



# 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: 21-MAR-2007  
Account: ARARES

## CERTIFICATE AS07014826

Project: Lucy Creek

P.O. No.: 0561

This report is for 207 Percussion samples submitted to our lab in Alice Springs, NT, Australia on 14-FEB-2007.

The following have access to data associated with this certificate:

JOHN GOULEVITCH

KELVIN HUSSEY

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
WSH-22	"Wash" pulverizers
LEV-01	Waste Disposal Levy
PUL-QC	Pulverizing QC Test
PUL-22	Pulverizing 3kg sample in LM5
HOM-01	Homogenise Sample

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS62s	Up to 54 elements by ICP-MS	ICP-MS

To: **ARAFURA RESOURCES NL**  
**ATTN: JOHN GOULEVITCH**  
**REAR UNIT LOT 3047 EXPORT DRIVE**  
**BERRIMAH NT 0828**

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.

**Signature:**

Shaun Kenny, Brisbane Laboratory Manager



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## CERTIFICATE OF ANALYSIS AS07014826

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	ME-MS62s Ce ppm 0.01	ME-MS62s La ppm 0.5	ME-MS62s Sr ppm 0.02	ME-MS62s Th ppm 0.2	ME-MS62s U ppm 0.1
FLUSH A		<0.02		30.9	17.7	210	6.3	0.8
FLUSH B		<0.02		28.5	16.9	218	5.7	0.8
FLUSH C		<0.02		27.4	15.5	222	4.9	0.7
761475		0.93		26.7	10.6	>500	4.0	33.3
761476		1.04		70.1	33.5	414	11.9	32.5
761477		1.17		88.1	44.3	195.5	17.7	17.0
761478		2.12		78.4	37.1	111.0	15.6	13.4
761479		1.21		78.5	40.4	87.6	16.2	5.7
761480		1.38		71.7	38.8	57.9	16.1	8.3
761481		1.24	98.6	94.5	50.0	61.0	19.6	5.4
761482		1.37		85.4	43.1	49.1	17.9	6.4
761483		1.54		75.0	30.3	30.6	8.1	3.5
761484		1.63		67.4	26.6	30.8	7.4	2.1
761485		1.45		94.9	39.3	37.4	10.2	2.0
761486		1.76		127.5	49.8	46.7	14.7	3.2
761487		1.87		177.0	58.4	101.0	17.7	7.2
761488		1.35		61.9	27.1	51.9	11.8	5.2
761489		1.31		99.4	42.6	314	17.5	28.5
761490		0.67		82.2	42.8	167.5	16.8	27.3
761491		1.11		88.8	46.7	312	18.4	19.8
761492		1.38		96.4	50.7	>500	18.2	8.0
761493		1.73		80.1	42.5	382	18.3	19.1
761494		0.91		73.8	34.6	271	11.8	25.3
761495		1.22		81.2	36.4	383	12.8	14.1
761496		0.87		146.0	63.1	>500	17.5	16.9
761497		0.90		123.5	49.0	>500	14.2	21.2
761498		1.14		222	83.5	>500	36.2	33.8
761515		1.15		51.2	26.5	180.5	10.1	31.7
761528		1.59		86.0	44.7	118.0	19.0	19.6
761529		1.45		111.5	59.3	307	22.0	11.8
761530		1.04		176.5	74.4	264	23.3	20.2
761531		1.48		73.9	31.2	52.6	9.0	2.2
761532		1.04		64.7	27.5	57.4	8.5	1.8
761556		1.14		52.9	27.4	58.2	10.5	2.9
761565		2.19		103.5	46.3	412	15.7	30.7
761566		2.18		90.4	41.6	>500	14.3	40.2
761567		1.43		79.1	36.9	438	13.5	39.4
761568		1.23		76.1	34.7	444	12.7	40.1
761569		2.58		84.9	38.8	>500	13.9	35.1
761570		1.98		107.5	47.1	>500	16.7	32.1



