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EXCELLENCE IN ANALYTICAL CHEMISTRY

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

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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CERTIFICATE OF ANALYSIS AS09049479

Sample Description	Method Analyte Units LOR	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-XRF12p	ME-XRF12p	ME-XRF12p
		Al2O3	CaO	Fe2O3	K2O	MgO	MnO2	Na2O	P2O5	SiO2	TiO2	Total	LOI	Cd	Co	Cr
		%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
		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
760001 - 760005		6.38	1.70	4.91	0.36	0.17	0.05	0.16	3.76	79.1	0.24	100.30	3.19	0.7	57	36
760006 - 760010		6.55	4.58	6.58	0.40	0.13	0.03	0.12	4.92	73.0	0.30	100.20	3.37	0.6	23	25
760011 - 760015		6.34	1.74	6.99	0.36	0.12	0.02	0.15	2.42	78.2	0.28	100.10	3.30	<0.5	16	20
760016 - 760020		7.49	0.23	3.32	0.51	0.19	<0.01	0.11	0.58	84.4	0.34	100.25	2.94	<0.5	4	23
760021 - 760025		8.60	0.16	1.42	0.62	0.21	<0.01	0.10	0.34	85.2	0.41	100.15	2.98	<0.5	3	26
760026 - 760030		7.78	0.17	1.02	0.57	0.19	0.01	0.09	0.42	86.5	0.40	99.85	2.63	<0.5	4	21
760031 - 760035		8.30	0.23	1.00	0.81	0.28	<0.01	0.08	0.52	85.2	0.45	99.87	2.86	<0.5	3	21
760036 - 760040		11.15	0.37	1.60	1.25	0.46	0.01	0.09	1.00	79.6	0.57	100.05	3.70	<0.5	3	44
760041 - 760045		7.21	1.41	2.78	0.49	0.23	0.01	0.19	2.45	81.3	0.38	100.10	3.31	<0.5	2	36
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
760051 - 760055		7.36	5.62	4.88	0.71	0.26	0.03	0.17	6.35	70.6	0.36	99.89	3.34	1.1	15	53
760056 - 760060		6.12	11.90	2.84	0.59	0.22	0.06	0.22	11.70	62.3	0.28	99.54	3.14	2.4	13	36
760061 - 760065		9.55	6.62	5.08	1.49	0.53	0.02	0.18	6.19	65.5	0.45	99.59	3.76	1.0	7	54
760066 - 760070		8.26	0.89	2.26	3.06	0.43	0.01	0.16	0.83	81.6	0.38	99.86	1.90	<0.5	6	25
760071 - 760075		2.80	0.03	1.08	0.82	0.16	<0.01	0.06	0.03	94.6	0.16	100.35	0.61	<0.5	1	14
760076 - 760080		4.00	0.07	1.80	1.58	0.31	0.01	0.07	0.07	91.2	0.23	100.05	0.71	<0.5	4	17
760081 - 760085		6.11	5.01	8.35	0.44	0.28	0.02	0.11	4.48	70.7	0.31	99.72	3.74	0.6	16	30
760086 - 760090		6.94	2.26	5.57	0.51	0.20	0.01	0.13	2.95	77.2	0.32	99.60	3.30	<0.5	8	18
760091 - 760095		7.35	1.66	3.93	0.61	0.24	0.01	0.12	2.21	80.3	0.34	100.00	3.05	<0.5	4	24
760096 - 760100		7.01	2.93	3.41	0.62	0.24	0.01	0.13	2.68	79.6	0.35	99.97	2.84	0.7	7	22
760101 - 760105		6.91	4.97	1.70	0.84	0.35	0.01	0.12	3.90	78.3	0.37	100.05	2.46	0.9	7	26
760106 - 760110		5.20	23.4	1.14	0.72	0.31	0.07	0.11	17.60	47.6	0.29	98.89	2.31	3.2	28	24
760111 - 760115		6.37	18.10	2.22	0.95	0.39	0.04	0.12	13.75	54.0	0.34	99.08	2.61	1.9	23	27
760116 - 760120		10.30	0.21	1.82	1.73	0.64	<0.01	0.14	0.21	81.3	0.49	100.10	3.17	<0.5	2	36
760121 - 760125		8.73	2.51	7.43	0.35	0.18	0.01	0.16	5.72	69.6	0.30	100.00	4.76	0.8	6	39
760126 - 760130		6.89	3.19	6.35	0.42	0.15	0.01	0.14	4.74	73.8	0.32	99.87	3.65	0.6	4	33
760131 - 760135		6.51	1.78	4.32	0.60	0.21	0.01	0.14	3.60	79.4	0.34	100.20	3.06	<0.5	2	39
760136 - 760140		6.04	2.35	13.95	0.56	0.19	0.02	0.11	3.76	68.3	0.33	99.82	4.02	0.6	8	40
760141 - 760145		6.51	2.95	3.76	0.53	0.17	0.01	0.15	4.59	78.0	0.34	100.05	2.87	0.5	8	30
760146 - 760150		7.51	1.12	1.14	0.85	0.32	0.01	0.12	2.10	83.4	0.40	99.87	2.77	<0.5	8	28
760151 - 760155		3.40	35.4	0.95	0.40	0.18	0.03	0.06	26.0	29.0	0.18	98.19	2.42	2.5	3	22
760156 - 760160		4.30	23.2	1.76	0.65	0.27	0.04	0.07	17.30	48.7	0.24	98.95	2.24	1.7	20	23
760161 - 760164		11.15	1.86	2.78	1.81	0.65	0.01	0.10	1.46	76.1	0.58	100.10	3.51	<0.5	3	44
760165 - 760169		6.09	3.19	3.57	0.47	0.33	0.01	0.15	3.99	78.4	0.21	99.90	3.19	<0.5	3	25
760170 - 760174		6.74	2.74	7.85	0.34	0.21	0.02	0.25	4.76	72.3	0.19	100.25	4.22	<0.5	6	29
760175 - 760179		11.10	2.06	5.10	0.28	0.12	0.01	0.14	5.95	69.3	0.22	100.50	5.71	<0.5	7	19
760180 - 760184		11.10	0.69	2.90	0.31	0.11	0.01	0.17	3.48	75.8	0.28	100.10	4.96	<0.5	12	23
760185 - 760189		8.71	0.25	2.38	0.44	0.16	<0.01	0.10	0.83	83.4	0.35	100.15	3.42	<0.5	3	24
760190 - 760194		6.96	0.23	5.58	0.40	0.17	0.01	0.10	0.95	82.0	0.31	99.97	3.15	<0.5	4	33
760195 - 760199		7.24	0.23	3.15	0.50	0.18	<0.01	0.10	0.83	84.5	0.36	100.15	2.92	<0.5	3	31



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Project: LUCY CREEK P

CERTIFICATE OF ANALYSIS AS09049479

Sample Description	Method Analyte Units LOR	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
		Cu	La	Mn	Mo	Ni	P	Pb	S	Sr	V	Zn	As	Ce	Th	U
		ppm 1	ppm 10	ppm 5	ppm 1	ppm 1	ppm 10	ppm 2	% 0.01	ppm 1	ppm 1	ppm 2	ppm 0.2	ppm 0.01	ppm 0.2	ppm 0.1
760001 - 760005		40	10	348	1	34	15150	19	0.07	265	66	92	5.8	29.4	6.0	16.2
760006 - 760010		40	10	182	<1	51	19250	8	0.03	115	43	299	2.1	40.1	8.2	3.6
760011 - 760015		22	20	125	<1	50	9880	7	0.02	82	37	199	1.1	39.3	8.1	2.0
760016 - 760020		34	20	36	<1	15	2380	5	0.01	100	40	42	3.7	47.9	9.6	2.6
760021 - 760025		20	20	40	1	6	1400	10	0.01	74	47	19	1.5	55.1	10.9	2.9
760026 - 760030		20	20	45	<1	6	1740	10	0.01	72	43	13	1.2	52.0	10.1	3.1
760031 - 760035		40	20	36	<1	7	2060	7	0.01	102	52	16	1.4	54.4	10.3	5.8
760036 - 760040		121	40	64	<1	19	3460	47	0.01	270	67	30	2.3	116.5	18.3	17.4
760041 - 760045		26	20	47	<1	6	9560	6	0.10	73	60	33	3.1	46.3	9.1	7.2
760046 - 760050		13	20	33	<1	2	13250	8	0.02	114	25	34	0.7	41.0	8.1	5.8
760051 - 760055		51	20	176	<1	20	26200	18	0.02	123	83	82	3.1	48.8	9.6	15.8
760056 - 760060		36	20	329	1	18	49100	28	0.03	305	50	89	2.5	49.9	8.5	16.4
760061 - 760065		84	30	110	1	26	23800	20	0.02	281	80	109	2.1	76.0	13.7	9.8
760066 - 760070		7	20	91	<1	12	3620	9	0.01	61	37	30	0.7	52.2	11.0	3.0
760071 - 760075		3	10	32	1	6	160	<2	<0.01	17	16	6	0.6	24.5	4.8	1.1
760076 - 760080		3	20	46	<1	9	280	3	<0.01	27	23	9	0.2	42.5	6.9	1.1
760081 - 760085		27	20	153	<1	87	19350	9	0.03	122	84	193	7.9	43.7	8.6	5.6
760086 - 760090		9	20	90	<1	51	12150	9	0.02	142	40	166	2.7	46.0	9.4	2.5
760091 - 760095		7	20	59	<1	32	9050	7	0.02	168	42	116	1.3	47.1	9.4	2.4
760096 - 760100		11	20	84	<1	45	10450	6	0.01	69	46	134	2.5	42.6	8.4	2.4
760101 - 760105		18	20	70	<1	18	15250	7	0.02	49	39	78	1.9	42.3	8.3	2.7
760106 - 760110		50	20	429	1	19	>50000	20	0.03	57	34	135	1.3	45.2	7.8	5.4
760111 - 760115		79	20	234	<1	27	>50000	27	0.03	95	47	146	2.4	74.6	12.1	6.9
760116 - 760120		25	30	36	<1	15	960	17	0.01	42	53	42	1.0	67.8	14.6	4.4
760121 - 760125		47	20	93	<1	37	22600	8	0.04	247	83	141	6.1	38.7	7.9	26.5
760126 - 760130		17	20	58	<1	40	19700	6	0.03	211	55	201	2.0	42.8	8.8	4.3
760131 - 760135		12	20	45	<1	25	14800	6	0.02	291	52	118	1.2	46.8	9.6	3.1
760136 - 760140		17	20	129	<1	53	15950	4	0.01	150	99	282	2.9	44.6	8.9	2.8
760141 - 760145		17	20	93	<1	25	18050	12	0.01	191	41	104	2.6	40.5	8.0	2.5
760146 - 760150		15	20	68	<1	8	7790	5	0.01	202	36	44	0.9	46.5	9.5	2.4
760151 - 760155		88	10	169	<1	7	>50000	13	0.03	131	34	161	1.0	28.8	5.4	7.4
760156 - 760160		77	10	213	1	18	>50000	50	0.02	88	45	138	1.5	49.2	8.3	5.8
760161 - 760164		21	30	56	1	19	5560	14	0.01	43	75	57	1.3	74.5	15.1	4.7
760165 - 760169		125	10	52	1	8	17550	54	0.07	767	38	51	3.0	26.5	5.4	6.8
760170 - 760174		119	10	121	<1	31	20300	32	0.21	524	48	138	5.7	25.9	5.3	11.8
760175 - 760179		125	10	85	1	14	24400	14	0.18	299	31	78	3.3	33.6	6.9	16.1
760180 - 760184		144	20	43	<1	12	14100	9	0.05	543	36	81	1.4	38.2	7.9	16.7
760185 - 760189		23	20	29	<1	9	3350	9	0.01	130	42	19	1.7	45.1	9.5	10.9
760190 - 760194		26	20	53	<1	13	3750	7	0.01	164	64	23	3.1	43.7	8.6	14.8
760195 - 760199		18	20	27	<1	7	3270	5	0.01	156	44	16	1.5	43.4	9.1	9.4



