



# 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

Page: 1  
Finalized Date: 23-JUN-2009  
Account: NUPRES

## QC CERTIFICATE AS09049479

Project: LUCY CREEK P

P.O. No.: 2009/3

This report is for 274 Pulp samples submitted to our lab in Alice Springs, NT, Australia on 25-MAY-2009.

The following have access to data associated with this certificate:

WARRICK RAFFERTY

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
LEV-01	Waste Disposal Levy
LEV-02	Remote Lab Surcharge
PUL-21	Pulverize entire sample

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS62s	Up to 54 elements by ICP-MS	ICP-MS
ME-XRF12p	Phosphates by XRF	XRF
ME-GRA05	H2O/LOI by TGA furnace	TGA
ME-ICP61	33 element four acid ICP-AES	ICP-AES

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.

Signature:

Shaun Kenny, Brisbane Laboratory Manager



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Page: 2 - A

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## QC CERTIFICATE OF ANALYSIS AS09049479

Method	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-GRA05	ME-ICP61	ME-ICP61	ME-ICP61
Analyte	Al2O3	CaO	Fe2O3	K2O	MgO	MnO2	Na2O	P2O5	SiO2	TiO2	Total	LOI		Cd	Co	Cr
Units	%	%	%	%	%	%	%	%	%	%	%	%		ppm	ppm	ppm
LOR	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.5	1	1
Sample Description	STANDARDS															
BAUX CS4													23.46			
BAUX CS4													23.52			
BAUX CS4													23.72			
BAUX CS4													23.62			
BAUX CS4													23.55			
BAUX CS4													23.73			
BAUX CS4													23.67			
BAUX CS4													23.63			
BAUX CS4													23.55			
BAUX CS4													23.51			
BAUX CS4													23.68			
BAUX CS4													23.72			
BAUX CS4													23.69			
BAUX CS4													23.68			
BAUX CS4													23.51			
BAUX CS4													23.62			
BAUX CS4													23.46			
Target Range - Lower Bound													22.85			
Upper Bound													24.29			
BCS-348	31.6	0.17	1.02	2.22	0.30	<0.01	0.36	0.07	50.9	1.06	99.64					
BCS-348	31.6	0.17	1.02	2.22	0.31	<0.01	0.36	0.07	50.9	1.06	99.69					
BCS-348	31.5	0.17	1.02	2.21	0.30	<0.01	0.35	0.07	51.0	1.05	99.62					
Target Range - Lower Bound	31.3	0.16	1.02	2.20	0.29	<0.01	0.31	0.06	50.6	1.05						
Upper Bound	31.9	0.18	1.06	2.26	0.31	0.02	0.37	0.08	51.6	1.11						
G2000														7.5	25	106
G2000														6.9	23	94
G2000														7.5	25	100
G2000														7.3	23	101
Target Range - Lower Bound														6.0	21	90
Upper Bound														8.4	27	112
GBM398-4c														7.7	1890	1730
GBM398-4c														7.2	1820	1540
GBM398-4c														7.6	1910	1670
GBM398-4c														7.4	1850	1580
Target Range - Lower Bound														5.8	1775	1540
Upper Bound														8.2	2170	1885



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Page: 2 - B

Total # Pages: 9 (A - B)

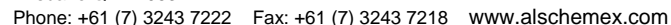
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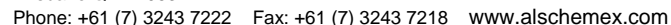
Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-MS62s	ME-MS62s	ME-MS62s	ME-MS62s
Analyte	Cu	La	Mn	Mo	Ni	P	Pb	S	Sr	V	Zn	As	Ce	Th	U
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR	1	10	5	1	1	10	2	0.01	1	1	2	0.2	0.01	0.2	0.1
Sample Description	STANDARDS														
BAUX CS4															
BAUX CS4															
BAUX CS4															
BAUX CS4															
BAUX CS4															
BAUX CS4															
BAUX CS4															
BAUX CS4															
BAUX CS4															
BAUX CS4															
BAUX CS4															
BAUX CS4															
BAUX CS4															
BAUX CS4															
Target Range - Lower Bound															
Upper Bound															
BCS-348															
BCS-348															
BCS-348															
Target Range - Lower Bound															
Upper Bound															
G2000	311	20	569	5	276	1000	670	0.27	121	107	1380	488	56.5	7.5	3.7
G2000	297	20	546	5	248	1010	653	0.26	111	98	1235	456	50.7	6.8	3.4
G2000	317	30	577	5	270	1050	709	0.28	120	103	1315	456	53.6	7.0	3.6
G2000	312	20	585	5	280	1060	714	0.28	117	106	1300	497	54.1	7.3	3.6
Target Range - Lower Bound	272	20	506	5	246	870	601	0.23	103	94	1160	435	47.9	6.4	2.9
Upper Bound	334	40	630	8	302	1080	739	0.30	129	117	1420	>500	58.5	8.2	3.7
GBM398-4c	3990	<10	5190	915	4050	480	>10000	1.01	66	61	5230	6.8	8.11	1.1	0.8
GBM398-4c	3820	<10	4840	838	3680	520	>10000	0.92	61	56	4770	7.6	8.35	1.1	0.9
GBM398-4c	4000	<10	5070	868	3910	480	>10000	0.96	58	58	5000	6.2	7.81	1.1	0.8
GBM398-4c	3910	<10	5070	865	3960	510	>10000	0.96	57	58	4940	7.5	8.32	1.1	0.8
Target Range - Lower Bound	3500	<10	4590	805	3660	420	10550	0.82	53	50	4600	6.0	7.18	0.9	0.6
Upper Bound	4280	20	5620	986	4480	540	>10000	1.02	67	64	5630	7.8	8.80	1.5	1.0



