.77	10.8	5.2	290
20072		2.31	14.85	0.23	3.8	0.026	4.44	55.0	14.0	0.29	319	1.67	0.24	10.7	9.8	790
20073		1.28	12.70	0.18	3.3	0.020	3.10	31.6	28.2	0.15	152	0.63	1.81	10.4	3.7	240
20074		2.08	15.40	0.61	15.8	0.051	2.43	150.5	24.8	0.78	91	0.51	0.43	15.4	2.9	260
20075		4.13	37.3	4.03	40.0	0.132	4.45	1170	72.2	0.74	368	0.71	0.49	33.9	3.3	5290
20076		1.29	24.7	0.21	7.2	0.022	4.43	48.2	10.3	0.08	101	1.11	1.26	11.6	3.5	120
20077		1.80	26.3	0.37	6.4	0.038	4.76	87.1	53.2	0.40	316	2.11	1.92	28.2	1.7	260
20078		1.06	12.25	0.15	5.7	0.010	4.78	16.9	8.1	0.24	92	0.30	1.17	4.3	4.6	110
20079		1.66	15.35	0.17	6.7	0.009	4.78	17.7	11.0	0.27	183	0.82	1.28	13.2	6.3	240
20080		0.65	27.9	0.21	4.9	0.010	0.83	43.0	14.1	0.55	54	0.39	4.01	39.4	2.3	90
20081		1.97	35.9	0.55	9.1	0.046	0.20	154.0	6.8	0.12	198	0.46	6.04	30.8	1.9	120
20082		1.39	26.3	0.20	6.6	0.034	3.73	27.9	15.1	0.03	249	0.96	1.65	22.9	3.5	90
20083		5.26	32.9	1.42	26.6	0.282	2.88	319	91.2	1.50	304	0.66	0.12	68.7	9.4	540
20084		3.49	24.7	2.26	54.1	0.159	1.40	540	43.6	1.00	199	0.96	0.07	49.2	4.7	1060
20085		1.56	12.15	0.21	3.0	0.037	3.53	23.7	5.4	0.27	101	1.62	0.25	1.3	5.8	1270
20086		5.07	25.0	0.60	6.8	0.054	4.50	215	50.0	0.57	372	0.76	0.99	25.8	4.3	270
20087		1.91	19.45	0.66	22.4	0.021	3.92	312	19.5	0.27	300	0.55	1.81	10.6	2.4	590
20088		1.79	20.3	0.77	4.8	0.018	4.60	375	19.5	0.26	166	0.94	1.78	9.2	4.5	340
20089		0.75	14.85	0.16	2.9	0.012	3.76	20.6	21.3	0.11	90	0.38	1.89	4.1	1.9	340
20090		36.7	15.55	1.08	0.5	0.015	0.96	19.2	11.2	0.99	>100000	1.15	0.08	2.9	237	530
20091		>50	6.66	1.30	0.8	0.014	0.51	18.2	10.0	1.49	25300	2.25	0.03	2.7	127.0	1560



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Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.1
20071		21.7	429	0.002	0.01	0.06	5.7	2	16.2	36.8	2.25	<0.05	55.8	0.154	19.5
20072		36.9	397	0.002	0.02	0.11	6.8	2	4.9	229	0.97	<0.05	35.4	0.196	7.9
20073		30.5	389	<0.002	<0.01	0.05	3.7	2	10.3	50.1	1.67	<0.05	47.7	0.129	9.3
20074		23.3	308	0.003	<0.01	0.05	5.1	4	13.2	15.0	1.30	<0.05	170.5	0.169	12.2
20075		114.0	560	0.015	<0.01	0.05	27.2	31	24.3	28.2	3.78	0.06	1370	0.399	76.4
20076		33.2	435	<0.002	<0.01	0.06	1.5	2	3.5	22.7	0.49	<0.05	69.7	0.073	7.3
20077		46.3	480	0.002	<0.01	<0.05	3.1	3	3.3	36.5	2.61	<0.05	81.2	0.120	20.6
20078		22.0	338	<0.002	<0.01	<0.05	5.0	1	4.7	43.0	0.45	<0.05	79.6	0.145	9.4
20079		18.3	445	<0.002	<0.01	0.07	6.8	2	4.2	35.0	1.86	<0.05	102.5	0.214	25.9
20080		16.3	132.0	0.002	0.01	0.06	3.1	3	26.0	15.2	7.66	<0.05	83.8	0.052	19.7
20081		17.3	27.8	0.004	<0.01	0.09	1.6	7	52.8	25.2	6.46	<0.05	134.0	0.084	42.5
20082		46.5	550	0.002	0.01	0.07	1.9	2	27.1	27.9	3.91	<0.05	66.8	0.064	8.4
20083		27.2	710	0.006	0.01	0.06	19.7	11	74.5	6.5	7.74	0.08	337	0.334	39.2
20084		46.3	363	0.009	<0.01	0.05	13.0	15	52.7	3.7	4.33	0.05	600	0.221	49.3
20085		71.9	219	<0.002	<0.01	0.12	6.6	2	2.1	119.0	0.30	0.16	13.4	0.049	109.5
20086		47.5	530	<0.002	0.01	<0.05	10.6	3	13.7	35.0	1.29	<0.05	406	0.534	9.1
20087		68.5	352	0.003	0.01	<0.05	7.4	4	3.3	61.7	0.73	<0.05	570	0.188	32.6
20088		54.3	448	0.002	<0.01	0.07	4.5	3	9.5	41.1	0.67	<0.05	490	0.144	9.7
20089		35.1	317	<0.002	<0.01	0.05	2.0	1	9.2	23.2	0.48	<0.05	32.0	0.043	18.3
20090		20.2	26.8	0.002	0.04	0.25	4.2	2	0.7	443	0.23	0.65	5.9	0.070	13.1
20091		6.0	15.4	0.003	0.05	0.62	3.7	3	0.6	92.6	0.21	0.67	4.9	0.070	32.3