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Sample Description	Method Analyte Units LOR	PUL-QC Pass75um % 0.01
760001 - 760005 760006 - 760010 760011 - 760015 760016 - 760020 760021 - 760025		
760026 - 760030 760031 - 760035 760036 - 760040 760041 - 760045 760046 - 760050		90.7
760051 - 760055 760056 - 760060 760061 - 760065 760066 - 760070 760071 - 760075		
760076 - 760080 760081 - 760085 760086 - 760090 760091 - 760095 760096 - 760100		
760101 - 760105 760106 - 760110 760111 - 760115 760116 - 760120 760121 - 760125		
760126 - 760130 760131 - 760135 760136 - 760140 760141 - 760145 760146 - 760150		
760151 - 760155 760156 - 760160 760161 - 760164 760165 - 760169 760170 - 760174		
760175 - 760179 760180 - 760184 760185 - 760189 760190 - 760194 760195 - 760199		



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		Al2O3	CaO	Fe2O3	K2O	MgO	MnO2	Na2O	P2O5	SiO2	TiO2	Total	LOI	Cd	Co	Cr
		%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
		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
760200 - 760204		6.84	0.24	4.04	0.55	0.20	<0.01	0.09	0.84	83.8	0.36	100.00	2.93	<0.5	2	33
760205 - 760209		8.34	0.21	3.38	1.00	0.39	<0.01	0.09	0.86	81.8	0.46	100.05	3.21	<0.5	3	49
760210 - 760214		10.30	0.05	1.74	1.10	0.36	<0.01	0.09	0.19	82.1	0.57	100.00	3.38	<0.5	3	32
760215 - 760219		5.99	0.05	1.51	0.86	0.26	<0.01	0.13	0.07	88.7	0.32	99.80	1.85	<0.5	2	21
760220 - 760224		4.81	1.85	12.20	0.32	0.25	0.07	0.12	1.62	73.9	0.21	99.82	4.16	<0.5	11	55
760225 - 760229		6.65	2.14	17.75	0.22	0.18	0.07	0.14	4.26	62.3	0.18	100.10	5.59	<0.5	12	44
760230 - 760234		7.84	1.98	16.70	0.32	0.15	0.05	0.10	4.60	61.6	0.25	99.71	5.67	<0.5	7	18
760235 - 760239		8.02	1.04	13.95	0.33	0.16	0.02	0.09	2.65	68.0	0.28	99.78	4.98	<0.5	3	64
760240 - 760244		8.14	0.22	1.92	0.39	0.13	<0.01	0.09	0.61	85.2	0.33	100.25	3.09	<0.5	1	20
760245 - 760249		8.47	0.29	1.72	0.49	0.17	<0.01	0.09	0.62	84.7	0.37	100.15	3.10	<0.5	2	22
760250 - 760254		7.99	0.24	1.49	0.51	0.18	<0.01	0.09	0.64	85.3	0.38	99.89	2.95	<0.5	2	23
760255 - 760259		7.58	0.31	2.07	0.70	0.26	<0.01	0.14	1.20	84.3	0.39	99.91	2.86	<0.5	2	26
760260 - 760264		9.30	0.41	3.75	1.02	0.39	0.01	0.12	1.59	79.2	0.50	100.00	3.49	<0.5	3	55
760265 - 760269		8.67	0.10	1.30	0.87	0.29	<0.01	0.08	0.22	85.3	0.46	100.20	2.84	<0.5	3	27
760270 - 760274		5.96	2.67	6.43	0.79	0.41	<0.01	0.12	2.16	75.9	0.27	99.66	4.15	<0.5	1	43
760275 - 760279		5.82	1.56	25.1	0.31	0.25	0.05	0.12	3.29	56.6	0.20	100.25	6.19	<0.5	13	56
760280 - 760284		6.74	1.35	20.6	0.25	0.21	0.11	0.08	3.29	60.9	0.19	99.59	5.55	<0.5	24	44
760285 - 760289		8.74	1.90	4.72	0.30	0.10	0.01	0.09	4.79	74.7	0.28	100.10	4.24	<0.5	4	23
760290 - 760294		8.16	0.49	1.58	0.44	0.15	<0.01	0.10	1.22	84.5	0.34	100.15	3.06	<0.5	1	20
760295 - 760299		8.75	0.35	0.85	0.59	0.20	<0.01	0.11	1.04	84.5	0.39	99.96	3.08	<0.5	2	21
760300 - 760304		7.92	0.32	3.48	0.56	0.19	0.01	0.12	1.18	82.8	0.39	100.25	3.16	<0.5	4	30
760305 - 760309		5.05	0.65	1.70	0.38	0.11	0.01	0.19	2.69	86.4	0.22	100.00	2.32	<0.5	1	30
760310 - 76																



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Project: LUCY CREEK P

CERTIFICATE OF ANALYSIS AS09049479

Sample Description	Method Analyte Units LOR	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
		Cu	La	Mn	Mo	Ni	P	Pb	S	Sr	V	Zn	As	Ce	Th	U
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	10	5	1	1	10	2	0.01	1	1	2	0.2	0.01	0.2	0.1
760200 - 760204		21	20	23	<1	7	3370	5	0.01	193	42	17	2.4	41.3	8.5	5.7
760205 - 760209		28	30	42	1	10	3460	43	0.01	368	89	20	2.2	87.9	14.7	11.0
760210 - 760214		10	30	29	1	6	790	13	0.01	109	62	7	1.5	81.9	15.5	4.8
760215 - 760219		3	20	27	1	5	280	3	0.01	37	38	5	1.2	43.9	9.6	3.1
760220 - 760224		48	10	425	1	35	6630	16	0.09	321	94	152	9.0	27.9	6.0	9.0
760225 - 760229		31	10	418	1	60	17800	12	0.21	465	68	153	15.7	29.5	7.0	12.6
760230 - 760234		27	10	313	<1	42	18350	6	0.14	167	46	113	5.0	34.7	7.5	7.6
760235 - 760239		31	20	163	<1	15	10950	8	0.05	167	129	49	3.7	40.8	8.6	12.0
760240 - 760244		7	20	33	<1	3	2530	6	0.02	116	37	10	0.5	43.7	9.2	5.7
760245 - 760249		7	20	23	<1	4	2580	9	0.01	122	40	10	1.7	48.1	10.1	5.3
760250 - 760254		9	20	22	<1	4	2700	7	0.01	178	36	11	1.2	46.3	9.4	5.3
760255 - 760259		16	20	20	<1	5	4640	8	0.01	172	38	13	1.8	44.9	9.2	5.2
760260 - 760264		29	30	50	<1	9	6460	35	0.01	552	90	20	2.1	100.5	15.6	14.9
760265 - 760269		7	30	29	<1	4	920	15	0.01	110	47	6	0.9	82.2	13.8	3.9
760270 - 760274		104	30	40	<1	6	8770	366	0.24	733	87	43	6.1	54.6	9.5	12.5
760275 - 760279		90	10	350	1	85	13650	25	0.23	622	140	178	17.5	31.3	7.5	18.6
760280 - 760284		37	10	694	<1	104	14150	8	0.09	220	112	198	19.5	26.8	5.6	17.8
760285 - 760289		16	20	89	<1	13	20000	6	0.05	191	44	77	2.3	40.5	8.6	14.5
760290 - 760294		7	20	33	<1	5	4900	7	0.01	85	28	22	0.6	41.3	8.9	4.8
760295 - 760299		6	20	31	<1	5	4060	5	0.01	124	27	18	0.5	50.1	10.3	5.2
760300 - 760304		31	20	39	<1	19	4810	8	0.01	129	52	69	2.2	46.6	9.5	5.6
760305 - 760309		36	20	43	<1	7	10900	22	0.02	664	29	28	1.6	36.6	7.0	12.9
760310 - 760314		197	40	66	<1	3	8990	602	0.42	749	92	29	4.1	59.1	9.2	13.4
760315 - 760319		78	10	162	<1	7	12550	32	0.09	361	45	46	5.5	21.3	4.9	12.7
760320 - 760324		32	20	346	1	42	11450	12	0.09	122	68	132	6.0	38.0	7.8	9.1
760325 - 760329		17	20	247	<1	25	5150	9	0.03	45	61	54	4.1	39.3	8.0	6.6
760330 - 760334		7	20	64	<1	4	5070	8	0.03	57	34	20	0.8	46.5	9.6	3.9
760335 - 760339		17	20	72	<1	7	5150	7	0.02	55	124	32	2.3	47.5	9.7	10.8
760340 - 760344		8	20	35	<1	5	4230	8	0.01	78	38	20	0.9	49.9	10.1	7.5
760345 - 760349		21	20	32	<1	9	6560	6	0.01	111	57	25	1.9	47.6	9.8	7.8
760350 - 760354		53	30	35	1	15	13000	90	0.02	405	61	60	5.7	69.1	12.6	15.9
760355 - 760359		24	30	32	<1	6	7040	26	0.01	448	73	31	2.1	85.2	15.4	10.3
760360 - 760363		8	20	55	<1	4	730	10	0.01	59	40	5	1.9	63.6	9.7	4.5
760364 - 760368		102	10	38	<1	4	6060	36	0.40	331	57	32	3.2	33.9	6.6	7.6
760369 - 760373		203	10	326	<1	37	16600	15	0.04	154	97	109	5.8	22.8	4.2	13.7
760374 - 760378		8	20	60	<1	3	23900	11	0.04	139	24	35	1.2	41.9	8.8	7.3
760379 - 760383		11	20	39	<1	5	10400	10	0.02	114	70	48	1.8	46.6	9.8	5.5
760384 - 760388		12	20	37	<1	7	3560	10	0.01	100	41	55	1.9	50.3	10.1	2.8
760389 - 760393		13	20	36	<1	6	1600	10	0.01	65	53	44	2.7	48.9	9.9	2.7
760394 - 760398		10	20	27	<1	6	1340	10	0.01	73	41	24	1.8	52.8	10.8	2.7