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761571		1.15		146.0	60.1	463	20.6	43.6
761572		2.19		105.0	48.5	178.5	21.8	34.6
761573		1.63		218	95.5	>500	31.1	56.6
761574		1.12		117.5	57.8	173.5	21.3	10.5
761575		1.72		112.0	54.8	167.0	19.7	8.0
761576		1.71		301	111.0	>500	38.7	29.9
761577		1.11		257	111.5	>500	29.7	41.3
761578		1.89		197.5	94.7	>500	22.8	43.3
761579		1.19	87.4	148.0	50.3	>500	13.2	20.5
761580		1.37		213	66.3	>500	22.4	20.8
761581		2.69		89.4	44.9	103.0	14.5	6.4
761582		3.36		99.1	39.7	425	14.0	77.6
761583		2.29		51.1	18.8	172.5	8.5	76.5
761584		3.24		102.5	38.6	327	17.8	65.7
761585		3.32		195.0	79.9	>500	30.2	47.2
761586		4.59		104.0	48.5	170.5	22.1	29.4
761587		3.37		97.2	46.6	219	19.3	28.4
761588		3.04		147.0	68.3	403	23.6	6.2
761589		1.48		123.0	60.8	270	25.4	4.4
761590		1.62		201	95.2	>500	36.4	11.2
761591		1.79		301	141.5	>500	31.4	8.5
761592		2.09		348	139.5	>500	24.8	8.2
761593		2.31		204	82.1	338	19.9	3.7
761594		2.87		77.7	35.1	104.0	10.4	1.8
761595		0.38		121.5	48.7	222	13.5	12.7
761596		1.27		92.3	36.7	93.8	13.0	4.4
761597		1.63		105.5	40.9	67.0	14.4	2.1
761598		1.67		147.0	55.9	98.4	17.6	2.1
761603		1.81		103.5	38.0	441	12.6	24.7
761604		1.60		90.2	34.9	219	11.0	36.0
761605		3.01		117.5	50.9	>500	17.6	37.2
761606		2.01		129.5	52.9	>500	18.7	26.6
761616		0.43		241	91.7	333	20.8	62.0
761617		0.59		137.0	49.5	221	10.7	57.4
761618		1.40		47.0	23.9	119.0	14.8	29.3
761619		2.11		153.5	71.2	302	25.7	35.0
761620		1.81		153.0	62.8	374	21.0	86.7
761621		1.87		148.5	69.5	319	24.2	21.8
761622		2.39		127.0	59.9	288	21.4	8.2
761623		2.09		119.0	54.5	201	20.4	9.1



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761624		2.53		156.0	61.8	279	20.7	11.0
761625		2.84		117.5	46.9	93.7	15.3	3.8
761626		3.27		111.5	47.8	65.2	16.7	4.7
761627		2.45		146.5	55.1	89.0	13.9	3.2
761628		2.05		139.5	53.7	129.5	12.7	4.1
761629		2.57		270	89.6	333	18.1	13.1
761630		3.16		208	83.4	380	18.4	9.3
761631		1.79	89.1	100.5	45.0	346	15.5	33.3
761632		2.52		63.9	24.6	301	9.3	36.9
761633		2.30		99.7	37.2	>500	12.8	40.7
761634		3.52		136.5	52.8	>500	18.0	43.7
761635		1.72		85.6	42.1	236	17.1	22.4
761636		1.32		88.5	41.9	208	16.9	14.7
761637		1.15		167.5	70.5	>500	22.3	8.3
761638		2.01		144.5	62.3	205	21.7	6.2
761639		1.55		72.1	27.3	48.8	10.2	2.2
761640		2.42		84.4	33.2	88.2	10.8	3.0
761641		2.18		90.8	35.0	102.5	9.8	2.6
761642		2.02		119.0	44.2	136.5	11.3	2.1
761643		2.19		264	98.0	384	25.7	4.7
761647		1.64		82.4	36.5	114.0	12.2	40.4
761648		1.94		69.0	28.5	98.9	9.9	90.0
761649		1.61		34.9	14.0	161.0	5.2	70.5
761650		1.50		57.4	23.5	311	8.7	133.5
761651		1.55		93.1	37.9	410	14.3	62.8
761652		0.76		86.2	45.1	420	17.3	25.2
761653		1.28		84.9	42.6	312	17.1	20.1
761660		2.12		88.8	38.8	83.7	13.6	8.9
761661		0.70		43.8	21.0	486	8.4	47.5
761662		1.13		19.25	8.5	248	3.4	36.7
761663		1.80		20.2	8.7	190.5	4.1	53.2
761664		1.06		21.1	8.4	194.0	2.7	41.3
761665		0.81		42.8	16.3	>500	5.2	71.0
761666		1.26		82.5	32.8	>500	13.1	85.7
761667		1.35		110.5	45.1	>500	17.0	51.1
761668		1.83		73.5	35.4	283	14.8	25.0
761669		1.36		92.2	44.7	432	17.4	21.9
761670		1.40		103.5	52.6	385	21.1	8.4
761671		1.71		104.5	48.0	285	17.5	5.7
761672		1.39		121.0	45.4	345	13.3	8.1