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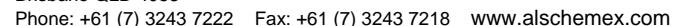
Sample Description	Method	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-GRA05	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Al2O3	CaO	Fe2O3	K2O	MgO	MnO2	Na2O	P2O5	SiO2	TiO2	Total	LOI	Cd	Co	Cr
	Units	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
	LOR	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.5	1	1
STANDARDS																
GBM999-5														<0.5	4	6
GBM999-5														<0.5	3	5
GBM999-5														<0.5	4	6
GBM999-5														<0.5	4	6
Target Range - Lower Bound														<0.5	2	4
Upper Bound														1.0	4	8
GEOMS-03														<0.5	12	118
GEOMS-03														<0.5	10	120
GEOMS-03														<0.5	10	109
GEOMS-03														<0.5	10	115
Target Range - Lower Bound														<0.5	10	101
Upper Bound														1.0	14	125
NCSDC79001		0.58	51.5	1.06	0.17	0.41	0.03	0.33	36.9	3.30	0.04	94.86				
NCSDC79001		0.58	51.4	1.05	0.17	0.42	0.03	0.33	36.9	3.29	0.04	94.77				
Target Range - Lower Bound		0.56	50.8	1.02	0.16	0.42	0.02	0.30	36.5	3.22	0.03					
Upper Bound		0.60	51.8	1.06	0.18	0.44	0.04	0.36	37.3	3.30	0.05					
NCSDC79003		4.13	19.40	3.09	2.67	7.10	0.03	0.14	6.13	38.5	0.47	81.81				
NCSDC79003		4.11	19.35	3.09	2.66	7.07	0.03	0.14	6.14	38.5	0.47	81.74				
NCSDC79003		4.14	19.40	3.09	2.67	7.10	0.03	0.13	6.14	38.6	0.48	81.93				
Target Range - Lower Bound		4.01	19.20	3.04	2.59	7.04	0.02	0.12	5.99	38.4	0.46					
Upper Bound		4.11	19.60	3.12	2.67	7.20	0.04	0.16	6.13	39.2	0.50					
SARM-39		4.21	9.71	9.32	1.06	26.1	0.20	0.60	1.46	33.4	1.58	99.60				
SARM-39		4.20	9.67	9.32	1.06	26.1	0.20	0.59	1.46	33.3	1.58	99.39				
SARM-39		4.21	9.69	9.32	1.06	26.2	0.20	0.60	1.46	33.3	1.57	99.54				
Target Range - Lower Bound		4.24	9.58	9.19	1.02	26.0	0.20	0.58	1.44	33.1	1.54					
Upper Bound		4.34	9.80	9.39	1.06	26.5	0.22	0.66	1.48	33.8	1.62					
SARM-45		26.4	0.77	12.55	3.14	3.46	0.12	0.81	0.08	49.5	1.83	100.05				
Target Range - Lower Bound		25.9	0.76	12.45	3.14	3.35	0.11	0.79	0.07	49.1	1.77					
Upper Bound		26.5	0.80	12.75	3.22	3.43	0.13	0.89	0.09	50.1	1.87					