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CERTIFICATE OF ANALYSIS AS09049479

Sample Description	Method Analyte Units LOR	PUL-QC Pass75um % 0.01
760200 - 760204 760205 - 760209 760210 - 760214 760215 - 760219 760220 - 760224		
760225 - 760229 760230 - 760234 760235 - 760239 760240 - 760244 760245 - 760249		89.1
760250 - 760254 760255 - 760259 760260 - 760264 760265 - 760269 760270 - 760274		
760275 - 760279 760280 - 760284 760285 - 760289 760290 - 760294 760295 - 760299		
760300 - 760304 760305 - 760309 760310 - 760314 760315 - 760319 760320 - 760324		
760325 - 760329 760330 - 760334 760335 - 760339 760340 - 760344 760345 - 760349		
760350 - 760354 760355 - 760359 760360 - 760363 760364 - 760368 760369 - 760373		
760374 - 760378 760379 - 760383 760384 - 760388 760389 - 760393 760394 - 760398		



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CERTIFICATE OF ANALYSIS AS09049479

Sample Description	Method Analyte Units LOR	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-XRF12p	ME-XRF12p	ME-XRF12p
		Al2O3	CaO	Fe2O3	K2O	MgO	MnO2	Na2O	P2O5	SiO2	TiO2	Total	LOI	Cd	Co	Cr
		%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
		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
760399 - 760403		8.74	0.21	4.32	0.90	0.33	0.02	0.09	0.58	81.0	0.48	99.98	3.16	<0.5	3	39
760404 - 760408		9.70	0.25	2.07	1.20	0.42	<0.01	0.10	0.49	81.7	0.50	99.87	3.25	<0.5	3	36
760409 - 760413		5.79	0.09	3.03	0.55	0.20	0.01	0.07	0.26	87.4	0.25	100.05	2.25	<0.5	6	24
760414 - 760418		5.50	1.44	3.58	0.34	0.23	0.01	0.17	2.77	82.7	0.19	100.05	2.82	<0.5	2	32
760419 - 760423		8.21	1.16	12.55	0.21	0.11	0.03	0.11	4.33	67.0	0.20	99.74	5.58	<0.5	5	45
760424 - 760728		9.65	1.68	2.57	0.32	0.09	<0.01	0.13	4.88	75.9	0.31	100.15	4.42	<0.5	2	16
760429 - 760433		8.49	1.10	1.22	0.41	0.12	<0.01	0.10	2.89	82.0	0.34	100.20	3.38	<0.5	2	18
760434 - 760438		8.22	0.80	1.64	0.49	0.15	<0.01	0.10	2.14	82.5	0.36	99.71	3.23	<0.5	2	23
760439 - 760443		7.64	0.30	2.14	0.52	0.17	<0.01	0.10	0.83	84.9	0.38	99.88	2.81	<0.5	2	28
760444 - 760448		7.84	0.69	2.43	0.67	0.23	<0.01	0.09	1.80	82.6	0.41	100.10	3.21	<0.5	2	33
760449 - 760451		7.75	0.46	11.00	0.72	0.26	0.02	0.09	1.48	73.0	0.42	99.72	4.29	0.5	15	43
760452 - 760456		6.27	1.02	38.9	0.17	0.12	0.04	0.19	4.51	39.8	0.18	99.77	8.01	<0.5	11	107
760457 - 760461		9.29	0.92	6.79	0.31	0.08	0.01	0.12	4.89	71.6	0.34	99.99	5.38	<0.5	2	23
760462 - 760466		7.71	0.79	4.12	0.32	0.08	<0.01	0.09	2.84	79.9	0.33	99.94	3.63	<0.5	1	23
760467 - 760471		8.53	0.52	4.15	0.40	0.12	<0.01	0.09	1.46	80.6	0.35	99.87	3.53	<0.5	2	32
760472 - 760476		9.12	0.32	1.53	0.50	0.15	<0.01	0.11	0.87	83.4	0.42	99.82	3.29	<0.5	1	19
760477 - 760481		8.05	0.19	1.16	0.45	0.14	<0.01	0.10	0.52	86.2	0.39	100.25	2.91	<0.5	1	15
760482 - 760486		8.11	0.49	0.89	0.65	0.22	<0.01	0.12	1.34	84.7	0.42	100.05	2.99	<0.5	2	15
760487 - 760491		10.90	1.27	0.71	0.86	0.33	0.01	0.18	4.97	75.5	0.39	99.98	4.58	<0.5	1	29
760492 - 760496		11.35	0.62	4.68	1.31	0.44	<0.01	0.20	3.15	72.9	0.60	99.99	4.51	<0.5	2	56
760497 - 760500		5.87	0.07	1.80	0.87	0.29	0.01	0.10	0.09	88.4	0.39	99.74	1.79	<0.5	6	27
760501 - 760505		8.61	1.90	10.55	0.94	0.37	0.01	0.18	3.89	67.4	0.39	100.25	5.17	<0.5	4	110
760506 - 760510		6.29	0.95	8.40	0.59	0.25	0.05	0.11	2.51	76.7	0.22	99.57	3.36	<0.5	11	104
760511 - 760515		3.80	0.81	1.98	0.20	0.07	0.05	0.07	2.10	88.7	0.18	99.76	1.69	<0.5	14	36
760516 - 760520		8.23	2.00	4.21	0.39	0.09	0.19	0.11	5.33	75.0	0.30	99.80	3.83	0.5	19	22
760521 - 760525		10.25	1.28	7.27	1.19	0.50	0.02	0.24	1.90	71.6	0.56	99.70	4.59	<0.5	6	57
760526 - 760530		8.24	0.74	4.42	1.10	0.27	0.02	0.12	2.03	78.3	0.49	99.07	3.16	<0.5	6	59
760531 - 760535		6.60	1.00	3.35	0.95	0.31	0.04	0.08	2.55	81.9	0.32	99.85	2.56	<0.5	9	50
760536 - 760540		5.25	1.12	3.08	0.29	0.10	0.14	0.07	2.70	84.6	0.21	100.10	2.43	<0.5	23	23
760541 - 760545		8.05	0.45	5.16	1.76	0.72	0.03	0.17	0.35	79.1	0.39	99.53	2.99	<0.5	6	48
760546 - 760550		6.40	0.50	2.27	1.18	0.46	0.02	0.13	1.10	84.8	0.32	99.72	2.30	<0.5	4	57
760551 - 760555		6.12	0.67	1.44	0.61	0.25	0.02	0.08	1.60	86.2	0.27	99.72	2.36	<0.5	4	29
760556 - 760560		7.77	2.15	2.72	0.38	0.11	0.35	0.08	5.28	76.8	0.31	99.62	3.45	<0.5	37	21
760561 - 760565		7.64	2.88	4.12	0.32	0.25	0.02	0.11	4.03	75.2	0.31	99.52	4.49	<0.5	4	20
760566 - 760570		8.03	1.90	2.18	0.40	0.13	0.01	0.11	4.20	79.0	0.35	99.88	3.44	<0.5	1	15
760571 - 760575		8.37	0.87	4.06	0.52	0.18	0.01	0.12	1.97	79.5	0.38	99.49	3.40	<0.5	1	20
760576 - 760580		7.62	0.58	5.14	0.49	0.16	0.01	0.12	1.62	79.8	0.39	99.32	3.31	<0.5	3	29
760581 - 760585		7.74	1.20	3.64	0.55	0.18	0.01	0.12	3.28	79.3	0.39	99.91	3.38	<0.5	3	37
760586 - 760590		7.77	0.79	2.77	0.76	0.28	0.01	0.09	2.13	81.5	0.40	99.69	3.08	<0.5	2	29
760591 - 760595		8.36	10.35	2.76	1.06	0.40	0.45	0.11	9.30	62.6	0.39	99.48	3.53	1.1	59	44