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		V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	ppm 0.05	ppm 0.03	ppm 0.03	ppm 0.05	ppm 0.01	ppm 0.01	ppm 0.1	ppm 0.03	ppm 0.03
20071		14	1.3	23.8	3	111.5	5.31	2.16	0.62	8.10	0.91	0.23	41.6	13.50	8.16
20072		24	2.1	20.9	25	103.5	4.90	2.15	1.03	7.00	0.88	0.27	37.9	12.35	6.80
20073		11	4.2	17.8	10	84.9	3.70	1.62	0.40	5.05	0.67	0.18	24.5	7.94	4.94
20074		11	1.3	51.0	16	329	16.80	5.89	1.22	31.5	2.48	0.63	168.0	44.7	34.9
20075		14	3.8	>500	24	>500	135.0	48.9	3.13	239	22.2	4.69	1185	351	244
20076		2	1.3	21.2	9	138.5	4.18	1.81	0.55	6.63	0.73	0.22	35.1	11.05	6.60
20077		2	1.8	33.5	47	137.0	9.10	3.81	1.42	14.30	1.58	0.43	74.5	22.7	14.65
20078		17	0.3	9.4	3	155.0	1.41	0.81	0.69	1.64	0.31	0.13	7.3	2.45	1.45
20079		19	2.1	20.8	7	177.0	3.44	1.84	0.50	3.21	0.74	0.21	11.2	3.28	2.58
20080		2	8.1	62.2	<2	90.7	11.20	7.24	0.39	9.48	2.61	1.04	41.4	12.90	9.26
20081		19	4.8	187.0	4	167.5	27.8	17.90	0.56	29.1	6.43	2.49	144.0	38.8	29.4
20082		2	8.7	50.1	21	117.0	7.30	5.91	0.39	5.45	1.88	1.22	23.1	7.52	4.78
20083		19	4.0	193.0	65	474	47.9	21.2	1.60	74.7	8.08	2.85	361	107.0	92.1
20084		9	2.0	390	44	>500	68.6	25.7	2.44	118.0	10.15	3.29	611	179.5	148.0
20085		8	7.2	33.5	5	79.8	6.41	3.45	1.18	5.21	1.38	0.48	19.1	5.68	4.68
20086		19	0.8	30.9	50	182.5	9.52	2.97	0.88	21.6	1.30	0.20	137.5	41.0	20.2
20087		11	0.3	63.0	19	>500	16.15	7.58	1.09	28.4	2.91	0.88	172.0	53.8	26.4
20088		2	1.9	36.1	15	125.5	11.50	3.63	1.03	29.9	1.47	0.20	192.5	63.1	28.1
20089		2	1.0	12.8	2	65.2	2.61	1.22	0.21	3.16	0.48	0.15	14.2	4.76	3.51
20090		17	1.0	32.8	1140	13.9	3.15	2.40	0.66	3.27	0.84	0.38	15.3	4.54	2.81
20091		49	6.5	24.1	452	23.1	2.84	2.08	0.91	3.10	0.71	0.36	14.3	4.36	2.66



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Sample Description	Method	ME-MS61r	ME-MS61r	Au-AA25
	Analyte	Tm	Yb	Au
	Units	ppm	ppm	ppm
	LOR	0.01	0.03	0.01
20071		0.28	1.49	<0.01
20072		0.29	1.66	<0.01
20073		0.21	1.16	<0.01
20074		0.70	4.19	<0.01
20075		5.39	29.9	<0.01
20076		0.24	1.37	<0.01
20077		0.50	2.80	<0.01
20078		0.12	0.73	<0.01
20079		0.27	1.39	0.01
20080		1.23	7.07	<0.01
20081		2.87	16.20	<0.01
20082		1.17	7.75	<0.01
20083		3.17	19.15	<0.01
20084		3.55	21.5	<0.01
20085		0.56	3.26	<0.01
20086		0.23	1.20	<0.01
20087		0.97	5.54	<0.01
20088		0.26	1.31	<0.01
20089		0.18	1.07	<0.01
20090		0.38	2.19	<0.01
20091		0.34	1.95	<0.01



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Method	CERTIFICATE COMMENTS
ME-MS61r	REE's may not be totally soluble in this method.