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Sample Description	Method	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-GRA05	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Al2O3	CaO	Fe2O3	K2O	MgO	MnO2	Na2O	P2O5	SiO2	TiO2	Total	LOI	Cd	Co	Cr
	Units	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
	LOR	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.5	1	1
BLANKS																
BLANK														<0.5	1	2
BLANK														<0.5	2	1
BLANK														<0.5	1	2
BLANK														<0.5	2	1
BLANK														<0.5	1	<1
BLANK														<0.5	2	<1
BLANK														<0.5	2	<1
BLANK														<0.5	1	<1
BLANK		0.06	<0.01	0.17	<0.01	0.02	<0.01	0.04	<0.01	99.5	0.04	99.84				
BLANK		0.06	<0.01	0.17	<0.01	0.02	<0.01	0.04	<0.01	99.6	0.03	99.93				
BLANK		0.05	0.01	0.17	<0.01	0.02	<0.01	0.04	<0.01	99.7	0.03	100.05				
BLANK		0.06	<0.01	0.17	<0.01	0.02	<0.01	0.04	<0.01	99.7	0.03	100.05				
BLANK		0.05	<0.01	0.17	<0.01	0.03	<0.01	0.04	<0.01	99.7	0.04	100.05				
BLANK		0.05	<0.01	0.17	<0.01	0.02	<0.01	0.04	<0.01	99.5	0.04	99.83				
BLANK		0.05	<0.01	0.17	<0.01	0.03	<0.01	0.04	<0.01	99.3	0.03	99.63				
Target Range - Lower Bound		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			<0.5	<1	<1
Upper Bound		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02			1.0	2	2
DUPLICATES																
760046 - 760050		8.08	1.52	0.88	0.63	0.25	<0.01	0.19	3.44	81.0	0.38	99.85	3.31	<0.5	1	24
DUP		8.04	1.50	0.87	0.63	0.26	<0.01	0.19	3.41	81.2	0.38	99.90	3.30	<0.5	1	24
Target Range - Lower Bound		8.01	1.49	0.86	0.62	0.24	<0.01	0.18	3.40	80.7	0.37	97.37	3.21	<0.5	<1	22
Upper Bound		8.11	1.53	0.89	0.64	0.27	0.02	0.20	3.45	81.5	0.39	102.40	3.40	1.0	2	26
760131 - 760135																
DUP													3.06			
Target Range - Lower Bound													3.05			
Upper Bound													2.97			
													3.14			
760146 - 760150																
DUP		7.51	1.12	1.14	0.85	0.32	0.01	0.12	2.10	83.4	0.40	99.87		<0.5	8	28
Target Range - Lower Bound		7.44	1.08	1.13	0.84	0.31	<0.01	0.11	2.05	83.1	0.39	97.38		<0.5	7	27
Upper Bound		7.53	1.12	1.17	0.86	0.33	0.02	0.13	2.09	83.9	0.41	102.40		1.0	9	32



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Method Analyte Units LOR	ME-ICP61 Cu ppm 1	ME-ICP61 La ppm 10	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sr ppm 1	ME-ICP61 V ppm 1	ME-ICP61 Zn ppm 2	ME-MS62s As ppm 0.2	ME-MS62s Ce ppm 0.01	ME-MS62s Th ppm 0.2	ME-MS62s U ppm 0.1
Sample Description															
BLANKS															
BLANK	3	<10	<5	<1	<1	20	<2	<0.01	<1	<1	2	<0.2	<0.01	<0.2	<0.1
BLANK	1	<10	<5	<1	1	10	2	<0.01	1	<1	<2	0.5	<0.01	<0.2	<0.1
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BLANK	1	<10	<5	1	1	20	<2	0.01	1	<1	4	0.5	<0.01	<0.2	<0.1
BLANK	1	<10	<5	<1	<1	10	<2	<0.01	<1	<1	<2	<0.2	<0.01	<0.2	<0.1
BLANK	<1	<10	<5	<1	<1	<10	<2	<0.01	<1	<1	<2	<0.2	<0.01	<0.2	<0.1
BLANK	<1	<10	<5	<1	<1	<10	<2	<0.01	<1	<1	<2	<0.2	<0.01	<0.2	<0.1
BLANK	<1	<10	<5	<1	1	10	5	<0.01	<1	<1	<2	<0.2	<0.01	<0.2	<0.1
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound	<1	<10	<5	<1	<1	<10	<2	<0.01	<1	<1	<2	<0.2	<0.01	<0.2	<0.1
Upper Bound	2	20	10	2	2	20	4	0.02	2	2	4	0.4	0.02	0.4	0.2
DUPLICATES															
760046 - 760050	13	20	33	<1	2	13250	8	0.02	114	25	34	0.7	41.0	8.1	5.8
DUP	14	20	33	<1	3	>10000	8	0.02	115	25	35	0.7	39.7	8.2	5.8
Target Range - Lower Bound	12	<10	26	<1	<1	11050	6	<0.01	108	23	31	0.5	38.3	7.5	5.4
Upper Bound	15	30	40	2	4	>10000	10	0.03	121	27	38	0.9	42.4	8.8	6.2
760131 - 760135															
DUP															
Target Range - Lower Bound															
Upper Bound															
760146 - 760150															
DUP	15	20	68	<1	8	7790	5	0.01	202	36	44	0.9	46.5	9.5	2.4
	16	20	69	<1	8	7910	8	0.01	214	36	46	0.9	46.6	9.4	2.4
Target Range - Lower Bound	14	<10	60	<1	7	7450	4	<0.01	197	33	41	0.7	44.2	8.8	2.2
Upper Bound	17	30	77	2	9	8250	9	0.02	219	39	49	1.1	48.9	10.1	2.6