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		Cu	La	Mn	Mo	Ni	P	Pb	S	Sr	V	Zn	As	Ce	Th	U
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	10	5	1	1	10	2	0.01	1	1	2	0.2	0.01	0.2	0.1
760399 - 760403		37	30	119	<1	16	2510	29	0.01	183	71	35	3.6	67.0	12.4	7.0
760404 - 760408		22	40	28	<1	5	2120	31	0.01	208	66	15	1.6	97.5	16.3	8.1
760409 - 760413		17	20	51	<1	13	1120	11	0.01	82	49	24	3.0	55.5	9.7	7.6
760414 - 760418		90	10	52	1	7	11450	35	0.08	363	60	39	2.8	25.9	4.7	6.7
760419 - 760423		45	10	208	1	39	17500	11	0.07	200	114	91	4.9	31.0	6.9	18.5
760424 - 760728		14	20	22	<1	8	19800	9	0.05	146	27	59	1.4	42.1	8.5	11.5
760429 - 760433		8	20	18	<1	4	11400	8	0.02	122	32	47	1.3	44.4	8.8	11.0
760434 - 760438		10	20	20	<1	4	8260	9	0.01	119	42	33	1.5	49.2	10.0	7.6
760439 - 760443		13	20	21	<1	5	3440	10	0.01	85	52	20	1.6	47.0	9.5	7.1
760444 - 760448		18	20	22	<1	9	7840	10	0.01	188	58	34	1.6	50.0	10.1	8.6
760449 - 760451		66	20	148	<1	58	5910	19	0.01	154	67	368	5.2	60.1	12.6	6.8
760452 - 760456		71	10	274	1	127	18100	8	0.14	192	373	345	18.2	29.7	6.0	30.8
760457 - 760461		21	20	50	<1	11	19400	12	0.08	82	43	56	2.6	50.2	10.8	8.9
760462 - 760466		17	20	24	<1	5	11200	10	0.03	43	66	35	3.7	44.2	9.2	5.6
760467 - 760471		18	20	30	<1	4	6180	8	0.03	37	96	27	3.7	50.9	10.0	5.8
760472 - 760476		7	20	22	<1	2	3670	11	0.02	42	39	17	1.2	52.8	10.6	4.2
760477 - 760481		6	20	18	<1	2	2260	10	0.02	41	27	11	0.8	45.7	9.1	4.6
760482 - 760486		5	20	19	<1	3	4800	10	0.02	91	26	12	0.8	48.5	9.8	5.8
760487 - 760491		57	20	59	<1	2	20500	67	0.03	613	27	70	1.4	89.5	12.4	29.5
760492 - 760496		56	40	42	<1	10	12100	28	0.03	295	90	48	2.5	112.5	18.0	17.2
760497 - 760500		18	20	67	1	10	450	7	0.01	25	44	14	1.9	45.8	10.0	4.9
760501 - 760505		77	40	97	1	27	15600	405	0.28	692	201	105	10.9	65.6	10.0	27.3
760506 - 760510		44	10	334	1	47	10500	53	0.02	151	270	81	4.8	27.4	5.8	17.8
760511 - 760515		14	20	347	<1	12	9020	20	0.03	146	37	28	1.9	30.0	6.3	14.3
760516 - 760520		21	20	1130	<1	44	22000	9	0.02	208	43	172	3.9	43.7	8.7	18.9
760521 - 760525		58	50	119	1	29	8220	25	0.06	432	141	78	7.9	72.8	12.1	17.3
760526 - 760530		40	60	175	<1	19	8490	19	0.01	546	147	42	6.0	80.1	11.8	24.6
760531 - 760535		35	40	245	1	23	10500	323	0.02	397	129	45	3.8	57.3	8.6	25.9
760536 - 760540		28	10	868	1	33	11350	39	0.03	173	49	58	5.1	30.7	6.6	18.8
760541 - 760545		37	40	180	<1	22	1310	12	0.09	163	106	51	4.3	73.0	12.1	9.9
760546 - 760550		27	40	127	<1	12	4670	187	0.06	256	156	32	3.9	51.0	8.5	20.3
760551 - 760555		49	10	145	<1	7	7420	50	0.02	155	75	22	2.7	33.8	7.0	15.2
760556 - 760560		98	20	2050	<1	42	22100	16	0.05	324	40	110	9.8	44.2	9.9	21.9
760561 - 760565		56	20	126	<1	12	17550	12	0.03	192	50	85	3.4	45.1	9.3	7.3
760566 - 760570		30	20	46	<1	7	17100	9	0.03	94	30	73	1.7	46.8	9.5	3.7
760571 - 760575		20	20	56	<1	13	8130	12	0.02	40	43	55	2.0	53.2	10.5	2.5
760576 - 760580		21	20	73	<1	16	6910	11	0.02	48	44	76	2.8	50.6	9.9	2.5
760581 - 760585		16	20	75	<1	11	13650	9	0.01	100	43	88	1.1	46.4	9.2	3.0
760586 - 760590		11	20	42	<1	10	7970	22	0.01	136	38	60	1.2	53.6	10.9	4.5
760591 - 760595		64	30	2420	<1	25	36500	32	0.02	403	72	132	2.3	82.6	13.7	6.9



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CERTIFICATE OF ANALYSIS AS09049479

Sample Description	Method Analyte Units LOR	PUL-QC Pass75um % 0.01
760399 - 760403 760404 - 760408 760409 - 760413 760414 - 760418 760419 - 760423		
760424 - 760728 760429 - 760433 760434 - 760438 760439 - 760443 760444 - 760448		94.8
760449 - 760451 760452 - 760456 760457 - 760461 760462 - 760466 760467 - 760471		
760472 - 760476 760477 - 760481 760482 - 760486 760487 - 760491 760492 - 760496		
760497 - 760500 760501 - 760505 760506 - 760510 760511 - 760515 760516 - 760520		
760521 - 760525 760526 - 760530 760531 - 760535 760536 - 760540 760541 - 760545		
760546 - 760550 760551 - 760555 760556 - 760560 760561 - 760565 760566 - 760570		
760571 - 760575 760576 - 760580 760581 - 760585 760586 - 760590 760591 - 760595		



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CERTIFICATE OF ANALYSIS AS09049479

Sample Description	Method Analyte Units LOR	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-XRF12p	ME-XRF12p	ME-XRF12p
		Al2O3	CaO	Fe2O3	K2O	MgO	MnO2	Na2O	P2O5	SiO2	TiO2	Total	LOI	Cd	Co	Cr
		%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
		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
760596 - 760600		9.33	0.09	2.60	1.57	0.57	0.01	0.09	0.16	81.5	0.49	99.56	3.04	<0.5	4	42
760601 - 760605		6.56	2.28	30.8	0.22	0.18	0.09	0.10	5.02	46.8	0.22	99.81	7.17	<0.5	6	31
760606 - 760610		7.69	1.18	9.51	0.28	0.12	0.03	0.09	3.63	72.3	0.30	99.76	4.44	<0.5	2	17
760611 - 760615		8.10	0.92	2.15	0.39	0.12	0.01	0.08	2.30	81.8	0.36	99.58	3.23	<0.5	2	13
760616 - 760620		9.21	0.92	2.81	0.46	0.15	0.01	0.15	2.57	79.2	0.38	99.65	3.69	<0.5	1	15
760621 - 760625		8.22	0.49	4.64	0.47	0.16	0.01	0.13	1.52	80.0	0.37	99.59	3.47	<0.5	2	27
760626 - 760630		7.53	0.27	2.63	0.54	0.19	0.01	0.12	0.92	83.9	0.39	99.51	2.94	<0.5	1	20
760631 - 760635		8.79	2.19	3.73	0.80	0.31	0.17	0.14	3.44	75.3	0.41	99.23	3.68	<0.5	67	33
760636 - 760640		6.51	21.6	2.86	0.82	0.34	0.64	0.15	17.55	44.4	0.29	98.56	3.10	2.3	148	41
760641 - 760646		8.77	1.02	5.61	2.19	0.61	0.23	0.14	1.00	76.4	0.41	99.66	3.11	0.7	46	45
760647 - 760651		5.26	1.64	32.0	0.34	0.17	0.06	0.06	3.78	48.7	0.20	99.39	6.83	<0.5	9	58
760652 - 760656		6.36	1.34	12.25	0.26	0.13	0.04	0.06	2.96	71.5	0.29	99.80	4.34	<0.5	1	19
760657 - 760661		7.63	0.83	7.73	0.35	0.13	0.03	0.06	2.12	76.2	0.34	99.63	3.99	<0.5	1	14
760662 - 760666		8.44	0.44	4.22	0.41	0.13	0.02	0.07	1.23	80.8	0.38	99.86	3.59	<0.5	2	13
760667 - 760671		8.23	0.35	4.88	0.44	0.13	0.02	0.08	1.15	80.4	0.39	99.78	3.60	<0.5	1	18
760672 - 760676		8.45	0.34	3.46	0.57	0.18	0.01	0.09	1.26	81.6	0.41	99.92	3.43	<0.5	2	20
760677 - 760678		16.65	0.91	4.06	0.58	0.20	0.06	0.24	13.25	52.9	0.32	99.57	10.23	0.7	4	49
760679 - 760683		7.18	1.48	19.25	0.30	0.26	0.04	0.09	3.57	60.7	0.29	99.56	6.13	<0.5	3	32
760684 - 760688		7.33	1.04	12.20	0.30	0.20	0.02	0.11	2.48	70.8	0.33	99.73	4.64	<0.5	1	22
760689 - 760693		8.07	0.55	5.33	0.38	0.16	0.01	0.10	1.44	79.6	0.37	99.98	3.72	<0.5	1	18
760694 - 760698		8.59	0.35	2.79	0.43	0.15	<0.01	0.11	0.94	82.4	0.40	99.83	3.48	<0.5	2	23
760699 - 760703		7.83	0.28	4.72	0.41	0.14	0.01	0.11	0.86	81.6	0.39	99.78	3.30	<0.5	2	27
760704 - 760708		7.11	0.73	18.50	0.45	0.17	0.02	0.13	3.07	63.5	0.30	99.41	5.16	<0.5	6	59
760709 - 760713		10.45	0.96	12.10	1.26	0.49	0.08	0.17	3.52	64.5	0.45	99.50	5.23	<0.5	12	80
760714 - 760718		9.66	0.11	19.90	1.80	0.65	0.11	0.13	0.33	61.1	0.45	99.40	5.02	<0.5	40	62
760719 - 760721		5.33	0.05	6.31	1.45	0.39	0.01	0.10	0.10	83.4	0.35	99.47	1.90	<0.5	6	30
760722 - 760726		8.47	1.88	1.46	0.32	0.12	<0.01	0.13	4.71	78.2	0.32	99.81	4.02	<0.5	3	25
760727 - 760731		8.02	1.20	1.82	0.42	0.14	0.02	0.17	3.31	80.3	0.35	99.30	3.46	<0.5	12	22
760732 - 760736		7.79	2.27	1.83	0.57	0.19	0.01	0.12	3.82	79.4	0.36	99.65	3.20	<0.5	4	21
760737 - 760741		7.95	3.79	1.80	0.63	0.22	0.01	0.15	4.07	77.0	0.38	99.41	3.30	0.5	4	25
760742 - 760746		8.52	2.23	1.76	0.41	0.26	0.01	0.22	3.52	77.5	0.37	100.40	4.63	<0.5	3	31
760747 - 760751		7.95	1.02	1.53	0.41	0.14	0.01	0.18	2.79	81.9	0.34	99.75	3.33	<0.5	2	22
760752 - 760756		7.98	0.77	1.44	0.52	0.18	0.01	0.13	2.09	83.0	0.35	99.81	3.23	<0.5	1	20
760757 - 760761		8.09	0.42	3.07	0.54	0.18	0.01	0.14	1.34	82.5	0.37	100.00	3.24	<0.5	1	28
760762 - 760766		8.93	0.61	1.13	0.78	0.34	0.01	0.44	2.84	80.5	0.24	99.68	3.58	<0.5	4	63
760767 - 760771		8.03	0.99	1.53	0.37	0.15	<0.01	0.16	3.05	81.8	0.25	99.84	3.34	<0.5	4	36
760772 - 760776		7.79	1.46	1.54	0.36	0.10	0.01	0.14	4.15	80.3	0.31	99.74	3.39	0.8	6	30
760777 - 760781		7.03	0.78	1.50	0.41	0.13	<0.01	0.07	2.06	84.5	0.34	99.70	2.77	<0.5	6	17
760782 - 760786		8.36	1.02	1.04	0.56	0.19	<0.01	0.07	2.58	82.3	0.36	99.77	3.19	<0.5	4	19
760787 - 760792		9.11	1.17	1.20	0.64	0.21	<0.01	0.12	3.14	80.0	0.39	99.58	3.50	<0.5	4	23



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CERTIFICATE OF ANALYSIS AS09049479