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761673		1.57		171.5	70.4	264	18.6	11.4
761674		1.52		48.3	22.1	>500	12.5	25.7
761675		3.25		22.9	11.6	>500	4.6	27.2
131648		2.07		50.0	25.3	85.5	9.2	2.6
131649		2.04		96.1	48.2	237	18.7	17.5
131650		2.03		48.9	26.7	235	8.3	8.1
131651		2.89	90.6	50.0	21.6	32.3	7.9	1.4
131652		2.17		54.8	27.3	91.8	10.4	2.6
131653		2.27		57.4	29.5	86.2	10.2	6.0
131654		2.06		72.9	37.4	295	14.8	5.3
131655		1.82		57.8	28.9	308	11.3	3.0
131656		1.97		20.9	11.2	>500	4.9	6.5
131657		1.16		57.8	29.2	114.0	11.1	9.5
131658		1.95		93.4	41.6	422	16.6	8.9
131659		2.86		27.5	14.3	>500	5.7	11.8
131660		1.78		56.9	28.8	128.5	11.0	4.7
131661		1.87		57.6	22.0	62.8	7.1	2.6
131662		1.18		44.9	21.6	157.0	9.5	11.2
131663		0.38		34.1	22.3	>500	5.9	20.3
131664		1.88		53.1	26.0	49.6	10.4	6.6
131665		1.70		50.8	24.4	90.1	9.5	6.6
131666		1.68		18.70	9.5	318	3.9	6.6
131667		1.46		56.1	26.9	85.0	10.2	4.6
131668		1.97		101.5	50.3	65.0	19.1	4.3
131669		1.77		42.1	20.7	167.0	8.0	16.4
131670		1.31		68.5	34.0	112.0	12.6	4.9
131671		1.38		64.2	30.9	43.6	11.8	8.0
131672		1.83		87.3	43.7	95.0	17.2	6.3
131673		1.70		18.95	9.3	124.0	3.7	14.2
131674		1.44		77.4	43.9	447	16.4	18.9
131675		1.46		44.0	21.1	166.5	13.3	15.8
131676		1.76		56.1	27.7	71.0	10.6	4.4
131677		1.50		41.1	21.3	87.3	8.7	3.3
131678		1.64		52.5	25.7	56.9	9.9	3.2
131679		1.01		48.7	23.1	47.6	9.3	2.7
131680		1.76		23.2	10.9	201	4.6	42.8
131681		2.18		43.6	21.1	36.4	8.1	8.6
131682		1.79		52.5	25.7	73.2	9.8	6.4
131683		1.75		38.6	18.7	107.0	6.7	12.1
131684		1.69		55.9	27.1	68.1	10.8	7.7



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131685		1.18		48.8	23.9	212	9.2	11.8
131686		1.74		27.4	12.7	100.5	6.0	6.8
131687		1.61		67.3	31.3	96.3	10.7	3.4
131688		1.38		44.5	20.5	65.4	10.4	12.1
131689		1.71		58.7	28.7	100.0	11.0	3.2
131690		2.47		33.8	15.7	277	6.5	19.9
131691		3.03		10.40	5.3	110.5	1.9	4.8
131692		1.85		57.3	28.3	367	10.6	3.7
131693		1.66		14.50	6.7	47.6	2.9	5.9
131694		1.84		23.8	12.3	291	3.8	15.6
131695		1.09		38.2	26.3	193.0	5.6	142.5
131696		1.77		44.0	21.7	>500	7.8	6.0
131697		1.62		29.8	14.7	234	6.4	43.4
131698		1.44		56.1	27.7	73.1	9.9	3.1
131699		1.63		59.5	26.1	99.1	9.7	8.0
131700		1.80		11.00	7.0	196.0	2.1	17.0
133329		3.85		26.6	13.4	247	4.5	12.7
133330		1.25		103.5	43.9	70.0	17.8	5.0
133331		1.85		59.8	28.6	268	11.4	3.1
133332		1.46		113.0	53.7	111.0	21.0	12.3
133333		1.70		67.5	29.5	238	12.0	24.6
133334		1.32		49.8	23.8	95.4	9.1	16.3
133335		1.80		38.9	17.6	37.6	8.9	6.9
133336		1.35		55.0	26.0	118.5	9.6	6.0
133337		1.09		82.4	32.1	104.0	9.7	8.7
133338		1.90		65.8	32.6	157.5	12.3	5.1
133339		1.48		113.5	54.5	191.5	22.1	8.1
133340		1.84		53.8	26.3	209	9.7	6.9
133341		2.48		101.5	40.3	>500	15.7	56.5
133342		2.26		119.0	40.7	358	17.5	14.3
133343		1.40		165.0	54.3	265	21.0	42.8
133344		1.59		89.5	33.1	>500	11.9	9.3
133345		0.94		59.9	21.7	>500	6.8	29.0
133346		0.90		98.1	43.9	215	17.1	9.6
133347		1.46		48.6	19.1	268	7.4	40.4
133348		1.50		97.3	39.3	85.8	12.2	19.4
133349		1.29		104.5	39.6	46.2	10.4	2.3
133350		2.42		50.4	24.3	190.0	9.4	39.0
133351		2.25		151.5	62.3	207	20.2	15.2
133352		1.22		57.0	27.7	59.7	10.7	2.9



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133353		1.64		220	84.3	>500	31.2	20.2
133354		2.15		103.5	47.7	163.5	20.3	27.1
133355		2.13		97.8	35.6	424	11.9	23.7
133356		1.96		115.0	52.7	203	19.3	8.8
133357		1.73	97.1	85.4	41.4	324	16.2	13.3
133358		0.90		41.5	15.3	>500	4.6	58.0
133359		2.66		23.6	11.8	>500	4.6	28.1