Sample Description	Method	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-XRF12p	ME-GRA05	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Al2O3	CaO	Fe2O3	K2O	MgO	MnO2	Na2O	P2O5	SiO2	TiO2	Total	LOI	Cd	Co	Cr
	Units	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
LOR		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.5	1	1
DUPLICATES																
760215 - 760219													1.85			
DUP													1.89			
Target Range - Lower Bound													1.81			
Upper Bound													1.93			
760220 - 760224																
DUP													<0.5	11	55	
													<0.5	10	55	
Target Range - Lower Bound													<0.5	9	51	
Upper Bound													1.0	12	59	
760260 - 760264																
DUP		9.30	0.41	3.75	1.02	0.39	0.01	0.12	1.59	79.2	0.50	100.00				
		9.27	0.41	3.74	1.01	0.39	0.01	0.12	1.63	79.0	0.49	99.83				
Target Range - Lower Bound		9.23	0.40	3.72	1.00	0.38	<0.01	0.11	1.59	78.7	0.48	97.41				
Upper Bound		9.34	0.42	3.77	1.03	0.40	0.02	0.13	1.63	79.5	0.51	102.40				
760300 - 760304																
DUP													3.16			
													3.18			
Target Range - Lower Bound													3.08			
Upper Bound													3.26			
760320 - 760324																
DUP													<0.5	5	19	
													<0.5	6	20	
Target Range - Lower Bound													<0.5	4	18	
Upper Bound													1.0	7	21	
760360 - 760363																
DUP		5.57	0.10	2.00	0.57	0.18	0.01	0.07	0.17	88.8	0.30	99.83				
		5.60	0.10	2.00	0.58	0.19	0.01	0.06	0.18	88.8	0.30	99.88				
Target Range - Lower Bound		5.55	0.09	1.98	0.56	0.17	<0.01	0.05	0.16	88.3	0.29	97.35				
Upper Bound		5.62	0.11	2.02	0.59	0.20	0.02	0.08	0.19	89.3	0.31	102.35				
760384 - 760388																
DUP													3.04			
													3.08			
Target Range - Lower Bound													2.97			
Upper Bound													3.15			
760394 - 760398																
DUP													<0.5	1	19	
													<0.5	1	19	
Target Range - Lower Bound													<0.5	<1	17	
Upper Bound													1.0	2	21	





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Page: 5 - B

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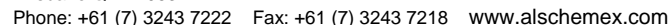
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Project: LUCY CREEK P