Sample Description	Method Analyte Units LOR	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
		Cu	La	Mn	Mo	Ni	P	Pb	S	Sr	V	Zn	As	Ce	Th	U
		ppm 1	ppm 10	ppm 5	ppm 1	ppm 1	ppm 10	ppm 2	% 0.01	ppm 1	ppm 1	ppm 2	ppm 0.2	ppm 0.01	ppm 0.2	ppm 0.1
760596 - 760600		25	40	92	<1	12	770	12	0.02	49	72	28	3.4	102.0	15.7	5.7
760601 - 760605		58	20	552	<1	46	21400	10	0.10	298	142	228	10.8	39.3	7.8	23.9
760606 - 760610		23	20	181	<1	11	14900	11	0.06	79	28	59	4.3	42.4	8.4	4.3
760611 - 760615		9	20	48	<1	4	9750	9	0.04	47	27	41	0.9	49.3	9.8	2.4
760616 - 760620		13	20	60	<1	4	10500	10	0.03	42	35	39	1.2	55.2	11.0	3.2
760621 - 760625		25	20	75	<1	7	6390	9	0.02	34	38	47	2.4	47.6	9.5	3.2
760626 - 760630		15	20	57	<1	6	3900	9	0.01	41	34	24	2.2	44.6	8.9	2.6
760631 - 760635		35	20	1040	<1	15	13550	16	0.01	431	42	75	2.0	57.1	11.6	5.9
760636 - 760640		60	20	3730	<1	33	>50000	32	0.04	438	51	153	1.3	60.6	10.8	9.2
760641 - 760646		60	30	1660	<1	46	4450	13	0.04	87	73	110	2.3	79.3	13.1	4.7
760647 - 760651		80	10	405	2	45	15800	9	0.08	360	256	195	16.5	39.6	6.6	32.3
760652 - 760656		32	20	276	<1	11	12300	9	0.08	127	75	73	5.0	42.3	8.3	8.3
760657 - 760661		17	20	194	<1	4	8450	7	0.06	65	47	38	2.3	47.3	9.5	6.0
760662 - 760666		13	20	103	<1	4	5210	10	0.04	57	42	23	1.1	54.6	10.6	5.7
760667 - 760671		20	20	124	<1	4	4910	10	0.02	55	50	26	1.7	49.9	9.8	8.7
760672 - 760676		25	20	48	<1	5	5370	9	0.02	77	52	26	3.0	49.9	10.0	7.5
760677 - 760678		70	20	353	<1	6	>50000	43	0.01	253	79	80	5.4	54.2	9.5	29.6
760679 - 760683		49	20	247	<1	34	14750	13	0.06	231	111	188	11.5	44.3	7.8	17.6
760684 - 760688		22	20	132	<1	6	10100	10	0.07	116	56	48	3.9	45.7	9.2	11.9
760689 - 760693		12	20	61	<1	3	6100	8	0.07	76	43	22	1.7	51.4	10.2	7.8
760694 - 760698		12	20	31	<1	2	3840	10	0.05	68	60	14	1.2	50.6	10.2	8.0
760699 - 760703		19	20	47	<1	7	3670	10	0.03	74	69	32	3.5	50.9	10.0	8.7
760704 - 760708		44	20	123	<1	24	12450	26	0.03	225	88	128	16.3	40.7	7.6	18.9
760709 - 760713		82	30	432	<1	41	14250	36	0.02	487	126	168	11.3	92.1	15.7	20.2
760714 - 760718		35	30	692	1	115	1380	14	0.01	43	189	317	6.6	90.8	13.6	10.1
760719 - 760721		17	20	109	<1	27	470	7	0.02	20	65	43	2.7	51.4	10.0	5.5
760722 - 760726		55	20	37	<1	5	19150	17	0.04	250	34	66	1.5	47.0	10.5	25.3
760727 - 760731		24	20	113	<1	11	13300	8	0.01	76	30	63	0.9	46.9	9.5	5.4
760732 - 760736		11	20	51	<1	8	15350	9	0.01	68	34	67	0.8	50.7	9.8	2.1
760737 - 760741		9	20	60	<1	12	15650	9	0.02	53	38	59	1.7	50.4	9.8	2.4
760742 - 760746		61	20	53	<1	8	14450	13	0.35	180	50	73	3.2	50.0	10.8	14.9
760747 - 760751		28	20	49	<1	6	10900	10	0.03	151	34	55	1.1	45.7	9.2	10.0
760752 - 760756		14	20	47	<1	8	8030	9	0.01	82	30	40	0.9	49.1	9.7	6.3
760757 - 760761		16	20	42	<1	12	5680	10	0.01	79	40	47	1.6	47.9	9.6	8.2
760762 - 760766		350	20	44	<1	3	11650	195	0.07	194	42	67	1.6	38.4	7.3	21.7
760767 - 760771		144	20	37	<1	8	12550	33	0.03	213	40	138	4.0	34.0	7.2	23.9
760772 - 760776		131	20	45	<1	9	16950	15	0.03	302	38	165	4.3	43.6	8.7	14.1
760777 - 760781		22	20	32	<1	13	7940	10	0.01	110	28	83	5.6	43.0	8.5	3.9
760782 - 760786		65	20	27	<1	11	10050	9	0.01	75	24	112	2.4	46.6	9.1	2.8
760787 - 760792		45	20	27	<1	12	12350	10	0.02	89	26	154	2.7	52.5	9.6	4.6



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CERTIFICATE OF ANALYSIS AS09049479

Sample Description	Method Analyte Units LOR	PUL-QC Pass75um % 0.01
760596 - 760600 760601 - 760605 760606 - 760610 760611 - 760615 760616 - 760620		
760621 - 760625 760626 - 760630 760631 - 760635 760636 - 760640 760641 - 760646		94.2
760647 - 760651 760652 - 760656 760657 - 760661 760662 - 760666 760667 - 760671		
760672 - 760676 760677 - 760678 760679 - 760683 760684 - 760688 760689 - 760693		
760694 - 760698 760699 - 760703 760704 - 760708 760709 - 760713 760714 - 760718		
760719 - 760721 760722 - 760726 760727 - 760731 760732 - 760736 760737 - 760741		
760742 - 760746 760747 - 760751 760752 - 760756 760757 - 760761 760762 - 760766		
760767 - 760771 760772 - 760776 760777 - 760781 760782 - 760786 760787 - 760792		



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Sample Description	Method Analyte Units LOR	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-XRF12p	ME-XRF12p	ME-XRF12p
		Al2O3	CaO	Fe2O3	K2O	MgO	MnO2	Na2O	P2O5	SiO2	TiO2	Total	LOI	Cd	Co	Cr
		%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
		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
760793 - 760797		6.04	1.02	2.18	0.32	0.18	0.01	0.12	2.19	84.6	0.25	99.66	2.61	<0.5	3	27
760798 - 760802		10.20	1.38	1.34	0.44	0.13	<0.01	0.59	5.26	75.6	0.34	99.59	4.21	<0.5	3	23
760803 - 760807		7.28	3.54	1.09	0.43	0.12	<0.01	0.22	6.13	76.9	0.33	99.29	3.15	0.5	3	16
760808 - 760812		8.09	1.92	0.75	0.57	0.19	<0.01	0.13	4.07	80.3	0.36	99.71	3.24	<0.5	2	19
760813 - 760817		7.81	2.98	0.84	0.61	0.21	<0.01	0.11	3.75	79.8	0.37	99.52	2.94	<0.5	6	21
760818 - 760823		6.99	2.92	1.42	0.80	0.30	<0.01	0.10	2.91	80.9	0.39	99.46	2.61	0.5	7	21
760824 - 760828		6.31	1.84	10.95	0.68	0.27	0.01	0.25	4.89	69.6	0.26	99.54	4.09	0.6	6	47
760829 - 760833		3.75	0.63	11.35	0.41	0.13	0.01	0.10	2.08	77.8	0.23	99.50	2.82	0.8	9	29
760834 - 760838		6.43	9.08	1.44	0.81	0.24	0.01	0.13	7.50	70.5	0.38	99.35	2.55	0.7	3	46
760839 - 760843		3.97	22.9	0.92	0.59	0.20	0.03	0.13	17.25	50.0	0.22	98.41	1.89	1.5	5	37
760844 - 760848		3.68	19.95	1.96	0.53	0.22	0.04	0.07	15.50	54.7	0.17	98.82	1.83	1.8	8	24
760849 - 760854		4.00	17.55	2.48	0.36	0.13	0.05	0.07	14.45	57.4	0.19	99.02	2.16	1.4	7	17
760855 - 760859		6.50	6.62	3.32	0.68	0.27	0.02	0.12	6.01	71.3	0.36	99.78	3.75	0.5	4	36
760860 - 760864		7.18	2.01	2.26	0.90	0.25	0.01	0.16	2.54	80.4	0.40	99.41	2.93	<0.5	4	45
760865 - 760869		3.64	3.87	19.80	0.54	0.23	0.08	0.07	3.72	63.2	0.17	99.29	3.71	0.6	26	30
760870 - 760873		2.47	9.12	28.7	0.43	0.19	0.23	0.06	7.48	45.3	0.11	98.88	4.62	0.6	37	20
760874 - 760878		5.64	2.08	2.40	0.34	0.23	0.02	0.08	1.44	83.7	0.23	99.63	3.33	<0.5	5	23
760879 - 760883		5.89	5.46	1.40	0.38	0.14	0.01	0.08	5.71	76.9	0.25	99.20	2.80	0.8	4	19
760884 - 760888		6.99	4.47	1.35	0.50	0.18	<0.01	0.09	5.32	77.0	0.32	99.41	2.99	0.6	2	18
760889 - 760893		7.53	3.10	0.69	0.72	0.30	<0.01	0.11	3.06	80.5	0.35	99.28	2.78	<0.5	2	18
760894 - 760898		7.91	3.49	0.82	0.97	0.36	<0.01	0.12	2.82	79.7	0.38	99.45	2.76	<0.5	2	23
760899 - 760903		7.65	1.97	0.81	1.23	0.40	0.01	0.13	1.50	82.8	0.40	99.48	2.48	<0.5	2	21
760904 - 760908		6.94	0.46	6.38	0.57	0.46	0.02	0.21	0.80	79.9	0.25	99.51	3.30	<0.5	7	66
760909 - 760913		5.61	0.47	1.04	0.70	0.36	0.01	0.17	0.93	88.0	0.21	99.78	2.10	<0.5	3	27
760914 - 760918		5.09	6.29	3.97	0.60	0.29	0.02	0.12	5.43	74.9	0.18	99.48	2.38	0.5	8	30
760919 - 760923		2.48	22.8	5.08	0.23	0.12	0.06	0.11	17.20	48.1	0.10	98.74	2.26	1.6	17	19
760924 - 760928		7.29	4.08	11.20	0.69	0.53	0.03	0.23	1.90	66.4	0.23	99.83	6.20	<0.5	10	101
760929 - 760933		5.58	1.02	0.64	0.49	0.23	<0.01	0.14	2.03	87.0	0.16	99.85	2.35	<0.5	1	20
760934 - 760938		4.82	0.96	4.80	0.22	0.14	0.02	0.11	1.88	83.5	0.12	99.58	2.77	<0.5	12	43
760939 - 760943		4.02	11.70	32.1	0.20	0.10	0.09	0.07	10.65	34.0	0.13	99.09	5.76	1.0	43	35
760944 - 760948		6.73	3.13	10.55	0.53	0.18	0.02	0.07	4.60	68.9	0.30	99.26	3.98	<0.5	17	21
760949 - 760953		6.95	2.83	7.18	0.65	0.25	0.02	0.07	4.24	73.2	0.30	99.54	3.60	<0.5	17	19
760954 - 760958		7.78	2.04	3.84	0.82	0.34	0.01	0.07	2.83	78.3	0.37	99.72	3.13	<0.5	8	19
760959 - 760963		7.30	2.06	2.18	0.86	0.38	0.01	0.08	2.19	81.6	0.38	99.92	2.71	<0.5	8	19
760964 - 760968		6.71	1.10	29.0	0.29	0.15	0.04	0.17	3.55	51.2	0.22	99.29	6.60	0.5	19	56
760969 - 760973		5.70	5.22	13.60	0.35	0.11	0.03	0.13	5.31	64.4	0.26	99.26	4.01	0.5	11	21
760974 - 760978		7.24	0.56	2.29	0.60	0.24	0.01	0.09	0.75	84.8	0.34	99.66	2.66	<0.5	4	22
760979 - 760983		8.25	1.62	3.24	0.82	0.35	0.01	0.09	1.50	80.3	0.40	99.80	3.12	<0.5	7	23
760984 - 760988		7.36	2.57	3.55	0.79	0.33	0.01	0.09	2.17	79.3	0.37	99.58	2.94	<0.5	8	24
760989 - 760993		6.82	4.71	4.69	0.84	0.36	0.01	0.08	3.88	74.7	0.36	99.48	2.89	<0.5	8	34



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Project: LUCY CREEK P

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Sample Description	Method Analyte Units LOR	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
		Cu	La	Mn	Mo	Ni	P	Pb	S	Sr	V	Zn	As	Ce	Th
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		1	10	5	1	1	10	2	0.01	1	1	2	0.2	0.01	0.2
760793 - 760797		58	10	51	<1	10	9160	27	0.03	199	39	64	3.2	35.0	8.1
760798 - 760802		78	20	28	<1	9	22200	11	0.01	123	28	120	2.8	48.1	10.6
760803 - 760807		35	20	21	<1	9	26000	10	0.01	184	22	118	2.3	49.6	9.5
760808 - 760812		19	20	23	<1	8	17600	10	0.01	172	22	67	1.4	51.6	10.2
760813 - 760817		20	20	33	<1	10	15700	9	0.01	138	26	65	1.5	46.9	9.5
760818 - 760823		22	20	34	<1	15	11600	10	0.02	112	36	77	2.4	45.1	8.8
760824 - 760828		38	30	74	1	27	19950	325	0.10	307	64	206	11.6	44.4	6.6
760829 - 760833		27	20	69	1	77	8550	32	0.03	182	55	283	18.4	33.3	5.8
760834 - 760838		48	30	43	<1	16	31200	30	0.05	333	79	132	2.2	52.1	8.5
760839 - 760843		26	20	158	<1	14	>50000	117	0.09	192	64	132	1.0	36.4	5.1
760844 - 760848		15	10	243	<1	27	>50000	66	0.04	165	45	182	1.8	21.2	4.1
760849 - 760854		8	10	299	<1	36	>50000	11	0.03	208	31	204	1.8	27.5	5.6
760855 - 760859		24	30	116	<1	28	26600	14	0.30	429	69	110	6.6	49.0	8.5
760860 - 760864		24	40	58	<1	22	11200	38	0.10	479	86	74	8.3	58.3	9.6
760865 - 760869		70	10	549	1	121	16700	61	0.04	166	79	542	12.5	22.2	4.3
760870 - 760873		18	<10	1410	1	129	31600	37	0.04	71	56	510	7.9	12.80	3.0
760874 - 760878		57	10	133	<1	17	6540	24	0.03	262	70	54	2.7	28.1	6.2
760879 - 760883		65	10	52	<1	14	25300	11	0.02	438	68	116	1.7	30.9	6.5
760884 - 760888		20	10	37	<1	17	22300	11	0.01	443	39	143	1.3	32.8	6.4
760889 - 760893		7	20	33	<1	8	12100	9	0.01	268	24	61	0.7	41.1	8.1
760894 - 760898		11	20	34	1	11	11300	10	0.01	127	42	51	1.2	45.4	8.8
760899 - 760903		10	20	42	<1	8	5680	8	0.01	41	33	37	1.3	44.1	9.0
760904 - 760908		38	10	128	1	37	3570	99	0.04	329	76	87	10.9	34.6	7.3
760909 - 760913		26	10	55	<1	7	3690	95	0.02	605	27	20	1.3	26.9	6.1
760914 - 760918		54	10	117	<1	47	23400	36	0.02	475	76	115	5.4	20.8	5.2
760919 - 760923		44	<10	306	1	74	>50000	10	0.04	101	42	203	5.5	14.30	3.0
760924 - 760928		114	20	167	1	80	8180	156	0.32	263	197	333	13.6	35.4	6.4
760929 - 760933		12	10	35	<1	6	8750	66	0.03	690	20	25	0.8	21.4	5.0
760934 - 760938		29	10	118	<1	65	7680	36	0.04	409	61	185	6.4	22.8	5.2
760939 - 760943		92	10	529	2	243	44400	6	0.02	309	93	691	45.7	21.4	4.4
760944 - 760948		62	20	159	1	102	19500	10	0.01	742	74	332	28.5	41.7	8.5
760949 - 760953		22	20	151	<1	71	17900	8	0.01	781	47	329	6.6	44.4	8.8
760954 - 760958		11	20	85	<1	40	11200	9	0.01	456	40	134	3.0	46.1	9.4
760959 - 760963		15	20	71	<1	22	8190	8	0.01	289	38	148	1.3	45.5	9.4
760964 - 760968		66	10	251	1	107	14400	10	0.03	255	105	434	21.5	35.9	8.8
760969 - 760973		14	10	210	<1	47	22800	8	0.02	61	34	224	9.3	38.9	8.2
760974 - 760978		14	20	46	<1	13	3350	9	0.01	69	37	67	3.5	48.1	9.6
760979 - 760983		21	20	74	<1	27	6390	9	0.01	72	47	142	5.2	55.1	11.2
760984 - 760988		27	20	68	<1	35	8660	7	0.01	66	49	175	4.6	45.1	9.3
760989 - 760993		34	10	85	1	45	19500	6	0.01	111	78	157	4.8	40.6	8.2



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CERTIFICATE OF ANALYSIS AS09049479

Sample Description	Method Analyte Units LOR	PUL-QC Pass75um % 0.01
760793 - 760797 760798 - 760802 760803 - 760807 760808 - 760812 760813 - 760817		
760818 - 760823 760824 - 760828 760829 - 760833 760834 - 760838 760839 - 760843		89.8
760844 - 760848 760849 - 760854 760855 - 760859 760860 - 760864 760865 - 760869		
760870 - 760873 760874 - 760878 760879 - 760883 760884 - 760888 760889 - 760893		
760894 - 760898 760899 - 760903 760904 - 760908 760909 - 760913 760914 - 760918		
760919 - 760923 760924 - 760928 760929 - 760933 760934 - 760938 760939 - 760943		
760944 - 760948 760949 - 760953 760954 - 760958 760959 - 760963 760964 - 760968		
760969 - 760973 760974 - 760978 760979 - 760983 760984 - 760988 760989 - 760993		