## QC CERTIFICATE OF ANALYSIS AS09049479

Sample Description	Method Analyte Units LOR	ME-ICP61 Cu ppm 1	ME-ICP61 La ppm 10	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sr ppm 1	ME-ICP61 V ppm 1	ME-ICP61 Zn ppm 2	ME-MS62s As ppm 0.2	ME-MS62s Ce ppm 0.01	ME-MS62s Th ppm 0.2	ME-MS62s U ppm 0.1
760215 - 760219 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
760220 - 760224 DUP Target Range - Lower Bound Upper Bound		48 47 44 51	10 10 <10 20	425 429 401 453	1 1 <1 2	35 35 32 38	6630 6770 6360 7050	16 18 14 20	0.09 0.09 0.08 0.10	321 327 307 341	94 94 88 100	152 152 142 162	9.0 9.4 8.5 9.9	27.9 28.2 26.6 29.5	6.0 6.0 5.5 6.5	9.0 9.2 8.5 9.7
760260 - 760264 DUP Target Range - Lower Bound Upper Bound																
760300 - 760304 DUP Target Range - Lower Bound Upper Bound																
760320 - 760324 DUP Target Range - Lower Bound Upper Bound		32 33 30 35	20 20 <10 30	346 357 329 374	1 1 <1 2	42 43 39 46	11450 >10000 10200 >10000	12 16 11 17	0.09 0.09 0.08 0.10	122 124 116 130	68 70 65 73	132 139 127 144	6.0 6.0 5.5 6.5	38.0 40.5 37.3 41.2	7.8 8.3 7.4 8.7	9.1 9.7 8.8 10.0
760360 - 760363 DUP Target Range - Lower Bound Upper Bound																
760384 - 760388 DUP Target Range - Lower Bound Upper Bound																
760394 - 760398 DUP Target Range - Lower Bound Upper Bound		10 9 8 11	20 20 <10 30	27 27 21 33	<1 <1 <1 2	6 6 5 7	1340 1300 1240 1400	10 10 8 13	0.01 0.01 <0.01 0.02	73 66 65 74	41 38 37 42	24 23 20 27	1.8 1.5 1.4 1.9	52.8 52.8 50.2 55.5	10.8 10.7 10.0 11.5	2.7 2.8 2.5 3.0



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Page: 6 - B

Total # Pages: 9 (A - B)

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## QC CERTIFICATE OF ANALYSIS AS09049479

Sample Description	Method Analyte Units LOR	ME-ICP61 Cu ppm 1	ME-ICP61 La ppm 10	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sr ppm 1	ME-ICP61 V ppm 1	ME-ICP61 Zn ppm 2	ME-MS62s As ppm 0.2	ME-MS62s Ce ppm 0.01	ME-MS62s Th ppm 0.2	ME-MS62s U ppm 0.1
760467 - 760471 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
760472 - 760476 DUP Target Range - Lower Bound Upper Bound																
760492 - 760496 DUP Target Range - Lower Bound Upper Bound		56 56 52 60	40 40 30 50	42 42 35 49	<1 <1 <1 2	10 10 9 12	12100 >10000 10500 >10000	28 28 25 31	0.03 0.03 0.02 0.04	295 297 280 312	90 89 84 95	48 48 44 52	2.5 2.8 2.3 3.0	112.5 116.0 108.5 120.0	18.0 18.3 17.0 19.3	17.2 17.0 16.1 18.1
760551 - 760555 DUP Target Range - Lower Bound Upper Bound																
760566 - 760570 DUP Target Range - Lower Bound Upper Bound		30 29 27 32	20 20 <10 30	46 47 39 54	<1 <1 <1 2	7 6 5 8	17100 >10000 12850 >10000	9 10 7 12	0.03 0.02 <0.01 0.04	94 98 90 102	30 30 28 33	73 75 68 80	1.7 1.3 1.2 1.8	46.8 47.4 44.7 49.5	9.5 9.7 8.9 10.3	3.7 3.8 3.5 4.0
760571 - 760575 DUP Target Range - Lower Bound Upper Bound																
760636 - 760640 DUP Target Range - Lower Bound Upper Bound																
760667 - 760671 DUP Target Range - Lower Bound Upper Bound		20 20 18 22	20 20 <10 30	124 121 111 134	<1 <1 <1 2	4 4 3 5	4910 4850 4630 5130	10 10 8 13	0.02 0.02 <0.01 0.03	55 54 51 58	50 51 47 54	26 26 23 29	1.7 1.8 1.5 2.0	49.9 49.1 47.0 52.0	9.8 9.7 9.1 10.4	8.7 8.6 8.1 9.2



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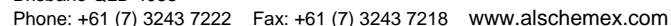
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Project: LUCY CREEK P