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Sample Description	Method Analyte Units LOR	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-XRF12p	ME-XRF12p	ME-XRF12p
		Al2O3	CaO	Fe2O3	K2O	MgO	MnO2	Na2O	P2O5	SiO2	TiO2	Total	LOI	Cd	Co	Cr
		%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
		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
760994 - 760998		6.41	5.41	3.00	0.81	0.32	0.01	0.08	4.24	76.2	0.35	99.50	2.55	<0.5	8	24
760999 - 761003		3.30	30.3	2.00	0.34	0.15	0.04	0.05	22.4	37.2	0.15	98.14	2.06	1.9	7	18
761004 - 761008		7.84	13.40	7.73	2.05	0.53	0.07	0.12	10.10	52.9	0.41	98.69	3.33	0.8	71	36
761009 - 761013		7.58	0.20	3.20	2.72	0.57	0.01	0.13	0.20	82.7	0.39	99.67	1.89	<0.5	15	28
761014 - 761016		5.73	0.73	7.59	2.40	0.51	0.05	0.12	0.60	79.8	0.34	99.66	1.72	<0.5	11	21
761072 - 761076		5.99	2.11	7.31	0.40	0.24	0.02	0.09	2.01	77.3	0.28	99.84	3.81	<0.5	8	24
761077 - 761081		7.34	1.26	3.78	0.64	0.25	0.01	0.11	1.87	80.7	0.34	99.75	3.29	<0.5	4	20
761082 - 761086		7.43	1.69	4.59	0.75	0.31	0.01	0.12	1.86	78.1	0.37	98.65	3.26	<0.5	10	24
761087 - 761091		6.93	2.22	4.10	0.74	0.32	0.01	0.12	2.24	79.5	0.36	99.74	3.04	<0.5	10	22
761092 - 761096		6.44	1.56	6.46	0.74	0.33	0.02	0.13	1.54	78.7	0.33	99.60	3.18	<0.5	16	20
761097 - 761102		5.93	9.21	6.63	0.81	0.35	0.04	0.11	7.13	65.5	0.30	99.21	3.06	<0.5	18	28
761103 - 761107		8.42	0.29	4.79	0.40	0.19	0.01	0.14	0.41	81.0	0.32	100.15	3.82	<0.5	8	14
761108 - 761112		11.60	0.54	12.40	0.90	0.40	0.10	0.10	1.40	65.9	0.52	99.64	5.52	<0.5	21	24
761113 - 761117		8.57	0.17	3.59	0.74	0.27	0.06	0.08	0.27	82.5	0.79	100.10	3.00	<0.5	11	26
761118 - 761122		7.49	0.07	3.52	0.72	0.24	0.02	0.07	0.16	84.5	0.36	99.69	2.49	<0.5	2	26
761172 - 761176		7.26	0.71	29.8	0.11	0.40	0.02	0.11	1.00	51.8	0.32	99.23	7.41	<0.5	4	51
761177 - 761181		8.70	0.16	13.25	0.18	0.12	<0.01	0.15	0.27	71.0	0.30	100.05	5.19	<0.5	2	39
761182 - 761186		7.12	0.19	10.95	0.21	0.09	<0.01	0.14	0.50	75.0	0.31	99.47	4.34	<0.5	5	35
761187 - 761191		9.01	0.18	3.35	0.41	0.12	<0.01	0.10	0.45	81.7	0.39	99.94	3.82	<0.5	3	19
761192 - 761196		8.69	0.18	2.26	0.52	0.17	0.01	0.07	0.41	83.6	0.41	99.68	3.21	<0.5	3	15
761197 - 761201		7.79	0.26	1.68	0.69	0.25	0.01	0.06	0.60	85.1	0.38	99.67	2.72	<0.5	4	14
761202 - 761206		8.36	0.95	8.18	0.81	0.34	0.05	0.06	2.52	73.4	0.38	99.43	4.04	<0.5	18	18
761207 - 761212		11.35	0.46	3.90	1.04	0.36	0.02	0.08	1.13	76.4	0.53	99.48	4.04	<0.5	10	37
761213 - 761217		7.77	3.08	15.30	0.33	0.56	0.03	0.19	2.97	60.9	0.29	99.97	7.50	<0.5	9	23
761218 - 761222		8.23	1.34	7.18	0.35	0.29	0.02	0.11	1.94	74.9	0.36	99.56	4.55	<0.5	7	15
761223 - 761227		8.06	0.22	3.40	0.42	0.18	0.02	0.11	0.50	83.2	0.35	99.85	3.26	<0.5	3	12
761228 - 761232		8.88	0.18	2.12	0.50	0.19	0.01	0.11	0.43	83.4	0.43	99.68	3.27	<0.5	3	14
761233 - 761237		8.83	0.14	1.75	0.54	0.19	0.01	0.10	0.34	84.0	0.43	99.64	3.20	<0.5	3	13
761238 - 761242		7.39	0.08	0.87	0.60	0.24	0.01	0.09	0.18	87.0	0.35	99.40	2.51	<0.5	3	11
761243 - 761247		9.79	0.59	7.53	1.07	0.44	0.07	0.12	1.58	73.1	0.51	99.28	4.22	<0.5	20	37
761248 - 761252		11.55	0.16	6.47	1.25	0.48	0.03	0.13	0.42	73.4	0.59	99.22	4.57	<0.5	17	38
761253 - 761255		5.56	0.05	2.75	0.53	0.20	0.02	0.08	0.16	87.8	0.30	99.41	1.92	<0.5	8	19
761256 - 761260		7.87	4.17	3.04	0.52	0.58	0.01	0.13	1.36	72.4	0.36	100.15	6.91	<0.5	5	18
761261 - 761265		7.56	1.30	2.83	0.52	0.71	0.01	0.18	0.84	81.0	0.34	99.68	4.21	<0.5	5	17
761266 - 761270		8.00	0.26	2.68	0.60	0.23	0.01	0.17	0.64	83.3	0.40	99.45	3.07	<0.5	3	19
761271 - 761275		7.67	0.25	1.49	0.71	0.28	0.01	0.14	0.63	85.1	0.40	99.61	2.84	<0.5	3	19
761276 - 761280		7.23	0.50	0.72	0.67	0.26	0.01	0.11	1.30	86.0	0.33	99.81	2.57	<0.5	6	15
761281 - 761285		10.30	1.34	12.85	0.85	0.39	0.11	0.11	3.56	63.5	0.48	99.37	5.55	<0.5	42	33
761286 - 761289		8.98	0.05	2.69	1.01	0.36	0.01	0.10	0.12	82.8	0.44	99.56	2.93	<0.5	4	29
761290 - 761294		8.64	0.55	1.48	0.53	0.32	0.01	0.19	0.53	82.9	0.42	99.76	3.62	<0.5	3	12



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		Cu	La	Mn	Mo	Ni	P	Pb	S	Sr	V	Zn	As	Ce	Th	U
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	10	5	1	1	10	2	0.01	1	1	2	0.2	0.01	0.2	0.1
760994 - 760998		16	20	84	<1	33	16900	10	0.01	69	48	134	3.6	42.7	8.6	4.4
760999 - 761003		24	10	242	1	24	>50000	15	0.03	230	47	280	2.3	22.7	4.4	7.4
761004 - 761008		56	20	423	1	114	43600	32	0.03	169	73	356	4.4	69.7	13.3	7.3
761009 - 761013		20	30	87	<1	47	910	9	0.01	72	42	122	2.6	84.9	12.4	3.5
761014 - 761016		14	30	312	1	32	2360	9	0.01	59	44	79	2.8	98.3	12.4	5.1
761072 - 761076		59	20	140	<1	48	8760	12	0.05	305	68	173	11.1	39.2	8.1	5.4
761077 - 761081		35	20	80	<1	34	8450	9	0.02	310	44	120	5.4	50.9	10.0	3.2
761082 - 761086		34	20	94	<1	51	8530	8	0.02	242	51	169	5.6	51.6	10.3	3.7
761087 - 761091		19	20	95	<1	46	9130	8	0.01	256	42	175	3.8	44.8	8.8	3.1
761092 - 761096		28	20	165	<1	68	6650	7	0.02	163	45	303	4.3	42.6	8.5	3.2
761097 - 761102		64	10	236	40	78	31500	45	0.02	110	69	273	9.2	44.9	8.6	7.0
761103 - 761107		28	20	101	16	22	1880	18	0.12	114	30	40	6.1	45.8	9.2	9.3
761108 - 761112		99	30	624	7	65	6380	52	0.03	370	61	147	16.3	105.5	18.1	40.3
761113 - 761117		16	40	434	9	15	1190	10	0.01	91	40	22	2.5	102.0	18.0	11.0
761118 - 761122		12	30	123	5	9	730	11	0.01	90	41	13	2.6	75.7	12.3	5.8
761172 - 761176		13	30	113	4	9	3930	15	0.06	252	89	18	38.4	65.0	11.9	9.4
761177 - 761181		6	20	20	2	8	1210	11	0.24	286	46	5	15.4	53.7	10.5	3.9
761182 - 761186		7	20	38	2	12	2190	8	0.22	200	45	17	8.3	56.3	9.9	7.1
761187 - 761191		11	20	37	2	9	1930	12	0.13	153	29	20	3.1	54.3	9.9	7.6
761192 - 761196		7	20	43	1	9	1810	10	0.03	119	31	18	2.2	54.1	9.9	7.5
761197 - 761201		6	20	40	2	10	2590	7	0.01	196	27	21	1.9	48.9	9.3	7.5
761202 - 761206		56	20	349	<1	53	11300	44	0.02	710	47	173	16.4	76.5	13.7	22.2
761207 - 761212		33	30	149	<1	31	4790	19	0.01	269	51	66	4.1	90.6	16.4	9.6
761213 - 761217		32	20	227	1	38	13400	11	0.37	340	41	103	19.0	48.3	9.4	24.5
761218 - 761222		23	20	126	<1	26	8650	11	0.08	243	35	54	5.3	53.4	10.7	14.6
761223 - 761227		13	20	115	<1	13	2270	9	0.03	104	33	27	2.8	55.8	10.8	6.1
761228 - 761232		10	30	81	1	11	2000	11	0.02	157	30	27	2.3	59.2	11.6	4.7
761233 - 761237		8	20	79	<1	9	1540	11	0.01	152	27	18	2.9	54.5	10.9	5.7
761238 - 761242		5	20	54	1	5	810	10	0.01	96	20	10	1.1	43.3	8.8	3.9
761243 - 761247		80	30	474	<1	72	6950	46	0.02	595	70	184	17.2	77.2	14.6	17.1
761248 - 761252		82	40	224	<1	63	1950	22	0.01	176	66	103	7.4	93.7	18.2	12.1
761253 - 761255		12	30	148	1	14	730	9	0.01	118	31	22	1.9	102.5	11.5	5.5
761256 - 761260		19	20	83	1	15	6130	10	1.14	527	41	41	3.3	51.8	10.0	5.9
761261 - 761265		23	20	72	<1	18	4070	11	0.05	233	36	41	3.3	54.1	10.5	11.8
761266 - 761270		19	20	67	<1	16	2900	10	0.02	167	35	38	2.9	53.0	10.4	6.9
761271 - 761275		11	20	45	<1	8	2960	9	0.01	186	32	27	1.7	51.3	10.1	4.7
761276 - 761280		6	20	51	<1	5	5040	11	0.01	357	20	16	0.8	44.8	8.9	5.6
761281 - 761285		100	30	694	<1	133	15300	52	0.02	869	71	320	46.1	89.2	16.3	22.5
761286 - 761289		14	30	79	<1	11	590	11	0.01	80	39	19	1.8	86.1	14.8	3.9
761290 - 761294		10	20	88	<1	6	2380	9	0.21	192	20	14	2.1	52.8	10.4	5.9



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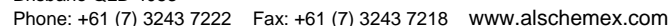
Finalized Date: 23-JUN-2009

Account: NUPRES

Project: LUCY CREEK P

CERTIFICATE OF ANALYSIS AS09049479

Sample Description	Method Analyte Units LOR	PUL-QC Pass75um % 0.01
760994 - 760998 760999 - 761003 761004 - 761008 761009 - 761013 761014 - 761016		
761072 - 761076 761077 - 761081 761082 - 761086 761087 - 761091 761092 - 761096		95.0
761097 - 761102 761103 - 761107 761108 - 761112 761113 - 761117 761118 - 761122		
761172 - 761176 761177 - 761181 761182 - 761186 761187 - 761191 761192 - 761196		
761197 - 761201 761202 - 761206 761207 - 761212 761213 - 761217 761218 - 761222		
761223 - 761227 761228 - 761232 761233 - 761237 761238 - 761242 761243 - 761247		
761248 - 761252 761253 - 761255 761256 - 761260 761261 - 761265 761266 - 761270		
761271 - 761275 761276 - 761280 761281 - 761285 761286 - 761289 761290 - 761294		



Sample Description	Method Analyte Units LOR	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
		Al2O3	CaO	Fe2O3	K2O	MgO	MnO2	Na2O	P2O5	SiO2	TiO2	Total	LOI	Cd	Co	Cr
		%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
		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
761295 - 761299		8.18	0.12	1.14	0.68	0.29	0.01	0.20	0.25	84.7	0.42	99.22	3.11	<0.5	5	15
761300 - 761304		7.50	0.80	7.37	0.62	0.33	0.08	0.17	1.64	76.2	0.36	99.25	3.92	<0.5	23	23
761305 - 761309		11.70	0.15	4.67	1.31	0.50	0.02	0.26	0.31	75.2	0.60	99.33	4.43	<0.5	12	40
761310 - 761315		5.31	0.07	3.56	0.55	0.22	0.02	0.13	0.14	87.2	0.35	99.54	1.93	<0.5	7	17
761316 - 761320		8.36	0.50	8.12	0.52	0.40	0.02	0.21	0.85	75.4	0.35	99.30	4.27	<0.5	12	40
761321 - 761325		7.91	0.23	0.67	0.84	0.39	<0.01	0.18	0.31	85.5	0.39	99.35	2.83	<0.5	4	16
761326 - 761330		6.84	0.21	1.74	0.55	0.24	0.01	0.14	0.49	86.1	0.31	99.39	2.66	<0.5	5	11
761331 - 761335		9.95	0.20	6.36	1.08	0.45	0.08	0.19	0.58	75.7	0.54	99.41	4.11	<0.5	21	25
761336 - 761340		9.12	0.05	2.93	0.92	0.32	0.01	0.16	0.19	82.1	0.50	99.50	3.10	<0.5	4	28
761341 - 761345		7.73	0.65	2.75	0.77	0.45	0.02	0.26	0.61	81.9	0.38	99.97	3.72	<0.5	4	22
761346 - 761350		7.13	0.46	0.89	0.68	0.29	0.01	0.18	1.10	85.7	0.33	99.63	2.65	<0.5	2	16
761351 - 761355		10.25	0.70	6.69	1.40	0.60	0.06	0.19	1.48	72.9	0.56	99.38	4.25	<0.5	23	35
761356 - 761360		11.75	0.09	2.27	1.26	0.41	0.01	0.20	0.18	78.1	0.64	99.09	4.08	<0.5	3	32
761381 - 761382		5.45	0.12	1.78	1.63	0.24	0.03	0.15	0.21	87.7	0.44	99.28	1.45	<0.5	10	16
761383 - 761387		7.87	2.45	4.59	0.93	0.52	0.01	0.20	1.70	76.7	0.37	99.69	3.96	<0.5	9	42
761388 - 761392		3.24	41.7	0.46	0.52	0.25	0.03	0.12	30.6	18.10	0.14	97.67	2.26	2.9	5	20
761393 - 761397		7.54	17.00	4.57	1.35	0.48	0.02	0.18	12.85	50.8	0.37	98.87	3.45	1.1	10	36
761398 - 761401		8.55	1.36	2.94	2.07	0.56	0.02	0.18	1.08	79.4	0.45	99.27	2.56	<0.5	6	33
761402 - 761406		12.20	1.63	6.79	1.09	0.47	0.01	0.20	1.43	68.1	0.50	100.65	6.55	<0.5	3	40
761407 - 761411		9.42	0.30	2.26	0.80	0.28	0.01	0.17	0.75	81.2	0.37	99.60	3.63	<0.5	17	25
761412 - 761416		13.30	0.82	3.14	1.41	0.59	0.01	0.25	2.17	71.6	0.55	99.17	5.09	<0.5	4	42
761417 - 761418		4.95	0.08	0.68	0.33	0.16	<0.01	0.10	0.18	90.8	0.11	99.33	1.87	<0.5	3	9
761419 - 761423		10.25	0.90	0.64	1.09	0.43	<0.01	0.40	3.92	77.0	0.44	99.20	3.99	<0.5	2	28
761424 - 761428		12.75	0.80	1.84	1.35	0.52	0.01	0.43	4.97	71.4	0.49	99.57	4.83	<0.5	4	45
761429 - 761432		8.60	0.16	1.94	1.30	0.47	0.01	0.13	0.34	83.0	0.37	99.33	2.92	<0.5	21	32
761433 - 761436		8.62	0.58	3.85	1.09	0.47	0.03	0.23	0.83	79.7	0.37	99.52	3.19	<0.5	5	38
761674 - 761678		7.28	2.81	0.92	0.35	0.17	0.01	0.07	5.26	78.3	0.30	99.65	3.76	<0.5	3	16
761679 - 761683		8.17	2.03	1.25	0.41	0.13	0.01	0.10	4.99	78.4	0.38	99.59	3.52	<0.5	3	17
761684 - 761688		8.20	1.78	0.94	0.62	0.66	0.02	0.16	2.07	80.6	0.35	100.05	4.43	<0.5	6	19
761689 - 761693		8.05	1.70	1.30	0.73	0.90	0.01	0.14	1.14	80.6	0.38	99.33	4.26	<0.5	4	19
761694 - 761698		7.34	2.53	2.37	0.71	0.49	0.08	0.12	2.05	80.0	0.38	99.38	3.17	0.5	17	21
761699 - 761703		7.89	2.00	4.82	0.96	0.42	0.09	0.11	1.86	77.7	0.43	99.55	3.14	<0.5	32	24
761704 - 761708		7.08	1.60	1.28	0.98	0.41	0.05	0.10	1.38	83.6	0.38	99.30	2.38	<0.5	16	16
761709 - 761713		6.12	2.74	0.99	0.57	0.25	0.02	0.06	3.56	82.4	0.23	99.37	2.31	<0.5	6	11



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Project: LUCY CREEK P

CERTIFICATE OF ANALYSIS AS09049479

Sample Description	Method Analyte Units LOR	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
		Cu	La	Mn	Mo	Ni	P	Pb	S	Sr	V	Zn	As	Ce	Th	U
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	10	5	1	1	10	2	0.01	1	1	2	0.2	0.01	0.2	0.1
761295 - 761299		7	20	77	<1	5	1090	10	0.02	133	21	12	1.0	52.7	10.3	5.4
761300 - 761304		76	20	499	<1	90	7400	43	0.02	538	47	159	11.6	65.3	12.2	31.2
761305 - 761309		44	40	173	<1	59	1410	22	0.03	167	62	75	5.2	93.2	18.5	17.1
761310 - 761315		12	30	138	1	18	610	10	0.01	88	34	26	2.2	95.0	11.4	5.7
761316 - 761320		19	20	146	<1	22	3880	17	0.08	253	98	52	9.2	57.2	9.9	11.8
761321 - 761325		9	20	35	1	9	1410	26	0.02	119	22	20	1.0	47.7	9.4	2.6
761326 - 761330		14	20	102	<1	15	2330	18	0.01	165	24	35	2.9	48.0	10.0	5.6
761331 - 761335		48	30	505	<1	64	2680	44	0.01	190	61	152	13.1	95.0	18.5	12.0
761336 - 761340		14	40	83	<1	15	870	13	0.01	121	42	30	1.5	113.5	16.9	6.3
761341 - 761345		19	20	115	<1	12	2790	11	0.28	137	60	29	6.9	50.2	9.6	6.2
761346 - 761350		9	20	51	<1	5	4910	14	0.03	555	28	14	1.8	46.7	9.9	12.0
761351 - 761355		89	40	396	1	77	6600	74	0.02	405	92	150	15.1	126.5	20.4	26.4
761356 - 761360		14	40	88	<1	9	890	16	0.01	134	46	15	1.7	108.5	18.7	5.6
761381 - 761382		33	20	185	<1	22	930	29	0.01	170	43	31	2.1	83.1	10.7	8.5
761383 - 761387		39	20	97	<1	52	7540	15	0.12	150	88	146	5.5	48.4	9.3	6.3
761388 - 761392		9	<10	190	1	7	>50000	38	0.06	447	28	219	<0.2	33.6	5.0	16.8
761393 - 761397		47	20	113	1	64	>50000	29	0.04	470	72	296	4.7	72.1	13.2	13.8
761398 - 761401		18	30	124	<1	15	4990	11	0.01	130	53	57	1.9	83.8	13.7	4.6
761402 - 761406		47	30	67	<1	14	6360	19	0.69	282	67	46	6.5	79.3	15.2	8.8
761407 - 761411		129	30	75	<1	28	3530	12	0.10	629	51	43	13.6	97.7	13.3	21.6
761412 - 761416		185	30	56	<1	15	9600	19	0.05	202	72	52	5.8	81.9	16.1	10.8
761417 - 761418		14	20	29	<1	4	900	9	0.02	184	17	9	1.8	82.3	7.2	9.7
761419 - 761423		24	30	29	<1	4	16600	81	0.03	144	25	27	1.3	87.6	14.4	22.4
761424 - 761428		39	40	60	<1	8	22700	46	0.02	250	55	38	2.4	95.6	16.6	18.7
761429 - 761432		40	30	94	<1	13	1720	11	0.02	97	53	23	3.6	79.7	12.8	7.6
761433 - 761436		22	30	167	<1	11	3930	12	0.22	109	62	21	4.2	80.2	12.1	7.8
761674 - 761678		43	20	56	<1	5	25600	19	0.15	515	26	117	2.3	45.1	10.3	23.4
761679 - 761683		57	30	67	1	11	24300	11	0.05	312	31	139	2.9	61.1	12.8	17.2
761684 - 761688		43	20	136	<1	13	9050	10	0.05	219	43	70	2.9	53.1	10.7	12.2
761689 - 761693		18	20	113	<1	14	4910	9	0.02	167	42	76	2.4	60.5	11.9	5.9
761694 - 761698		10	20	585	<1	33	9170	8	0.01	109	41	147	4.4	50.4	9.9	3.6
761699 - 761703		6	20	624	1	88	8910	11	0.01	85	55	276	10.0	52.5	10.4	3.0
761704 - 761708		8	20	335	<1	27	5940	7	0.01	72	39	79	2.9	50.1	9.8	2.8
761709 - 761713		13	10	125	<1	21	17000	16	0.01	217	23	86	3.5	37.3	7.5	4.8



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Project: LUCY CREEK P

CERTIFICATE OF ANALYSIS AS09049479

Sample Description	Method Analyte Units LOR	PUL-QC Pass75um % 0.01
761295 - 761299 761300 - 761304 761305 - 761309 761310 - 761315 761316 - 761320		
761321 - 761325 761326 - 761330 761331 - 761335 761336 - 761340 761341 - 761345		99.8
761346 - 761350 761351 - 761355 761356 - 761360 761381 - 761382 761383 - 761387		
761388 - 761392 761393 - 761397 761398 - 761401 761402 - 761406 761407 - 761411		
761412 - 761416 761417 - 761418 761419 - 761423 761424 - 761428 761429 - 761432		
761433 - 761436 761674 - 761678 761679 - 761683 761684 - 761688 761689 - 761693		
761694 - 761698 761699 - 761703 761704 - 761708 761709 - 761713		