## QC CERTIFICATE OF ANALYSIS AS09049479

Method Analyte Units Sample Description	ME-XRF12p Al2O3 %	ME-XRF12p CaO %	ME-XRF12p Fe2O3 %	ME-XRF12p K2O %	ME-XRF12p MgO %	ME-XRF12p MnO2 %	ME-XRF12p Na2O %	ME-XRF12p P2O5 %	ME-XRF12p SiO2 %	ME-XRF12p TiO2 %	ME-XRF12p Total %	ME-GRA05 LOI %	ME-ICP61 Cd ppm	ME-ICP61 Co ppm	ME-ICP61 Cr ppm
LOR	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.5	1	1
DUPLICATES															
760684 - 760688	7.33	1.04	12.20	0.30	0.20	0.02	0.11	2.48	70.8	0.33	99.73				
DUP	7.30	1.04	12.20	0.30	0.20	0.02	0.11	2.47	70.6	0.32	99.46				
Target Range - Lower Bound	7.27	1.02	12.15	0.29	0.19	<0.01	0.10	2.45	70.3	0.31	97.10				
Upper Bound	7.36	1.06	12.25	0.31	0.21	0.03	0.12	2.50	71.1	0.34	102.10				
760719 - 760721												1.90			
DUP												1.97			
Target Range - Lower Bound												1.88			
Upper Bound												1.99			
760737 - 760741													0.5	4	25
DUP													0.6	5	28
Target Range - Lower Bound													<0.5	3	24
Upper Bound													1.0	6	29
760782 - 760786	8.36	1.02	1.04	0.56	0.19	<0.01	0.07	2.58	82.3	0.36	99.77				
DUP	8.34	1.03	1.06	0.56	0.19	<0.01	0.07	2.60	82.1	0.36	99.60				
Target Range - Lower Bound	8.30	1.01	1.03	0.55	0.18	<0.01	0.06	2.57	81.8	0.35	97.18				
Upper Bound	8.40	1.04	1.07	0.57	0.20	0.02	0.08	2.61	82.6	0.37	102.20				
760803 - 760807												3.15			
DUP												3.16			
Target Range - Lower Bound												3.07			
Upper Bound												3.24			
760839 - 760843													1.5	5	37
DUP													1.4	7	39
Target Range - Lower Bound													0.9	5	35
Upper Bound													2.0	7	41
760889 - 760893												2.78			
DUP												2.75			
Target Range - Lower Bound												2.69			
Upper Bound												2.84			
760899 - 760903	7.65	1.97	0.81	1.23	0.40	0.01	0.13	1.50	82.8	0.40	99.48				
DUP	7.61	1.96	0.80	1.22	0.40	<0.01	0.12	1.50	83.1	0.39	99.64				
Target Range - Lower Bound	7.58	1.95	0.79	1.21	0.39	<0.01	0.11	1.48	82.5	0.38	97.06				
Upper Bound	7.68	1.98	0.82	1.24	0.41	0.02	0.14	1.52	83.4	0.41	102.05				



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QC CERTIFICATE OF ANALYSIS AS09049479

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-MS62s	ME-MS62s	ME-MS62s	ME-MS62s
	Analyte	Cu	La	Mn	Mo	Ni	P	Pb	S	Sr	V	Zn	As	Ce	Th	U
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	10	5	1	1	10	2	0.01	1	1	2	0.2	0.01	0.2	0.1
760684 - 760688 DUP Target Range - Lower Bound Upper Bound	DUPLICATES															
760719 - 760721 DUP Target Range - Lower Bound Upper Bound																
760737 - 760741 DUP Target Range - Lower Bound Upper Bound	9 10 8 11	20 20 <10 30	60 64 54 70	<1 <1 <1 2	12 12 10 14	15650 >10000 12150 >10000	9 12 8 13	0.02 0.02 <0.01 0.03	53 56 51 58	38 42 37 43	59 65 57 67	1.7 1.1 1.1 1.7	50.4 51.0 48.2 53.2	9.8 10.0 9.2 10.6	2.4 2.5 2.2 2.7	
760782 - 760786 DUP Target Range - Lower Bound Upper Bound																
760803 - 760807 DUP Target Range - Lower Bound Upper Bound																
760839 - 760843 DUP Target Range - Lower Bound Upper Bound	26 26 24 28	20 20 <10 30	158 164 148 174	<1 1 <1 2	14 14 12 16	>50000 >10000 28500 >10000	117 117 109 125	0.09 0.09 0.08 0.10	192 205 188 209	64 67 61 70	132 134 124 142	1.0 1.2 0.8 1.4	36.4 37.2 35.0 38.7	5.1 5.4 4.8 5.7	12.3 12.3 11.6 13.0	
760889 - 760893 DUP Target Range - Lower Bound Upper Bound																
760899 - 760903 DUP Target Range - Lower Bound Upper Bound																



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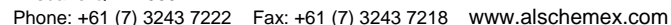
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## QC CERTIFICATE OF ANALYSIS AS09049479

Method Analyte Units Sample Description	ME-XRF12p Al2O3 %	ME-XRF12p CaO %	ME-XRF12p Fe2O3 %	ME-XRF12p K2O %	ME-XRF12p MgO %	ME-XRF12p MnO2 %	ME-XRF12p Na2O %	ME-XRF12p P2O5 %	ME-XRF12p SiO2 %	ME-XRF12p TiO2 %	ME-XRF12p Total %	ME-GRA05 LOI %	ME-ICP61 Cd ppm	ME-ICP61 Co ppm	ME-ICP61 Cr ppm
LOR	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.5	1	1
760914 - 760918 DUP Target Range - Lower Bound Upper Bound															
DUPLICATES															
													0.5	8	30
													0.5	8	32
													<0.5	7	28
													1.0	9	34
760974 - 760978 DUP Target Range - Lower Bound Upper Bound															
													2.66		
													2.69		
													2.60		
													2.75		
760999 - 761003 DUP Target Range - Lower Bound Upper Bound															
													3.30	30.3	2.00
													3.28	30.5	1.97
													3.26	30.2	1.97
													3.32	30.6	2.00
761014 - 761016 DUP Target Range - Lower Bound Upper Bound															
													0.34	0.15	0.04
													0.33	0.14	0.04
													0.32	0.13	0.03
													0.35	0.16	0.05
761113 - 761117 DUP Target Range - Lower Bound Upper Bound															
													22.4	37.2	0.15
													22.6	37.0	0.15
													22.4	36.9	0.14
													22.6	37.3	0.16
761192 - 761196 DUP Target Range - Lower Bound Upper Bound															
													98.14		
													98.29		
													95.75		
													100.70		
761248 - 761252 DUP Target Range - Lower Bound Upper Bound															
													8.23	1.34	7.18
													8.19	1.32	7.14
													8.16	1.31	7.11
													8.26	1.35	7.21



Project: LUCY CREEK P

## QC CERTIFICATE OF ANALYSIS AS09049479

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-MS62s	ME-MS62s	ME-MS62s	ME-MS62s
	Analyte	Cu	La	Mn	Mo	Ni	P	Pb	S	Sr	V	Zn	As	Ce	Th	U
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	10	5	1	1	10	2	0.01	1	1	2	0.2	0.01	0.2	0.1
		DUPLICATES														
760914 - 760918		54	10	117	<1	47	23400	36	0.02	475	76	115	5.4	20.8	5.2	45.0
DUP		59	10	116	1	53	>10000	38	0.02	499	86	129	6.2	21.6	5.2	46.7
Target Range - Lower Bound		53	<10	106	<1	47	15850	33	<0.01	462	76	114	5.3	20.1	4.7	43.5
Upper Bound		60	20	127	2	54	>10000	41	0.03	512	86	130	6.3	22.3	5.7	48.2
760974 - 760978																
DUP																
Target Range - Lower Bound																
Upper Bound																
760999 - 761003																
DUP																
Target Range - Lower Bound																
Upper Bound																
761014 - 761016		14	30	312	1	32	2360	9	0.01	59	44	79	2.8	98.3	12.4	5.1
DUP		15	30	338	<1	33	2590	10	0.01	67	47	83	3.2	102.0	12.5	5.5
Target Range - Lower Bound		13	20	304	<1	30	2340	7	<0.01	59	42	75	2.7	95.1	11.6	4.9
Upper Bound		16	40	346	2	35	2610	12	0.02	67	49	87	3.4	105.0	13.3	5.7
761113 - 761117																
DUP																
Target Range - Lower Bound																
Upper Bound																
761192 - 761196		7	20	43	1	9	1810	10	0.03	119	31	18	2.2	54.1	9.9	7.5
DUP		6	20	45	1	9	1870	10	0.03	118	31	18	2.3	53.8	10.1	7.5
Target Range - Lower Bound		5	<10	37	<1	8	1740	8	0.02	112	28	15	1.9	51.2	9.3	7.0
Upper Bound		8	30	51	2	10	1940	13	0.04	125	34	21	2.6	56.7	10.7	8.0
761218 - 761222																
DUP																
Target Range - Lower Bound																
Upper Bound																
761248 - 761252																
DUP																
Target Range - Lower Bound																
Upper Bound																



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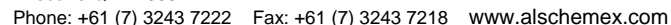
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## QC CERTIFICATE OF ANALYSIS AS09049479

Method Analyte Units Sample Description	ME-XRF12p Al2O3 %	ME-XRF12p CaO %	ME-XRF12p Fe2O3 %	ME-XRF12p K2O %	ME-XRF12p MgO %	ME-XRF12p MnO2 %	ME-XRF12p Na2O %	ME-XRF12p P2O5 %	ME-XRF12p SiO2 %	ME-XRF12p TiO2 %	ME-XRF12p Total %	ME-GRA05 LOI %	ME-ICP61 Cd ppm	ME-ICP61 Co ppm	ME-ICP61 Cr ppm
LOR	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.5	1	1
<p align="center"><b>DUPLICATES</b></p>															
761290 - 761294 DUP													<0.5	3	12
Target Range - Lower Bound													<0.5	3	13
Upper Bound													<0.5	2	11
													1.0	4	14
761316 - 761320 DUP	8.36	0.50	8.12	0.52	0.40	0.02	0.21	0.85	75.4	0.35	99.30				
Target Range - Lower Bound	8.42	0.52	8.07	0.52	0.40	0.02	0.21	0.83	75.4	0.35	99.30				
Upper Bound	8.34	0.50	8.04	0.51	0.39	<0.01	0.19	0.83	75.0	0.34	96.81				
	8.44	0.52	8.15	0.53	0.41	0.03	0.23	0.85	75.8	0.36	101.80				
761331 - 761335 DUP												4.11			
Target Range - Lower Bound												4.12			
Upper Bound												4.00			
												4.23			
761383 - 761387 DUP													<0.5	9	42
Target Range - Lower Bound													<0.5	9	40
Upper Bound													<0.5	8	38
													1.0	10	44
761429 - 761432 DUP												2.92			
Target Range - Lower Bound												2.94			
Upper Bound												2.85			
												3.01			
761433 - 761436 DUP	8.62	0.58	3.85	1.09	0.47	0.03	0.23	0.83	79.7	0.37	99.52				
Target Range - Lower Bound	8.65	0.58	3.88	1.10	0.49	0.03	0.24	0.83	79.9	0.38	99.84				
Upper Bound	8.58	0.57	3.84	1.08	0.47	0.02	0.22	0.82	79.4	0.36	97.18				
	8.69	0.59	3.89	1.11	0.49	0.04	0.25	0.84	80.2	0.39	102.20				
761709 - 761713 DUP	6.12	2.74	0.99	0.57	0.25	0.02	0.06	3.56	82.4	0.23	99.37	2.31			
Target Range - Lower Bound	6.11	2.75	0.98	0.57	0.24	0.02	0.07	3.56	82.3	0.22	99.25	2.35			
Upper Bound	6.07	2.72	0.97	0.56	0.23	<0.01	0.05	3.53	81.9	0.21	96.82	2.26			
	6.16	2.77	1.00	0.58	0.26	0.03	0.08	3.59	82.8	0.24	101.80	2.40			





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QC CERTIFICATE OF ANALYSIS AS09049479

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-MS62s	ME-MS62s	ME-MS62s	ME-MS62s
	Analyte	Cu	La	Mn	Mo	Ni	P	Pb	S	Sr	V	Zn	As	Ce	Th	U
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	10	5	1	1	10	2	0.01	1	1	2	0.2	0.01	0.2	0.1
<b>DUPLICATES</b>																
761290 - 761294		10	20	88	<1	6	2380	9	0.21	192	20	14	2.1	52.8	10.4	5.9
DUP		10	20	91	<1	6	2450	11	0.21	199	20	18	2.1	54.4	10.7	6.1
Target Range - Lower Bound		9	<10	80	<1	5	2280	8	0.19	185	18	13	1.8	50.9	9.8	5.6
Upper Bound		12	30	99	2	7	2550	13	0.23	206	22	19	2.4	56.3	11.3	6.4
761316 - 761320																
DUP																
Target Range - Lower Bound																
Upper Bound																
761331 - 761335																
DUP																
Target Range - Lower Bound																
Upper Bound																
761383 - 761387		39	20	97	<1	52	7540	15	0.12	150	88	146	5.5	48.4	9.3	6.3
DUP		40	20	94	<1	54	7730	14	0.12	152	89	148	5.9	49.0	9.5	6.4
Target Range - Lower Bound		37	<10	86	<1	49	7240	12	0.10	142	83	138	5.2	46.3	8.7	5.9
Upper Bound		42	30	105	2	57	8030	17	0.14	160	94	156	6.2	51.1	10.1	6.8
761429 - 761432																
DUP																
Target Range - Lower Bound																
Upper Bound																
761433 - 761436																
DUP																
Target Range - Lower Bound																
Upper Bound																
761709 - 761713																
DUP																
Target Range - Lower Bound																
Upper Bound																